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RESam

RESEARCH INSTITUTE IN ECONOMICS & ECONOMETRICS AMSTERDAM



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THE RESEARCH PROGRAMMES

CHAPTER 1: UvA-ECONOMETRICS

<i>Programme director:</i>	<i>Prof. dr J.F. Kiviet</i>
<i>Department:</i>	<i>Quantitative Economics (KE)</i>
<i>METIS-code:</i>	<i>uva/fee/res/eem/prog</i>
<i>JEL-classification:</i>	<i>C1, C2, C3, C4, C5</i>
<i>Web-addresses:</i>	<i>www.ase.uva.nl/ke/UvA-Econometrics</i>
<i>Starting Date:</i>	<i>1997</i>
<i>VSNU-scores 2001-2007:</i>	<i>Quality: 4, Productivity: 4, Relevance: 3.5, Viability: 3.5</i>

1.1 MEMBERS OF THE RESEARCH GROUP AND RESEARCH IN FTES

<i>Name</i>	<i>Title</i>	<i>Function</i>	<i>Total 2006</i>	<i>Total 2007</i>	<i>Total 2008</i>	<i>Total 2009</i>	<i>Dept.</i>	<i>Funding</i>
Ariza Rojas, C.	msc	phd	0,60	0,60	0,50	-	KE	1
Ariza Rojas, C.	msc	oz	-	-	0,10	0,50	KE	1
Bethlehem, J.G	prof dr	hgl	0,11	0,11	0,11	0,11	KE	1
Boswijk, H.P	prof dr	hgl	-	0,10	0,10	0,10	KE	3
Boswijk, H.P	prof dr	hgl	0,50	0,50	0,50	0,50	KE	1
Broda, S.A.	dr	ud	-	-	-	0,17	KE	1
Bun, M.	dr	ud	0,50	-	-	-	KE	2
Bun, M.	dr	ud	-	0,50	0,50	0,50	KE	1
Cheng, Y.	msc	phd	0,60	0,10	-	-	KE	1
Cramer, J.S.	prof dr	hgl	0,00	0,00	0,00	0,00	KE	1
Gao, Z.	msc	phd	0,20	0,60	0,60	0,60	KE	1
Garderen, K.J. van	dr	uhd	0,50	0,50	0,50	0,50	KE	1
Giersbergen, N.P.A. van	dr	ud	0,48	0,42	0,42	0,42	KE	1
Gooijer, J.G. de	prof dr	hgl	0,50	0,50	0,50	0,50	KE	1
Kiviet, J.F.	prof dr	hgl	0,50	0,50	0,50	0,50	KE	1
Kleibergen, F.R.	dr	uhd	0,00	0,00	0,00	0,00	KE	1
Klein, A.A.B.	dr	ud	0,50	0,50	0,50	0,50	KE	1
Martellosio, F.	dr	postdoc	0,45	-	-	-	KE	2
Niemczyk, J.	msc	phd	0,60	0,50	-	-	KE	1
Oomen, R.C.A.	dr	guest	0,00	0,00	0,00	0,00	KE	1
Ophem, J.C.M. van	dr	uhd	0,00	0,00	0,20	0,50	KE	1
Parente, P.	dr	postdoc	0,30	0,80	0,40	-	KE	1
Stakenas, P.	msc	phd	-	0,20	0,60	0,60	KE	1
Wansbeek, T.J.	prof dr	hgl	-	0,01	0,01	0,01	MH	1
Zu, Y.	msc	phd	0,20	0,60	0,60	0,60	KE	1
Total 1st flow of funds			5,59	6,94	6,54	6,51		
Total 2nd flow of funds			0,97	0,00	0,00	0,00		
Total 3rd flow of funds			0,00	0,10	0,10	0,10		
Total 1st f.o.f. excl. Ph.D.'s			3,39	4,34	4,24	4,71		
Total 1st-3rd flow of funds			6,56	7,04	6,64	6,61		
Ph.D. students			2,20	2,60	2,30	1,80		

1.2 PROGRAMME DESIGN

Objectives

Assessment and enhancement of the accuracy, efficiency and robustness of econometric inference obtained from finite sets of empirical data by models which may be dynamic, non-linear, not fully parametric, and nonetheless misspecified. Separate attention is being paid to cases where the data are discrete or truncated, stationary or non-stationary, trended and/or seasonal, and where they pertain to a cross-section, a set of discrete time-series, or a panel.

Motivation

Empirical economic data are usually not obtained from markets or agents in static equilibrium, but they give a random and disturbed indication at a certain moment in time, or over a relatively short period, of a dynamic adjustment process. Also they usually concern just a few aspects of the underlying mostly very complex linear or non-linear economic system, and sample sizes are often rather small. The various projects united in this programme all try to gear statistical techniques to the typical characteristics of particular relevant empirical economic relationships and corresponding observed data in the interest of accurate and efficient inference. The goal is to obtain a proper interpretation of the essentials of the analysed phenomena in order to test economic theory, to support decision making and for forecasting purposes.

Techniques

Both analytic and experimental methods are used in this programme to improve understanding of the available econometric or statistical inference techniques, and to develop and test alternatives. The analytic aspects often involve the derivation (possibly using computer algebra systems) of asymptotic distributions, the approximation of finite sample moments or distribution functions, the elimination of nuisance parameters etc. In computer simulations of completely specified systems the existing standard procedures and the newly developed techniques are then compared and evaluated experimentally. Occasionally the alternative techniques as such are of an experimental nature, because they involve computer-intensive methods (bootstrap resampling, randomization techniques, simulation-based inference). Actual data often serve to illustrate the empirical relevance and practical usefulness of the theoretical findings, but at times empirical issues are the prime motivation of the research projects engaged in.

Applications

The fundamental problems of econometrics indicated above are studied in an interplay with actual applied econometric research. These applications come from both macro and micro economics or business and finance. Aggregate demand (the consumption function) but also demand systems, monetary relationships (demand for money, interest rates) but also data from marketing activities and financial markets (stock returns, credit risk) are studied or provide prototypical examples for exercises in econometric theory on modelling and analysing dynamic relationships, focusing on various aspects such as dynamic or functional misspecification, order of integration, cointegration, exogeneity, seasonality, structural change in parameter values, stochastic volatility, approximation errors in inference due to finite sample sizes, etc. The economic behaviour of individual agents is analysed on the basis of cross-section data (wage determination, job mobility and allocation), duration data (on unemployment) and panel, longitudinal or spatial data (budget survey analysis, analysis of treatment effect such as training).

Subprogrammes, themes

The programme is not a collection of separate clearly demarcated sub-programmes, though within the general theme described above, the following four intertwined sub-themes can be distinguished: *accurate inference in finite samples*. Within this theme, analytical finite sample approximations, Bayesian inference, simulation-based inference, inference based on GMM with weak instruments, conditional inference, and methods from differential geometry are studied for (and applied in) models that may be dynamic, simultaneous, non-linear or non-standard in another way. *analysis of non-stationary data*. This leads to the analysis of unit roots, cointegration and error correction models, the role of (weak) exogeneity in such models, the development of robust two-step procedures,

the analysis of non-stationary seasonal and periodic models, and non-stationary models for processes in finance and marketing.

model selection and model comparison. Within this theme, both linear and non-linear models are considered, nested or non-nested, often with an emphasis on time series. Relevant topics are information criteria and entropy measures, the Fisher information matrix, model inference, and space-time modelling of socio-economic data.

econometrics of financial markets. Topics are ARCH and stochastic volatility models, the econometrics of the CAPM and factor models, econometric analysis of credit risk, the analysis of option data and implied volatilities, and the analysis of high-frequency data and realized volatility.

In addition there are various *miscellanea*, including work on poverty measures, on discrete data, on latent variables, on non-response, and on historical aspects of statistics and econometrics.

The major research themes by individual are as follows:

Jelke Bethlehem's major research is on the quality of data collected by means of surveys, in particular web-surveys, with special emphasis on non-response adjustment techniques and development of new methods to reduce the bias of estimates due to under-coverage and self-selection of respondents.

Peter Boswijk's research is in the econometric analysis of financial time series, in particular investigating efficient inference procedures for unit roots and cointegration and the effects of volatility clustering and heavy tails in financial data. He also works on nonparametric volatility estimation, and on multivariate GARCH modelling.

Simon Broda's research is focussed on the application of uniform asymptotic expansions to econometric problems. Other topics include time series econometrics, in particular univariate and multivariate GARCH modelling, and bias correction in dynamic models.

Maurice Bun runs research projects that entail the analysis of the so-called weak instrument problem for IV and GMM inference methods in dynamic panel data models, development of bias-corrected estimation procedures for dynamic panel data models, empirical analysis of the determinants of international trade, and empirical analysis of the effect of targeted marketing activities on customer profitability.

Kees Jan van Garderen studies the effects of curvature and small samples on estimation and inference in econometric models, requiring investigation of conditional inference using differential geometry and higher order approximation techniques such as Edgeworth and Saddlepoint expansions. His further research topics include the improvement of inference for income inequality measures, aggregation and forecasting in nonstationary and nonlinear models, and the effects of weak instruments.

Noud van Giersbergen examines methods to improve finite-sample inference in dynamic regression models. These methods can range from computer intensive techniques, such as bootstrap or other resampling methods, to analytical methods, such as bias correction and Bartlett corrections. Regarding empirical research he takes a special interest in analyzing the valuation of IPO (Initial Public Offerings) data.

Jan de Gooijer works on non-linear time-series analysis and forecasting techniques. Recently he developed a general test statistic for detecting change-points in multidimensional stochastic processes with unknown parameters, and he studied a class of regression models in which the mean function is specified parametrically, as in the existing regression methods, but the residual distribution is modeled non-parametrically by a kernel estimator without imposing any assumption on its distribution.

Jan Kiviet's current research is focused on three themes, viz. characterizing the salient features of the limiting and finite sample distributions of estimators that exploit possibly invalid and weak instruments; analyzing the joint effects of weighting matrices and instrument weakness in GMM estimators for dynamic panel data models; and establishing an impartial methodology for comparing alternative inference techniques by Monte Carlo simulation.

Frank Kleibergen's research is focused on the development of classical and Bayesian inferential procedures that are reliable in small samples for generalized method of moments, linear instrumental variables regression and linear risk factor models.

Andre Klein works mainly on problems related to establishing expressions for the Fisher Information matrix in time-series models.

Hans van Ophem's research is on the development and application of microeconomic estimation techniques for labour market and health economics issues. His work focuses on the investigation of selectivity models in non-linear econometrics.

The PhD candidates work on the following projects:

Cesar Ariza Rojas (supervised by Kees Jan van Garderen) studies the class of models belonging to the curved exponential family, in which the dimension of the minimal sufficient statistics is larger than the number of parameters to be estimated. Given the appropriate exact or almost exact ancillary statistic the conditional density of a parameter of interest can be computed or approximated and the consequences of conditioning for inference investigated.

Zhengyuan Gao (supervised by Kees Jan van Garderen) works on modified estimation approaches within the class of semiparametric likelihood methods and applies the estimation method to microeconometrics. The asymptotic properties and computation algorithms of relevant estimators and tests will be explored.

Paulius Stakenas (supervised by Peter Boswijk) works on econometric methods for long-memory and fractional cointegration in financial time series, with particular emphasis on fractional cointegration testing in Gaussian vector autoregressive models, and on the relation between long memory and structural change, applied to interest rate modelling.

Yang Zu (supervised by Peter Boswijk) examines the time-varying properties of financial volatility and correlation, with particular emphasis on non-parametric filtering of continuous-time volatility processes from high-frequency data with market micro-structure noise. In addition, he studies the effect of nonstationary volatility and correlation on cointegration testing.

Visiting scholar:

Vasilis Sarafidis (University of Sydney) did spend half a year (January-July, 2009) of his sabbatical in our group. Various members embarked on joint research projects with him in the area of panel data econometrics.

1.3 PROGRAMME EVALUATION

The size of UvA-Econometrics has just the minimal critical mass required to maintain a stimulating research environment. Almost weekly a Friday afternoon (mostly external but occasionally internal) seminar is organized at (and funded by) the Tinbergen Institute jointly with econometricians from Free University Amsterdam. In addition to that we will in 2010 also organize a (bi-)weekly internal workshop on Thursdays at lunch time. The latter should stimulate the coherence of the research programme and might hopefully lead to more joint research projects. All activities and achievements of UvA-Econometrics are communicated via its website www.ase.uva.nl/ke/UvA-Econometrics from which UvA-Econometrics discussion papers (with corporate identity cover page) can be downloaded.

It is the ambition of UvA-Econometrics to find further international recognition as one of the major strongholds in theoretical econometrics worldwide. The activities and achievements over the last decade (number and quality of publications, presentations at and invitations for international meetings, responsibilities regarding journals and conferences, hosting of visiting scholars, exposure at peer institutions, etc.) have been substantial, but leave ample room for further qualitative and quantitative improvements. Most individual members of UvA-Econometrics continue to operate in intensive formal and informal national and international networks.

Since six years policy within FEB-UvA and the Tinbergen Institute obstructed structural inflow (via 1e geldstroom) of qualified Ph.D. candidates that obtained an MSc in econometrics or quantitative economics from UvA, or from other Dutch or foreign universities. Due to the occasional circumstance that the Tinbergen Institute's M.Phil. programme (which has no focus on econometric theory) generated too few able Ph.D. candidates during the last few years we were allowed (but usually at a very late stage, just before September) to fill open places with candidates which received a master from UvA, Brussels, Manchester, Southampton and Tilburg respectively. There they received a training in quantitative economics and econometrics that suits their specific needs better than (especially the first year of) the TI M.Phil. would do. However, there are some signs that this policy might be liberalized.

The above explains why it has been almost impossible over the last five years for students from our own MSc program to start as a PhD student in econometrics. It also provides one of the motivations for some of our best BSc students to not enter our MSc but leave UvA and pursue their studies abroad. Nevertheless, although our MSc program prepares for a career as a researcher, we note that only few of our MSc students actually show both ambition and talent to embark on academic research in a PhD project. We should try to change this for the better, perhaps by making our courses a little bit more research oriented. Both in the 3rd year of the BSc in Econometrics and Operations Research and in the one year program of the MSc Econometrics a substantial number of students is enthusiastic about their field and its research opportunities as can be seen for instance from the quality of the student journal AENORM and the various activities (excursions, conferences) that they organize, and most notably from the annual international student competition Econometric Game, which is unique and receives worldwide recognition.

For various years UvA-Econometrics has not been very successful in generating new externally funded projects (although we will participate in a new NWO-MAGW open competition project). One of the main reasons for this may be that the outside world (especially within the Netherlands as it seems) is no longer convinced that econometric theory and its applications, although by nature multi-disciplinary and a fundamental and often indispensable tool in economics, qualifies as innovative, promising and fashionable. Perhaps the group and its individual members should consider seriously whether in the years to come the main emphasis of the research themes (which is theory) should be redirected and whether cooperation with applied researchers should be intensified.

Over the past decade it hardly ever occurred that the members of UvA-Econometrics organized a meeting in order to discuss general matters of joint interest. It has been decided now that every year in January, after the annual report has been prepared, there will be a meeting at which the individual research plans will be discussed jointly. All members with more than 0.2 fte research time will prepare for that meeting a short overview listing current and planned research projects and papers, and any suggestions regarding relevant more general issues and activities regarding research. Hopefully this explicit planning and internal discussion will stimulate overall and individual quality, productivity, relevance and viability of the research efforts.

The above evaluation can be summarized in the following **SWOT** analysis regarding the activities and current position of UvA-Econometrics:

Strengths: good reputation, a relatively steady stream of A and B publications, quality of human capital, expertise in a broad range of cutting edge areas of econometric (and statistical) theory, coherence of and atmosphere within the group, active seminar and workshop series, exposure via own discussion paper series, tight but appropriate facilities regarding computing and travel.

Weaknesses: few links with practitioners, few ties with other units of FEB outside QE department, relatively little external funding, obstructed and rather ad-hoc entry into Ph.D. program, a slight tendency towards a less favourable balance than 50/50 between A and B publications.

Opportunities: development of an MPhil in econometrics, a one year graduate program for students with an MSc in Econometrics (or equivalent), developing a more applied profile within ASE and with the ABS, improving the research content of our BSc and MSc programs and stimulating an increased inflow from talented foreign students.

Threats: rather few of our current MSc Econometrics students show ambitions towards the Ph.D. program, research input by senior staff slipping towards less than 50% of their total labour input.

1.4 RESOURCES AND FUNDING

The current facilities allow the active researchers (and also first and second year Ph.D. students) to attend at least one international conference per year.

1.5 OUTPUT

Key publications

- Bethlehem, J.G. (2009), *Applied Survey Methods – A Statistical Perspective*. John Wiley & Sons, Hoboken, NJ, USA. [A]
- Bun, M.J.G., Kiviet, J.F. (2006). The Effects of Dynamic Feedbacks on LS and MM Estimator Accuracy in Panel Data Models. *Journal of Econometrics*, 132, 409-444. [A]
- Giersbergen, N.P.A. van (2009). Bartlett correction in the stable AR(1) model with intercept and trend. *Econometric Theory* 25, 857-872. [A]
- Kleibergen, F., Mavroudis, S. (2009). Weak instrument robust tests in GMM and the new Keynesian Phillips curve. *Journal of Business and Economic Statistics* 27, 293-311. [A]
- Klein, A., Spreij, P. (2009). Matrix differential calculus applied to multiple stationary time series and an extended Whittle formula for information matrices. *Linear Algebra and its Applications* 430, 674-691. [A]
- Schluter, C., van Garderen, K.J. (2009). Edgeworth expansions and normalizing transforms for inequality measures. *Journal of Econometrics* 150, 16-29. [A]

Forthcoming

- Bethlehem, J.G., Cobben, F., Schouten, B. (2010). *Handbook on Nonresponse in Household Surveys*. John Wiley & Sons, Hoboken, NJ, US. [A]
- Boswijk, H.P., Franses, Ph.H., Dijk, D. van (2010). Cointegration in a historical perspective. *Journal of Econometrics*. [A]
- Boswijk, H.P. (2010). Nuisance parameter free inference on cointegration parameters in the presence of a variance shift. *Economics Letters*. [B]
- Boswijk, H.P., Griffioen, G.A.W., Hommes, C.H. (2010). Success and failure of technical trading strategies in the cocoa futures market. In: Kyrtsov, C. (ed.), *Progress in Financial Markets Research*. New York: Nova Publishers. [C]
- Bun, M.J.G., F. Windmeijer (2010). The weak instrument problem of the system GMM estimator in dynamic panel data models. *Econometrics Journal*. [B]
- Cramer, J.S., Lumey, L.H. (2010). Maternal preconception diet and the sex ratio. *Human Biology* 82 (1). [C]
- Gatheral, J., Oomen, R.C.A. (2010). Zero-intelligence realized variance estimation. *Finance and Stochastics*. [C]
- Griffin, J.E., Oomen, R.C.A. (2010). Covariance measurement in the presence of non-synchronous trading and market microstructure noise. *Journal of Econometrics*. [A]
- Klein, A., Spreij, P. (2010). Tensor Sylvester matrices and the Fisher information matrix of VARMAX processes. *Linear Algebra and its Applications*. [A]
- Oomen, R.C.A. (2010). High dimensional covariance forecasting for short intra-day horizons. *Quantitative Finance*. [B]

Publications in numbers

<i>UvA-Econometrics</i>				2009
1) Academic publications	a) in refereed journals	A	6	13
		B	2	
		C	5	
	b) in other journals			2
	c) book chapters	A	1	1
		B	-	
		C	-	
		Other	-	
	d) in proceedings	Other		-
Total				16
2) Monographs		A	-	0
		B	-	
		C	-	
3) Ph.D. theses				2
4) Professional publications				-
5) Popular publications				-
6) Working papers				16
Total				34

Dissertations

- Cobben, F. (2009, 2 October), *Nonresponse in sample surveys: Methods for analysis and adjustment*. [promotor prof.dr. J.G. Bethlehem, co-promotor prof.dr.ir. J.G. de Gooijer].
- Niemczyk, J. (2009, 13 October). *Consequences and detection of invalid exogeneity conditions*. [promotor prof.dr. J.F. Kiviet].

Academic publications (excluding publications in/of books) – refereed

A

- Giersbergen, N.P.A. van (2009). Bartlett correction in the stable AR(1) model with intercept and trend. *Econometric Theory* 25, 857-872.
- Kleibergen, F. (2009). Tests of risk premia in linearfactor models. *Journal of Econometrics* 149, 149-173.
- Kleibergen, F., Mavroeidis, S. (2009). Weak instrument robust tests in GMM and the newKeynesian Phillips curve. *Journal of Business and Economic Statistics* 27, 293-311.
- Kleibergen, F., Mavroeidis, S. (2009). Rejoinder. *Journal of Business and Economic Statistics* 27, 331-339.
- Klein, A., Spreij, P. (2009). Matrix differential calculus applied to multiple stationary time series and an extended Whittle formula for information matrices. *Linear Algebra and its Applications* 430, 674-691.
- Schluter, C., van Garderen, K.J. (2009). Edgeworth expansions and normalizing transforms for inequality measures. *Journal of Econometrics* 150, 16-29.

B

- Broda, S.A., Paoletta, M.S. (2009). CHICAGO: A Fast and Accurate Method for Portfolio Risk Calculation. *Journal of Financial Econometrics*, 7 (4), 412-436.
- Giersbergen, N.P.A. van, Goot, L.T.R. van der, Botman, M. (2009). What determines the survival of internet IPOs? *Applied Economics* 41, 547-556.
- Other
- Bun, M.J.G., Klaassen, F.J.G.M., Tan, G.K.R. (2009). Free Trade Areas and Intra-RegionalTrade: The Case of ASEAN. *Singapore Economic Review* 54, 319-334.
- Gooijer, J.G. de, Cheng, Y. (2009). Bahadur representation for the nonparametric M-estimator under α -mixing dependence. *Statistics* 43, 443-462.
- Kiviet, J.F. (2009). Econometric Analysis of Panel Data: Editorial Introduction. *Singapore Economic Review* 54, 313-317.

- Schouten, B., Cobben, F., Bethlehem, J. (2009). Indicators for the representativeness of survey response. *Survey Methodology* 35, 101-113.
- Van Triest, S., Bun, M.J.G., Van Raaij, E.M., Vernooij, M.J.A. (2009). The impact of customer-specific marketing expenses on customer retention and customer profitability. *Marketing Letters* 20(2), 125-138.

Academic publications (in/of books) – refereed

A

- Bethlehem, J.G. (2009). Computer Software for Sample Surveys. In: Pfeiffermann, D., Rao, C.R. (eds.) *Handbook of Statistics 29B*. Elsevier, Amsterdam, The Netherlands, pp. 317-350.

Academic publications (excluding publications in/of books) – non-refereed

- Bethlehem, J.G. (2009). Peilingen. *Stator* 10, 27-28.
- Giersbergen, N.P.A. van, Dek, L. (2009). Beleggingsadvies opvolgen is lucratief. *Economisch Statistische Berichten* (ESB) 94 (4567), 525-526.

Academic publications (working- and discussion papers)

- Ariza, C., Garderen, K.J. van (2009). Conditional bimodality in a structural equations model. UvA-Econometrics Working Paper 2009/12.
- Bethlehem, J.G. (2009). The rise of survey sampling. Discussion Paper 09015. Statistics Netherlands, The Hague/ Heerlen, The Netherlands.
- Boswijk, H.P. (2009). Mixed normal inference on multicointegration. UvA-Econometrics Working Paper 2009/08.
- Boswijk, H.P., Fok, D., Franses, P.H. (2009). A new multivariate product growth model. UvA-Econometrics Working Paper 2009/07.
- Boswijk, H.P., Franses, P.H., Dijk, D. van (2009). Cointegration in a historical perspective. UvA-Econometrics Working Paper 2009/06.
- Boswijk, H.P., Weide, R. van der (2009). Method of moments estimation of GO-GARCH models. UvA-Econometrics Working Paper 2009/05.
- Bun, M.J.G., F. Windmeijer (2009). The weak instrument problem of the system GMM estimator in dynamic panel data models. Tinbergen Institute Discussion Paper 2009-086/4.
- Cramer, J.S., Lumey, L.H. (2009). Maternal preconception diet and the sex ratio. UvA-Econometrics Discussion Paper 2009/11.
- Giersbergen, N.P.A. van, Goot, L.R.T. van der (2009). Look who is talking now: Analyst recommendations and internet IPOs. UvA-Econometrics Discussion Paper 2010/09.
- Gooijer, J.G. de, Cheng, Y., Zerom, D. (2009). Efficient estimation of an additive quantile regression model. Tinbergen Institute Discussion Paper 2009-104/4.
- Gooijer, J.G. de, Diks, C.G.H., Gatarek, L.T. (2009). Information flows around the globe: predicting opening gaps from overnight foreign stock price patterns. Tinbergen Institute Discussion Paper 2009-107/4 and UvA-Econometrics Discussion Paper 2009/2.
- Kiviet, J.F., Niemczyk, J. (2009). The asymptotic and finite sample (un)conditional distributions of OLS and simple IV in simultaneous equations. UvA-Econometrics Working Paper 2009/01.
- Kiviet, J.F., Phillips, G.D.A (2009). Higher-order asymptotic expansions of the least-squares estimation bias in first-order dynamic regression models. UvA-Econometrics
- Wo m, H. van (2009). The frequency of visiting a doctor: is the decision to go independent of the rking Paper 2009/09.
- Ophem, H. van (2009). The frequency of visiting a doctor: is the decision to go independent of the frequency? UvA-Econometrics Working Paper 2009/04.
- Ophem, H. van, Berkhout, P. (2009). The deductible in health insurance: do the insured make a choice based on the arguments as intended by the policy makers? UvA-Econometrics Working Paper 2009/03.

Contributions to academic conferences, workshops and seminars

- Ariza Rojas, C. (2009, 1 October). Ancillary Statistics and Bimodality in the Structural Equation. Latin American Meeting of the Econometric Society, Buenos Aires (Argentina).
- Bethlehem, J.G. (2009, September), *Use of Web surveys in Official Statistics*. Presentation at the 4th Internet Survey Methodology Workshop, Bergamo, Italy.
- Bethlehem, J.G. (2009, November), *New developments in survey methodology for official statistics*. Presentation at the Conference on Improving Survey Methods, Bremen, Duitsland.
- Boswijk, H.P. (2009, 20 April). Method of moments estimation of GO-GARCH models. 3rd ETSERN meeting, Granger Centre, University of Nottingham, UK.
- Boswijk, H.P. (2009, 23 August). Method of moments estimation of GO-GARCH models. 64th Econometric Society European Meeting, Barcelona, Spain.
- Boswijk, H.P. (2009, 1 October). Mixed normal inference on multi-cointegration. 4th ETSERN meeting, CREATES, University of Aarhus, Denmark.
- Boswijk, H.P. (2009, 2 October). Nuisance parameter free inference on cointegration parameters in the presence of a variance shift. Mini Workshop “Stationary and Non-Stationary VAR models”, CREATES, University of Aarhus, Denmark.
- Boswijk, H.P. (2009, 30 October). Method of moments estimation of GO-GARCH models. 3rd International Conference on Computational and Financial Econometrics, Limassol, Cyprus, 29-31 October 2009.
- Boswijk, H.P. (2009, 13 November). Nuisance parameter free inference on cointegration parameters in the presence of a variance shift. Seminar, Carlos III University of Madrid, Spain.
- Boswijk, H.P. (2009, 4 December). Inference on cointegration parameters in the presence of non-stationary volatility. Seminar, Tinbergen Institute, Amsterdam.
- Broda, S.A., (2009, 29 October). The Expected Shortfall of Quadratic Portfolios with Heavy-Tailed Risk Factors. 3rd International Conference on Computational and Financial Econometrics, Limassol, Cyprus, 29-31 October 2009.
- Bun, M.J.G. (2009, 3 April). The Weak Instrument Problem of the System GMM Estimator in Dynamic Panel Data Models. NY Camp Econometrics meeting, Lake Placid, USA.
- Bun, M.J.G. (2009, 7 June). The Weak Instrument Problem of the System GMM Estimator in Dynamic Panel Data Models. Econometric Society North American summer meeting, Boston, USA.
- Bun, M.J.G. (2009, 5 July). The Weak Instrument Problem of the System GMM Estimator in Dynamic Panel Data Models. 15th International Conference on Panel Data, Bonn, Germany.
- Gao, Z. (2009, 16-18 July). A Robust Semi-parametric Inference for Dynamic Discrete Games. International Conference of Computational Economics and Finance, Sydney.
- Gao, Z. (2009, 2-19 August). A Robust Semi-parametric Inference for Dynamic Discrete Games. Poster section in Institution on Computational Economics, University of Chicago, Chicago.
- Gao, Z. (2009, 23-27 August). A Robust Semi-parametric Inference for Dynamic Discrete Games. European Meeting of the Econometric Society, Barcelona.
- Giersbergen, N.P.A. van (2009, February 24). Seminar: Robustness of the estimates of the hybrid New Keynesian Phillips curves by Galí, Gertler and López-Salido (JME 2005), CeNDEF Macroeconomics Reading Group, UvA, Amsterdam.
- Giersbergen, N.P.A. van (2009, June 2). Seminar: What Every MBA Student Should Know About Statistics and Probability, Dnipropetrovsk University of Economics and Law, Ukraine.
- Giersbergen, N.P.A. van (2009, June 3). Seminar: Computer learning systems: experience with ALEKS and CengageNow, Dnipropetrovsk University of Economics and Law, Ukraine.
- Kiviet, J.F. (2009, 26 February). On the limiting and empirical distribution of IV estimators when some of the instruments are invalid. Staff seminar at the Department of Statistics. Federal University of Pernambuco, Recife, Brazil.
- Kiviet, J.F. (2009, 20 March). On the limiting and empirical distribution of IV estimators when some of the instruments are invalid. Staff seminar at Cardiff Business School.
- Kiviet, J.F. (2009, 4 July). Strength and weakness of instruments in IV and GMM estimation of dynamic panel data models. International Conference on Panel Data, Bonn, 3-5 July 2009.
- Kiviet, J.F. (2009, 10 July). Reliability of econometric inference from small panel data sets, illustrated by an analysis of determinants of the decline in infant mortality in Brazil. Invited keynote speaker at the 14th Annual Conference of the African Econometric Society. Abuja, Nigeria, 8-10 July, 2009.

- Kiviet, J.F. (2009, 30 October). Comparing the asymptotic and empirical (un)conditional distributions of OLS and IV in a simultaneous equation. 3rd International Conference on Computational and Financial Econometrics, Limassol, Cyprus, 29-31 October 2009.
- Kleibergen, F., (2009, February 19). Inference on subsets of the parameters in GMM without assuming identification. Harvard-MIT, econometrics seminar.
- Kleibergen, F., (2009, May 11). Inference on subsets of the parameters in GMM without assuming identification. University of Maryland, Econometrics seminar.
- Kleibergen, F., (2009, May 12). Inference on subsets of the parameters in GMM without assuming identification. Georgetown University, Econometrics seminar.
- Kleibergen, F., (2009, June 6). Inference on subsets of the parameters in GMM without assuming identification. Econometric Society North American Meeting, Boston University
- Kleibergen, F., (2009, August 26). Inference on subsets of the parameters in GMM without assuming identification. Econometric Society European Meeting, Barcelona Spain.
- Kleibergen, F., (2009, October 6). Inference on subsets of the parameters in GMM without assuming identification. Northwestern University, econometrics seminar.
- Kleibergen, F., (2009, November 12). Inference on subsets of the parameters in GMM without assuming identification. Research Triangle econometrics seminar, University of North Carolina, Duke and North Carolina State University.
- Klein, A. (2009, 21 May). Matrix Differential Calculus Applied to Multiple Stationary Processes and an Extended Whittle Formula for Information Matrices. The 2009 Haifa Matrix Theory Conference, Technion Haifa (Israel), May 18-21.
- Oomen, R.C.A. (2009, December), CREATES, University of Aarhus, Aarhus
- Oomen, R.C.A. (2009, November), young researchers workshop on “applied finance and financial econometrics”, Humboldt University, Berlin
- Oomen, R.C.A. (2009, June), Best Execution Strategy conference, London
- Oomen, R.C.A. (2009, March), Centre de Mathematiques Appliquees, Ecole Polytechnique, Paris
- Stakenas, Paulius (2009, 15 May) Likelihood-based estimation of cointegration rank in fractional systems, QED PhD Conference Amsterdam.
- Stakenas, Paulius (2009, 25 August) Likelihood-based estimation of cointegration rank in fractional systems, EEA-ESEM Meeting in Barcelona.
- Stakenas Paulius (2009, 22 September) Likelihood-based estimation of cointegration rank in fractional systems, TI Amsterdam PhD Lunch Seminar.
- Zu, Y. (2009, March), Estimating realized spot volatility with noisy high frequency data. Humboldt-Copenhagen Conference 2009 for “Recent Developments in Financial Econometrics, Berlin, Germany.
- Zu, Y. (2009, June), Nonparametric Specification tests for continuous-time stochastic volatility models, Netherlands Econometric Study Group meeting 2009, Amsterdam, Netherlands.
- Zu, Y. (2009, August), Estimating realized spot volatility with noisy high frequency data. Econometric Society European Meeting 2009, Barcelona, Spain.
- Zu, Y. (2009, October), Nonparametric Specification tests for continuous-time stochastic volatility models, Tinbergen Institute PhD lunch seminar, Amsterdam, Netherlands.
- Zu, Y. (2009, November), Nonparametric Specification tests for continuous-time stochastic volatility models, Tinbergen Institute Econometrics Seminar, Amsterdam, Netherlands.
- Zu, Y. (2009, December), Estimating realized spot volatility with noisy high frequency data. EC2 meeting 2009, Aarhus, Denmark.

Organisational contributions to conferences, workshops and seminars

- Bethlehem, J.G. (2009). Member of the scientific committee of the Conference on New Techniques and Technologies for Statistics (NTTS), Brussels, February 2009.
- Bethlehem, J.G. (2009). Member of the program committee of the 57th Session of International Statistical Institute, Durban, August 2009.
- Bethlehem, J.G. (2009). Organiser and chairman of meeting IPM53 (Non-response in surveys) of the 57th Session of International Statistical Institute, Durban, August 2009.
- Boswijk, H.P. (2009). Member of the program committee of the 64th Econometric Society European Meeting, Barcelona, Spain.

- Boswijk, H.P. (2009). Co-organizer (with Robin de Vilder) of Symposium on Quantitative Finance, University of Amsterdam.
- Broda, S.A. (2009, since September). Organizer of the Tinbergen Institute Econometrics Seminar series (with Michael Massmann of the VU) and of the Econometrics Workshop, UvA Econometrics.
- Bun, M.J.G. (2009). Chairman of the program committee of the 16th International Conference on Panel Data, Amsterdam, July, 2010.
- Garderen, K.J. van (2009). Co-ordinating Committee Member of the Netherlands Econometric Study Group (NESG). Local organizer of the conference held 12 June 2009, University of Amsterdam.
- Garderen, K.J. van (2009). Member Quantitative Economics Doctorate (QED) Network.
- Garderen, K.J. van (2009, until September). Organizer of the Tinbergen Institute Econometrics Seminar series (with C.Bos of the VU) and of the Econometrics Workshop, UvA Econometrics.
- Kiviet, J.F. (2009). Member of the program committee of the 64th Econometric Society European Meeting, Barcelona, Spain.
- Kiviet, J.F. (2009). Member of the program committee of the 16th International Conference on Panel Data, Amsterdam, July, 2010.

UvA-Econometrics Seminars and Workshops

- (2009, 23 January) Garry Phillips (University of Alicante) The Robustness of the 2SLS Moment Approximations
- (2009, 30 January) Bent Nielsen (Nuffield College, Oxford University) Singular Vector Autoregressions with Deterministic Terms: Consistency and Lag Order Determination
- (2009, 6 February) Vasilis Sarafidis (University of Sydney, University of Amsterdam) To Pool or not to Pool: A Partially Heterogeneous Alternative
- (2009, 20 February) Mark Podolskij (University of Aarhus, CREATES) Realised Quantile-Based Estimation of the Integrated Variance
- (2009, 6 March) Stanislav Anatolyev (New Economic School, Moscow) Sequential Testing with Uniformly Distributed Size
- (2009, 13 March 13) James Morley (Washington University in St. Louis) The Asymmetric Business Cycle
- (2009, 27 March) Gael Martin (Monash University, Melbourne) Modeling and Predicting Volatility and its Risk Premium: a Bayesian Non-Gaussian State Space Approach
- (2009, 17 April) Arthur Lewbel (Boston College) Returns to Lying When the Truth is Unobserved
- (2009, 24 April) Jim Griffin (University of Kent) Bayesian Inference with Stochastic Volatility Models with Continuous Superpositions of Non-Gaussian Ornstein-Uhlenbeck Processes
- (2009, 8 May) Zorica Mladenovic (University of Belgrade) Cagan's Paradox and Money Demand in Hyperinflation: Revisited at Daily Frequency
- (2009, 8 May) Donald Robertson (University of Cambridge) The Limits of Stock Return Predictability
- (2009, 15 May) Alastair Hall (University of Manchester) Information Criteria for Impulse Response Function Matching Estimation of DSGE Models
- (2009, 29 May) Valeri Voev (Aarhus University) Least Squares Inference on Integrated Volatility and the Relationship between Efficient Prices and Noise
- (2009, 30 March 30) Tommaso Proietti (Udine University) Forecasting US unemployment using nonlinear structural time series models
- (2009, 19 June) Takashi Yamagata (University of York) Panels with Nonstationary Multifactor Error Structures
- (2009, 9 October) David Harvey (University of Nottingham) Testing for Unit Roots in the Presence of a Possible Break in Trend and Non-Stationary Volatility
- (2009, 16 October) Zhengyuan Gao (University of Amsterdam) Semi-Parametric Inference for Worst Case Dynamic Discrete Games
- (2009, 23 October) Denis Nekipelov (UC Berkeley) Statistical Properties of Numerical Derivatives
- (2009, 6 November) Melvyn Weeks (University of Cambridge) Subset Selection for Stochastically Ordered Distributions: An Application to Efficiency Measurement
- (2009, 13 November) Nuno Sobreira (Nova University of Lisbon) Tests for Multiple Breaks in the Trend with Stationary or Integrated Shocks

- (2009, 20 November) Christoph Hanck (Rijksuniversiteit Groningen) Combining Non-Cointegration Tests
- (2009, 27 November) Yang Zu (University of Amsterdam) A Return Based Goodness-of-fit Test for the Distributional Implication of Stochastic Volatility Models
- (2009, 4 December) Peter Boswijk (University of Amsterdam) Inference on cointegration parameters in the presence of nonstationary volatility
- (2009, 7 December) Jean-Marie Dufour (McGill University) Identification robust inference in structural multivariate factor models with rank restrictions

Editor or member of editorial board

- Boswijk, H.P. (2009). Guest Editor (with D. van Dijk and P.H. Franses) of the *Journal of Econometrics Annals* (special issue on 20 Years of Cointegration).
- Gooijer, J.G. de (2009). Associate Editor of the *International Journal of Forecasting*.
- Gooijer, J.G. de (2009). Associate Editor *Empirical Economics*.
- Kiviet, J.F. (2009). Member of the Editorial Board of *Foundations and Trends in Econometrics*.
- Kiviet, J.F. (2009). Guest editor of the *Singapore Economic Review* for a special issue on Panel Data Analysis in Econometrics.
- Kleibergen, F. (2009). Associate editor of *Economics Letters*.

Referee activities

- Bethlehem, J.G. (2009). Referee for: *Journal of Official Statistics, Research in Official Statistics, European Journal of Operations Research, Journal of American Statistical Association*.
- Boswijk, H.P. (2009). Referee for *Computational Statistics and Data Analysis, Econometric Reviews, Econometric Theory, Journal of Econometrics, Quantitative Finance, Review of Economic Studies*.
- Bun, M.J.G. (2009). Referee for: *Demography, Econometric Reviews, Energy Economics, Journal of Econometrics, Journal of Economics and Statistics, Journal of Multivariate Analysis, Singapore Economic Review*
- Giersbergen, N.P.A. van (2009). Referee for: *Econometric Theory*.
- Gooijer, J.G. de (2009). Referee for: *Journal of Econometrics, International Journal of Forecasting, Empirical Economics, Statistics*.
- Garderen, K.J. van (2009). Referee for: *Journal of Econometrics, Journal of Forecasting*.
- Kiviet, J.F. (2009). Referee for: *Journal of Econometrics, Journal of Economic Dynamics and Control, Journal of Applied Econometrics, Journal of Computational Statistics & Data Analysis, Singapore Economic Review, Studies in Nonlinear Dynamics & Econometrics*.
- Kleibergen, F. (2009). *Journal of Econometrics, Journal of Applied Econometrics, Econometric Theory, Econometrica, Journal of Business and Economic Statistics, Review of Economics and Statistics, Econometrics Journal, Economics Letters*.
- Klein, A. (2009). Referee for: *Numerical Linear Algebra with Applications, Linear Algebra with Applications*.

Participation in academic networks & fellowships

- Boswijk, H.P. (2009). Fellow Tinbergen Institute.
- Boswijk, H.P. (2009). Fellow Netherlands Network of Economics.
- Boswijk, H.P. (2009). Member of European Time-Series Econometric Research Network (ETSERN).
- Broda, S.A. (2009) Candidate Fellow Tinbergen Institute.
- Bun M.J.G. (2009). Fellow Tinbergen Institute.
- Cramer, J.S. (2009). Resting member of the Royal Netherlands Academy of Arts and Sciences
- Cramer, J.S. (2009). Honorary research fellow Tinbergen Institute.
- Garderen, K.J. van (2009). Fellow Tinbergen Institute.
- Garderen, K.J. van (2009). Member Marie Curie Fellowship Association.
- Gooijer, J.G. de (2009). Fellow Tinbergen Institute.
- Gooijer, J.G. de (2009). Fellow Netherlands Network of Economics
- Gooijer, J.G. de (2009). Honorary Fellow of the International Institute of Forecasters.
- Kiviet, J.F. (2009). Elected member of the Royal Netherlands Academy of Arts and Sciences
- Kiviet, J.F. (2009). Fellow of *Journal of Econometrics*.

Kiviet, J.F. (2009). Fellow Tinbergen Institute.
Kleibergen, F. (2009). Fellow of *Journal of Econometrics*.
Kleibergen, F. (2009). Associate research fellow Tinbergen Institute.

Membership of academic committees (including Ph.D. committees outside the ASE)

Bethlehem, J.G. (2009). Board member of the Interuniversity Graduate School of Psychometrics and Sociometrics (IOPS).
Bethlehem, J.G. (2009). Member of the National Statistics Methodology Advisory Committee of the Office for National Statistics, London, UK.
Bethlehem, J.G. (2009). Member of the Board of Overseers of the MESS Project (Multi-disciplinary facility for measurement and Experimentation in the Social Sciences).
Boswijk, H.P. (2009, July). Member of PhD committee of Bram van Dijk at Erasmus University, Rotterdam.
Boswijk, H.P. (2009, September). Member of PhD committee of Marcel Visser at University of Amsterdam (Faculty of Science).
Boswijk, H.P. (2009, October). Member of PhD committee of Jerzy Niemczyk at University of Amsterdam (Amsterdam School of Economics).
Boswijk, H.P. (2009, December). Member of PhD committee of Tse-Chun Lin at University of Amsterdam (Amsterdam Business School).
Garderen, K.J. van (2009, October). Member of PhD committee of Jerzy Niemczyk at University of Amsterdam (Amsterdam School of Economics).
Kiviet, J.F. (2009, October). Member of PhD committee of Fanny Cobben at University of Amsterdam

Research contributions in the media

Bethlehem (2009). Methodological Adviser of the 'EénVandaag Opiniepanel' of the television channel Nederland 1.

Various activities

Bethlehem, J.G. & Schouten, B. (2009, March), Teaching a three day EU-course on handling non-response in household surveys, The Hague, The Netherlands.
Bethlehem, J.G. & Cobben F. (2009, June), Teaching a two day course on handling non-response in household surveys, Southampton, UK.
Giersbergen, N.P.A. van (2009). Referee for NWO-MaGW Open Competition 2009.
Kiviet, J.F. (2009, 11-13 February). Teaching a mini-course on "Evaluating econometric inference by Monte Carlo simulation" at the summer school organized by CAEN: Universidade Federal do Ceara (UFC), Fortaleza, Brazil.
Klein, A. (2009). Mathematical Reviews for the American Mathematical Society.

CHAPTER 2: OPERATIONS RESEARCH & MANAGEMENT

<i>Programme director:</i>	<i>Prof. dr. N.M. van Dijk</i>
<i>Department:</i>	<i>Quantitative Economics</i>
<i>METIS-code:</i>	<i>uva/fee/res/or/prog</i>
<i>JEL-classification:</i>	<i>C4</i>
<i>Website:</i>	<i>www.ase.uva.nl/or</i>
<i>Starting date programme:</i>	<i>1989</i>
<i>VSNU-scores 2001-2007:</i>	<i>Quality: 3.5, Productivity: 3, Relevance: 4, Viability: 3.5</i>

2.1 MEMBERS OF THE RESEARCH GROUP AND RESEARCH IN FTES

<i>Name</i>	<i>Title</i>	<i>Function</i>	<i>Total 2006</i>	<i>Total 2007</i>	<i>Total 2008</i>	<i>Total 2009</i>	<i>Dept.</i>	<i>Funding</i>
Adan, I.J.B.F.	prof dr	hgl	-	-	0,01	0,10	KE	1
Al-Ibrahim, A.	drs	phd	0,45	0,45	-	-	KE	1
Al-Ibrahim, A.	drs	phd	0,15	0,15	0,33	-	KE	3
Dijk, N.M. van	prof dr	hgl	0,50	0,50	0,50	0,50	KE	1
Duin, C.W.	dr	ud	0,46	0,46	0,46	0,46	KE	1
Haijema, R.	drs	phd	0,48	0,32	-	-	KE	1
Hontelez, J.A.M.	ir	ud	0,00	-	-	0,11	KE	1
Joustra, P.	drs	phd	0,07	0,30	0,30	0,30	AMC	1
Nunez Queija, R.	dr	uhd	-	-	0,08	0,43	KE	1
Sluis, H.J. van der	dr	ud	0,50	0,50	0,50	0,50	KE	1
Volgenant, A.	dr	uhd	0,39	0,39	0,39	0,27	KE	1
Wal, J. van der	prof dr	hgl	0,25	0,25	0,25	0,25	KE	1
Total 1st flow of funds			3,10	3,17	2,49	2,92		
Total 2nd flow of funds			0,00	0,00	0,00	0,00		
Total 3rd flow of funds			0,15	0,15	0,33	0,00		
Total 1st f.o.f. excl. Ph.D.'s			2,10	2,10	2,19	2,62		
Total 1st-3rd flow of funds			3,25	3,32	2,81	2,82		

2.2 PROGRAMME DESIGN

The general research mission of the Programme can be formulated as threefold

- (i) The development and continuation of fundamental theoretical research in the areas of deterministic and stochastic operations research.
- (ii) The application and development of scientific research in these fields for technological and infrastructure applications.
- (iii) The dissemination of general insights and scientific results from the field of Operations Research for daily-life non-technical logistical situations.

Accordingly, three lines of research and associated activities are distinguished:

I Fundamental Theoretical Research

In this category in turn three directions of research are followed:

1.1 Combinatorial Optimisation specialised to:

- Generalisations of the Travelling Salesman Problems such as Peripatetic Salesman Problem; Steiner Tree Problems on Graphs and Generalisations as multiweighted problems;
- Degree constrained trees and problems with criteria as bottleneck, minimum deviation, and partial sum;
- Linear Assignment Problems

This research is focused on both exact and heuristic methods. The heuristic methods are of most interest from a practical point of view, as in many cases a nearly optimal solution is also sufficient. Special interest has been developed for the numerical implementation of algorithms.

1.2 Queuing Network Analysis

Stochastic service networks naturally arise in manufacturing (production lines), computer science (computer networks), telecommunications (long distance, satellite and mobile communications) and transportation (railway systems, traffic lights). The research themes are:

- the development of closed form (exact) expressions for stochastic service networks, most notably product form expressions for queuing networks;
- the development of simple insights in when and when not a stochastic network has this so-called product form steady state distribution.
- simple performance bounds for networks that are non-solvable due to practical phenomena such as finite capacity constraints, job-priorities or breakdowns.

1.3 Markov Chain Analysis

1.3.1 Error Bound Analysis for Approximate Markov Chain Modelling

- As practical systems that arise in manufacturing, telecommunications and computer networking are often non-solvable for the reasons mentioned, based on the insights and results above, approximations and bounds have to be developed. The error introduced by such approximations or bounds is of practical interest. To this end a technique has been developed to provide analytical error bounds. The application and extension of this technique remains a continuing research interest for a variety of situations. Particular research problems are:
 - error bounds for non-exponential stochastic networks;
 - error bounds for the truncation of Markov chains;
 - error bounds for sensitivity analysis.

1.3.2 Continuous time and large Markov Chain Modelling

- Continuous time Markov Chain Models are known to provide a powerful tool for the description and modelling for a variety of applied fields. Unfortunately, for computational purposes these systems are generally hard if not impossible to handle, as the state spaces are usually far too large. Different methods to overcome this intractability are of ongoing research, such as by aggregation methods and uniformization.

II Fundamental Applied Research

This concerns queuing network and Markov chain modelling for a number of applied technical fields in order to obtain computationally attractive results. Most notably:

- Telecommunications (mobile communications, long-distance communications)
- Transportation Networks (Public transportation, Railways)
- Inventory systems and Reliability Networks

III Practical Research for Daily-life Logistics (Operations Management)

This concerns the application of insights and techniques from Operations Research for a number of practical logistical environments such as in:

- Administrative and Production Logistics
- Health care and hospitals
- Call Centers

2.3 PROGRAMME EVALUATION

During 2009 the results of the research visitation were given out with the marks as indicated. According to the programme leader these did not at all reflect the changes and the quality of the research that had

taken place over former years. In contrast with the marks from the review, therefore, a response letter was written to the review committee to argue that a marking of:

Quality	4.5
Relevance	4.5
Viability	4

would have been in place. Unfortunately, however, despite its factional support in terms of accepted publications and external recognition, the letter was not taken into account at all.

In line with this letter and despite the evaluation, the development and quality of the programme, with clear exception the shortcoming of Ph.D.'s, can be regarded as quite positive as indicated below.

In the first place and in response to and since the earlier research visitation, also in 2009 the programme set itself the objectives of:

- A strong interaction among the group .
- A strong research orientation of all members.
- A more balanced and structured production over all members.

The steps in these directions as already set and visible in earlier years have been continued and also been reflected in 2009, as by:

- An overall research mind setting and participation among the group
- Different research interactions among various members
- Productivity by each of the individual members

All three research categories of the programme design are represented by:
(only the names of group members are listed and therefore not necessarily in order as they appear in the publications)

Fundamental theoretical research (category 1):

Adan e.a. (7x) / Nunez Queija /
Van Dijk e.a. / Van Dijk and Van der Sluis

Fundamental Applied Research (category 2)

Adan e.a. (4x) / Joustra, Van Dijk and van der Sluis /
Nunez Queija (2x) / Van Dijk and Van der Sluis (2x)

Practical Research (category 3)

Adan e.a. / Joustra e.a. / Van Dijk e.a. /
Van der Wal and Van Dijk e.a. (2x)

Over 2009 the research outcome in terms of publications in quality journals for which group members were involved can be regarded as quite satisfactory (14A and 6B). The overview also shows, in response to the review's statement on coherence of the program, that the research is rather equally spread over the three categories:

Category 1: 10 (6A)
Category 2: 8 (6A)
Category 3: 6 (3A)

The wide variety of applications is inherent to the field of Operations Research and rather than as weak might also be seen as strong point. In addition it shows that the researchers do strongly collaborate both internally and, particularly due to the two new group members nationally and internationally.

Secondly, also for 2009 the objectives were set of :

- More research profiling (e.g. by conferences and presentations).
- External funding for Ph.D. research.

As for the first of these two objectives, there have been a number of achievements:

- First of all , the two new group members I. Adan and R. Nunez Queija , have been highly active in the organisation and involvement of international meetings (see organisational contributions).
- Both of them have also acted as guest editors for special volumes (see under editor: Adan, Nunez Queija 2x). Clearly both these two activities strongly enlarge the visibility of not only these members but also of the group in total.
- By the organisation of three internal seminar afternoons a first step has been set for more internal in combination with external (special guest) collaboration all across the group. Meanwhile this has led to at least two new strat-ups.
- An application has been written for an Excellence in Practice Award of the European OR society. This application was selected as one of 6 finalists.

PhD's and funding

As for the second of these two objectives regarding PhD's and funding, an obvious weak point of the programme is the limited number of completions and at present a nearly total lack of Ph.D. potential for coming years. One Ph.D. completion which was anticipated for in 2009 has been delayed but will take place before the summer 2010. A second one is anticipated for by the end of 2010 / beginning of 2011. An ambitious set-up has therefore been suggested for 5 Ph.D.'s for which 50% of external financing would be sought. Unfortunately, due to a total internal budget blocking, no matching from the department can be provided. The objective for 2009 of applying for NWO/STW funding for Ph.D. research has not yet been realized but definitely remains standing for 2010. Meanwhile, a one year funding is obtained for one 50% parttime research assistant and two halftime (50%) external findings for two specific Ph.D. topics are provisionally approved.

Summarizing, some of the 2009 objectives have not fully been met but remain standing for 2010 as:

- The continuation of the initial three objectives (interaction, orientation and balanced).
- The start of new collaborations all across the group with the two new research members.
- The completion of a book editing in an esteemed series of fundamental OR-research.
- The application for PhD research grants (at least one by 2-nd and one by 3-rd financial support).
- One PhD completion.

A SWOT overview

Strengths

- The theoretical and technical quality of the programme and its members.
- Its strive for and realization of a substantial number of A/B papers Within the economic field (despite the fact that OR is not within its core)
- Its practical orientation
- The internal collaborations
- Its collaboration with real life institutes.
- The national and international contacts and collaborations.

Weaknesses

- An almost complete lack of Ph.D. completions now and in coming years.
- The group size in combination with part-time availabilities.
- The interaction between deterministic and stochastic OR.

Threats

- It is hard to find and to compete with other OR groups (CWI/Technical universities) for Ph.D candidates.
- A reduction by two fixed staff group members for retirement in the next two years for whom no new staff can be hired.
- An isolation and reduction of deterministic OR within the group.
- No match funding from the department as often required for external funding.

Opportunities (despite the SWOT word this seems a more stimulating order)

- External funding for Ph.D. research (NWO/STW/ Industry Research Institutes)
- Exploiting the combined approach of theoretically supported but also computationally oriented research with present-day software potential, most notably computer simulation. (Mentioned by the visitation as: a distinctive expertise).
- More exploiting the collaborative orientation and scientific quality from the two new group members to increase the internal collaboration also between stochastic and deterministic OR within the group and its corresponding production.
- More exploiting the large number of international contacts.
- The development of OR within Healthcare.

2.4 RESOURCES AND FUNDING

Next to the funding by Resam for the fixed staff members the following external funding was obtained:

- A 50% external funding is acquired for one PhD. student (AMC).
- One PhD. student was partially funded by the Dutch Railways (NS) (up to sept).
- External funding was acquired for one 50% parttime research assistant. (up to sept).
- By small practical (research) projects limited external funding has been acquired and used for traveling.

2.5 OUTPUT

Key Publications

- Dijk, N.M. van & Sluis, E. van der (2009). Call Packing Bound for Overflow Loss Systems. *Performance Evaluation*, 66, 1-20. [A]
- Dijk, N.M. van & Sluis, E. van der (2008). To Pool or not to Pool in Call Centers. *Production and Operations Management*, 17, 296-305. [A]
- Dijk, N.M. van, Haijema, R., Wal, J., van der & Smit Sibinga, C. (2009). Blood Platelet Production: A novel approach for practical optimization. *Transfusion*, 49, 411-420. [A op aanvraag]
- Duin, C.W. & Sluis, E. van der (2006). On the complexity of Adjacent Resource Scheduling. *Journal of Scheduling*, 9, 49-62. [B].
- Duin, C.W. & Volgenant, A. (2006). Some inverse optimization problems under the Hamming distance. *European Journal of Operational Research*, 170, 887-899. [B]
- Verloop, I.M. & Núñez Queija, R. (2009). Achievable performance of resource allocations in bandwidth-sharing networks. *Performance Evaluation*, 66, 59-77. [A]
- Vlasiou, M., Adan, I.J.B.F. & Boxma, O.J. (2009). A two-station queue with dependent preparation and service times. *European Journal of Operational Research*, 195, 104-116. [A]

Forthcoming

- Boon, M.A.A., Adan, I.J.B.F., & Boxma, O.J. (2010). A two-queue polling model with two priority levels in the first queue. Forthcoming in *Discrete Event Dynamic Systems*.
- Dijk, N.M. van (2010). On Practical Product Form Characterization. Part A Product Forms: Single Station Hierarchy. Forthcoming in *Advancing State-of-the-Art Handbooks in Operations Research and Management Science*, Springer.
- Dijk, N.M. van (2010). On Practical Product Form Characterization. Part B Product Forms: Tandem and Cluster Structures. Forthcoming in *Advancing State-of-the-Art Handbooks in Operations Research and Management Science*, Springer.
- Dijk, N.M. van (2010). Error Bounds and Comparison Results: The Markov Reward Approach for Queueing Networks. Part A Motivation and general results. Forthcoming in *Advancing State-of-the-Art Handbooks in Operations Research and Management Science*, Springer.
- Dijk, N.M. van (2010). Error Bounds and Comparison Results: The Markov Reward Approach for Queueing Networks. Part B Applications on Practical Product Form Characterization. Forthcoming in *Advancing State-of-the-Art Handbooks in Operations Research and Management Science*, Springer.
- Duin, C.W. & Volgenant, A. (2010). Improved polynomial algorithms for robust bottleneck problems with interval data. Forthcoming in *Computers & Operations Research*, 37, 909-915.
- Duin, C.W. & Volgenant, A. (2010). On a pair of job-machine assignment problems with two stages. Forthcoming in *Computers & Operations Research*, 37, 334-340.
- Gong, H., Tang, L. & Duin, C.W. (2010) A two-stage flow shop scheduling problem on a batching machine and a discrete machine with blocking and shared setup times *Computers & Operations Research*, 37, 960-969.
- Joustra, P.E., Sluis, E. van der & Dijk & N.M. van (2010). To Pool or not to Pool in Hospitals. *Annals of Operation Research*. [B]
- Joustra, P. E., Wit, J. de, Struben V.M.D., Overbeek B.J.H., Fockens, P. & Elkhuizen, S.G. (2010) Reducing access times for an endoscopy department by an iterative combination of computer simulation and Linear Programming. *Health Care Management Science*.
- Mekking, M. & Volgenant, A. (2010). Solving the 2-rooted mini-max spanning forest problem by branch and bound. Forthcoming in *European Journal of Operational Research*, 203, 50-58.
- Verloop, I.M. & Núñez Queija, R. (2010). Asymptotically optimal parallel resource assignment with interference. Forthcoming in *Queueing Systems*.
- Verloop, I.M., Ayesta, U. & Núñez Queija, R. (2010). Heavy-traffic analysis of a multiple-phase network with discriminatory processor sharing. Forthcoming in *Operations Research*.

Publications in numbers

Operations Research & Management

				2009
1) Academic publications	a) in refereed journals	A	12	20
		B	5	
		C	3	
	b) in other journals			-
		c) book chapters	A	-
		B	-	
		C	1	
	d) proceedings	Other		4
	Total			25
	2) Monographs		A	-
		B	-	0
		C	-	
3) Ph.D. theses				1
4) Professional publications				-
5) Popular publications				-
6) Working papers				-
Total				26

Dissertations

Verloop, I.M. (2009, November 26). *Scheduling in stochastic resource-sharing systems*. Eindhoven University of Technology. [co-promotor dr. R. Núñez Queija] [cat. IV]

Academic publications (excluding publications in/of books) – refereed

A

- Adan, I.J.B.F., Economou, A. & Kapodistria, S. (2009). Synchronized renegeing in queueing systems with vacations. *Queueing Systems*, 62, (1-2), 1-33.
- Adan, I.J.B.F., Foley, R.D. & McDonald, D.R. (2009). Exact asymptotics for the stationary distribution of a Markov chain: A production model. *Queueing Systems*, 62, (4), 311-344.
- Adan, I.J.B.F., Mandjes, M., Scheinhardt, W. & Tzenova, E. (2009). On a generic class of two-node queueing systems. *Queueing Systems*, 61, (1), 37-63.
- Boon, M.A.A., Adan, I.J.B.F. (2009). Mixed gated/exhaustive service in a polling model with priorities. *Queueing Systems*, 63, (1-4), 383-399.
- Boucherie, R.J. & Dijk, N.M. van (2009). Monotonicity and error bounds for Networks of Erlang Queues. *Queueing Systems*, 62, (1-2), 159-193.
- Dijk, N.M. van & Kortbeek, N. (2009). Erlang Loss Bounds for OT-ICU systems. *Queueing Systems*, 63, (1-4), 253-275.
- Dijk, N.M. van & Sluis, E. van der (2009). Call Packing Bound for Overflow Loss Systems. *Performance Evaluation*, 66, (1), 1-20. [A]
- Dijk, N.M. van & Sluis, E. van der (2009). Pooling is not the answer. *European Journal of Operational Research*, 197, (1), 415-421. [A]
- Fralix, B.H. & Adan, I.J.B.F. (2009). An infinite-server queue influenced by a semi-Markovian environment. *Queueing Systems*, 61, (1), 65-84.
- Haijema, R., Dijk, N.M. van, Wal, J. van der & Smit Sibinga, C. (2009). Blood Platelet Production with Breaks: Optimization by SDP and Simulation. *International Journal on Production Economics*, 121, (2), 464-473. [A]
- Tan, H.-P., Núñez-Queija, R., Gabor, A.F. & Boxma, O.J. (2009). Admission control for differentiated services in future generation CDMA networks. *Performance Evaluation*, 66, (9-10), 488-504.
- Verloop, I.M. & Núñez Queija, R. (2009). Achievable performance of resource allocations in bandwidth-sharing networks. *Performance Evaluation*, 66, (1), 59-77. [A]

Vlasiou, M., Adan, I.J.B.F. & Boxma, O.J. (2009). A two-station queue with dependent preparation and service times. *European Journal of Operational Research*, 195, (1), 104-116. [A]

B

- Adan, I.J.B.F. & Haviv, M. (2009). Conditional ages and residual service times in the M/G/1 queue. *Stochastic Models*, 25, (1), 110-128.
- Dijk, N.M. van, Haijema, R., Wal, J., van der & Smit Sibinga, C. (2009). Blood Platelet Production: A novel approach for practical optimization. *Transfusion*, 49, 411-420.
- Selcuk, B., Adan, I.J.B.F., Kok, A.G. de & Fransoo, J.C. (2009). An explicit analysis of the lead time syndrome: stability condition and performance evaluation. *International Journal of Production Research*, 47, 2507-2529.
- Vuuren, M. van & Adan, I.J.B.F. (2009). Performance analysis of tandem queues with small buffers. *IIE Transactions*, 41, (10), 882-892.
- Winands, E.M.M., Adan, I.J.B.F., Houtum, G.J.J.A.N. van & Down, D.G. (2009). A state-dependent polling model with k-limited service. *Probability in the Engineering and Informational Sciences*, 23, (2), 385-408.

Other

- Adan, I.J.B.F., Bekkers, J.A., Dellaert, N.P., Vissers, J.M.H. & Yu, X. (2009). Patient mix optimisation and resource allocation: a case study in cardiothoracic surgery planning. *Health Care Management Science*, 12, (2), 129-141.
- Adan, I.J.B.F., Sleptchenko, A. & Houtum, G.J.J.A.N. van (2009). Reducing costs of spare parts supply systems via static priorities. *Asia-Pacific Journal of Operational Research*, 26, (4), 559-585.
- Verloop, I.M., Ayesta, U. & Núñez Queija, R. (2009). Heavy-traffic analysis of the M/PH/1 discriminatory processor sharing queue with phase-dependent weights. *Performance Evaluation Review*, 37, 42-44.

Academic publications (in/of books) – refereed

- Opp, M., Adan, I.J.B.F., Kulkarni, V.G. & Swaminathan, J.M. (2009). Allocating Outsourced Warranty Service Contracts. In Carettas, K.E. (ed.), *Outsourcing, Teamwork and Business Management*. Hauppauge NY: Nova Science Publishers.

Academic publications (in proceedings) – non-refereed

- Boon, M.A.A., Adan, I.J.B.F. & Boxma, O.J. (2009). A two-queue polling model with two priority levels in the first queue. *Value Tools 2008* (Proceedings Third International Conference on Performance Evaluation Methodologies and Tools, Athens, Greece, October 20-24, 2008). Gent: ICST.
- Boxma, O.J., Van Wijk, A.C.C. & Adan, I.J.B.F. (2009). Polling Systems with a Gated/Exhaustive Discipline. *Value Tools 2008* (Proceedings Third International Conference on Performance Evaluation Methodologies and Tools, Athens, Greece, October 20-24, 2008). Gent: ICST.
- Dijk, N.M. van & Kortbeek, N. (2009). Erlang Loss Bounds for OT-ICU systems. *The Erlang Centennial: 100 years of Queueing*, Copenhagen, April 1-3, 2009, 163-185.
- Dijk, N.M. van & Sluis, E. van der (2009). OR for Simulation and its Optimization. *The 10-th International Symposium on Operational Research in Slovenia*, Nova Gorica, September 23-25, 2009.

Contributions to academic conferences, workshops and seminars

- Dijk, N.M. van (2009, April 1.). *Erlang Loss Bounds for OT-ICU system*. Erlangs Centennial Conference. Copenhagen. Lecture.
- Dijk, N.M. van (2009, September 23). *OR for Simulation and its Optimization*. The 10th International Symposium on Operational Research in Slovenia, Nova Gorica. Lecture.
- Núñez Queija, R. (July 2009). *Asymptotically optimal parallel resource assignment with interference*. INFORMS Applied Probability Conference, Cornell University (Ithaca, USA). Lecture.

- Núñez Queija, R. (December 2009). *Heavy-traffic analysis of the M/PH/1 discriminatory processor sharing queue with phase-dependent weights*. MAMA 2009 workshop on Mathematical Performance Modeling and Analysis (Seattle, USA). Lecture.
- Sluis, E. van der (2009, July 8). *A heuristic to solve the economic lot scheduling problem even with a high utilization of the facility*. 23rd European Conference on Operational Research. Bonn, Germany. Lecture.
- Wal, J. van der (2009, June 3). *On a queueing decision problem in railway traffic*, Haifa, Israel. Lecture.
- Wal, J. van der (2009, July 7). *Blood Platelet Optimization at Blood Banks*, Bonn, Germany (EURO Practice Award). Invited Lecture.

Organisational contributions to conferences, workshops and seminars

- Adan, I.J.B.F. (2009). Member of Invited Speakers Committee of NET-COOP 2009. November 23-25, 2009.
- Adan, I.J.B.F. (2009). Co-organizer of EURANDOM workshop on Stochastic Models for warehousing Systems. October 29-30, 2009.
- Adan, I.J.B.F. (2009). Organizer of invited session on Stochastic Models of Manufacturing and Service Systems at INFORMS Annual Meeting 2009 San Diego.
- Núñez Queija, R. (2009): Technical Program Committee chair for NET-COOP International Conference on Network Control and Optimization 2009 (co-chair J.A.C. Resing).
- Núñez Queija, R. (2009): Technical Program Committee member for ACM SIGMETRICS & PERFORMANCE (joint conference) 2009;
- Núñez Queija, R. (2009): Technical Program Committee member for ITC International Teletraffic Congress 2009;
- Núñez Queija, R. (2009): Technical Program Committee member for MAMA Workshop on Matrix Analytical Methods and Analysis 2009;
- Núñez Queija, R. (2009): Technical Program Committee member for NGI Conference on Next Generation Internet 2009;
- Núñez Queija, R. (2009): Technical Program Committee member for QoS Workshop on the Evaluation of Quality of Service through Simulation 2009;
- Núñez Queija, R. (2009): Technical Program Committee member for QTNA Conference on Queueing Theory and Network Applications 2009.
- Núñez Queija, R. (2009): Organizer (with B. Zwart) of the national Queueing Colloquium (twice a year).

Participation in academic networks & fellowships

- Adan, I.J.B.F. (2009). Member LNMB (Landelijk Netwerk Mathematische Besliskunde).
- Dijk, N.M. van (2009). Member LNMB (Landelijk Netwerk Mathematische Besliskunde) and ORSA (Operations Research Society of America).
- Núñez Queija, R. (2009). Member of IFIP (Working Group 7.3), Stieltjes Institute and LNMB (Landelijk Netwerk Mathematische Besliskunde).
- Sluis, H.J. (2009). Member of INFORMS (Institute for Operations Research and the Management Sciences) and ISIR (International Society for Inventory Research).
- Volgenant, A. (2009). Member LNMB (Landelijk Netwerk Mathematische Besliskunde).
- Wal, J. van der (2009). Member LNMB (Landelijk Netwerk Mathematische Besliskunde).

Editor or member of editorial board

- Adan, I.J.B.F. (2009). Associate Editor of *Queueing Systems, Statistica Neerlandica & Mathematical Methods of Operations Research*.
- Adan, I.J.B.F. (2009). Area Editor of *Asia-Pacific Journal of Operations Research*.
- Adan, I.J.B.F. (2009). Guest Editor of Special Issue of *Annals of Operations Research: Polling Systems*.
- Núñez Queija, R. (2009). Associate Editor of *Performance Evaluation, Operations Research Letters, Mathematical Methods of Operations Research*.
- Núñez Queija, R. (2009). Guest editor (joint with M.R.H. Mandjes and R.D. van der Mei) of *Annals of Operations Research*, Volume 170 (2009).

- Núñez Queija, R. (2009). Volume Editor (joint with J.A.C. Resing) of LNCS series: *Lecture Notes in Computer Science*, Volume 5894 (2009).
- Volgenant, A. (2009). Advisory editor of *Computers & Operations Research*.

Referee activities

- Dijk, N.M. van (2009). Referee for *Queueing Systems, Applied probability, European Journal of Operational Research, International Journal of Production Economics, Performance Evaluation, Journal of the Royal Statistical Society, Mathematical Methods in Operations Research, Health Care Management Science*.
- Duin, C.W. (2010). Referee for *European Journal of Operational Research, Computers & Operations Research, Discrete Mathematics*.
- Núñez Queija, R. (2009). Referee for *Applied Probability Trust Journals (Advances in Applied Probability and Journal of Applied Probability), Mathematical Methods of Operations Research, Operations Research, Performance Evaluation, Queueing Systems*.
- Volgenant, A. (2009). Referee for *Computers & Operations Research, European Journal of Operational Research, Journal of the Operational Research Society, Mathematical and Computer Modelling*.

Membership of academic committees (including Ph.D. committees outside the FEB)

- Adan, I.J.B.F. (2009). Invited member promotion committee of Natalia Osopova. Promotor: Philippe Nain, Konstantin Avrachenkov. INRIA Sophia Antipolis, France.
- Adan, I.J.B.F. (2009). Invited member promotion committee of Yeming Gong. Promotor: prof. R. de Koster, prof. S.L. van de Velde. Erasmus Universiteit.
- Adan, I.J.B.F. (2009). Invited member promotion committee of Denis Miretskiy. Promotor: prof. M. Mandjes, prof. R. Boucherie. Universiteit Twente.
- Adan, I.J.B.F. (2009). Invited member promotion committee of Ingrid Vliegen. Promotor: prof. G. van Houtum, prof. A.G. de Kok. Technische Universiteit Eindhoven.
- Adan, I.J.B.F. (2009). Invited member promotion committee of Maaike Verloop. Promotor: prof. S. Borst, prof. O.J. Boxma. Copromotor: S. Núñez Queija. Technische Universiteit Eindhoven.
- Dijk, N.M. van (2009). Invited member promotion committee of A. Es-Saghouani (University of Amsterdam, November 17, 2009).
- Núñez Queija, R. (2009). Invited member promotion committee of A. Es-Saghouani (University of Amsterdam, November 17, 2009).
- Núñez Queija, R. (2009). Invited member promotion committee of R. Egorova (Eindhoven University of Technology, February, 2009).
- Núñez Queija, R. (2009). Invited member promotion committee of F. Roijers (University of Amsterdam, February 2009).

Grants, prizes and honours

- Dijk, N.M. van, Haijema, R., Kortbeek, N. & Wal, J. van der (2009). Based on Blood platelet Optimization for Blood Banks. One of six selected finalists for the *Euro Excellence in Practice Award*.

CHAPTER 3: EQUILIBRIUM, EXPECTATIONS & DYNAMICS

<i>Subprogrammes:</i>	<i>EU FP7 Monetary, Fiscal and Structural Policies with Heterogeneous Agents (POLHLA)</i> <i>NWO-VIDI Structural Stability in Economic Dynamics</i>
<i>Name programme director:</i>	<i>Prof.dr. C.H. Hommes & dr. F.O.O. Wagener</i>
<i>Department:</i>	<i>Quantitative Economics</i>
<i>Metis-code:</i>	<i>uva/fee/res/e&d/prog</i>
<i>JEL-Classification:</i>	<i>C, D, E6</i>
<i>Web-address</i>	<i>www.ase.uva.nl/cendef</i>
<i>Starting date Programme:</i>	<i>1998</i>
<i>VSNUScores 2001-2007:</i>	<i>Quality: 4.5, Productivity: 4.5, Relevance: 5, Viability: 5</i>

3.1 MEMBERS OF THE RESEARCH GROUP AND RESEARCH IN FTES

<i>Name</i>	<i>Title</i>	<i>Function</i>	<i>Total 2006</i>	<i>Total 2007</i>	<i>Total 2008</i>	<i>Total 2009</i>	<i>Dept.</i>	<i>Funding</i>
Anufriev, M.	dr	postdoc	0,80	0,80	0,54	-	KE	2
Anufriev, M.	dr	ud	-	-	0,16	0,50	KE	1
Assenza, T.	dr	postdoc	-	1,00	0,33	0,11	KE	3
Bao, T.	msc	phd	-	-	-	0,20	KE	1
Bekiros, S.	dr	postdoc	0,05	1,00	-	-	KE	2
Bekiros, S.	dr	guest	-	-	0,00	0,00	KE	1
Cornea, A.	dr	postdoc	-	-	0,12	0,25	KE	3
Diks, C. (CeNDEF)	dr	uhd	0,60	-	-	-	KE	2
Diks, C. (CeNDEF)	dr	uhd	-	0,50	0,50	0,50	KE	1
Dindo, P.D.E.	msc	phd	0,60	-	-	-	KE	2
Furth, D.	dr	guest	0,00	0,00	0,00	0,00	KE	1
Heemeijer, P. (CeNDEF)	drs	phd	0,25	0,00	-	-	KE	1
Heemeijer, P. (CeNDEF)	drs	ud	-	0,50	-	-	KE	2
Heemeijer, P. (CeNDEF)	drs	ud	-	-	0,25	-	KE	3
Heemeijer, P. (CeNDEF)	dr	guest	-	-	-	0,00	KE	1
Heijnen, P.	dr	postdoc	0,08	0,80	0,54	-	KE	2
Heijnen, P.	dr	ud	-	-	0,16	0,50	KE	1
Hommes, C.H. (CeNDEF)	prof dr	hgl	0,50	0,50	0,50	0,50	KE	1
Kiseleva, T.	msc	phd	0,20	0,60	0,60	0,60	KE	2
Koster, M.A.L.	dr	ud	0,50	0,50	0,50	0,50	KE	1
Massaro, D.	msc	phd	-	0,20	0,60	0,60	KE	1
Mohammadian Moghayer, S.	msc	phd	0,20	0,60	0,60	0,60	KE	1
Ochea, M.I.	msc	phd	0,20	0,60	0,40	0,00	KE	1
Panchenko, V. (CeNDEF)	msc	phd	0,45	-	-	-	KE	1
Ramer, R.	dr	ud	0,00	0,15	0,30	0,08	KE	1
Tuinstra, J. (CeNDEF)	dr	uhd	0,50	0,50	0,50	0,50	KE	1
Wagener, F. (CeNDEF)	dr	uhd	0,50	0,80	0,80	0,80	KE	2
Weddepohl, H.N.	prof dr	guest	0,00	0,00	0,00	0,00	KE	1
Weide, R. van der (CeNDEF)	drs	phd	-	0,00	0,00	0,00	KE	1
Zeppini-Rossi, P.	msc	phd	-	-	0,20	0,60	KE	1
Zovko, I. (CeNDEF)	dr	guest	0,00	0,00	0,00	0,00	KE	1
Zhu, M.	dr	postdoc	-	-	-	0,33	KE	3

	<i>Total</i> <i>2006</i>	<i>Total</i> <i>2007</i>	<i>Total</i> <i>2008</i>	
Total 1st flow of funds	2,60	3,55	4,42	5,08
Total 2nd flow of funds	2,83	4,50	2,48	1,40
Total 3rd flow of funds	0,00	1,00	0,70	0,69
Total 1st f.o.f. excl. Ph.D.'s	1,50	2,15	2,62	3,08
Total 1st-3rd flow of funds	5,43	9,05	7,60	7,17
Ph.D. students	1,90	2,00	2,40	2,60

3.2 PROGRAMME DESIGN

The objective of the program is the development of (mathematical) economic theory, focussing on the understanding of economic processes. The program aims at developing models of economic behaviour in different areas of economics, including microeconomics, macroeconomics and finance. Emphasis is given to behavioural models of dynamic market phenomena.

The research group employs a multi-disciplinary approach. The models are studied both from a theoretical and a computational perspective, and the validity of the models is tested in laboratory experiments with human subjects as well as empirically using real data. The NWO-Vernieuwingsimpuls Information Flows in Financial Markets, the EU STREP project Financial Markets and Complexity and the NWO-VIDI program *Structural Stability in Economic Dynamics* are part of the research program.

The programme can be subdivided into five closely related and interacting research themes:

Equilibrium theory: Individual optimising behaviour of economic agents generates aggregate supply and demand of commodities, as a function of prices and individual expectations. In equilibrium supply and demand are equal. Many types of equilibrium can be studied: partial versus general, competitive versus monopolistic, dynamic versus static, temporary equilibrium, single, representative agent as well as heterogeneous, interacting agents equilibria. The existence of equilibria is studied, as well as conditions for stability or instability of dynamic adjustment processes.

Game theory & Industrial organisation: This part of the program focuses on modelling strategic behaviour of economic agents in markets with imperfect competition, such as duopoly and oligopoly. Equilibria in non-cooperative games (e.g. duopoly, oligopoly) as well as cooperative games (costs sharing, general equilibrium) are studied. Evolutionary games with heterogeneous, boundedly rational strategies competing against each other are also studied.

Expectations and learning: Bounded rationality models of expectation formation and learning schemes are becoming a serious alternative to rational expectations, which was the dominating paradigm until quite recently. The fully rational representative agent is replaced by a large *heterogeneous* population of boundedly rational interacting agents, who form expectations based upon time series observations and update their forecasting rules according to new observations and new information about market fundamentals. Conditions under which learning schemes converge to rational expectations or to a boundedly rational expectations equilibrium with excess volatility are investigated. Formation of expectations is studied in theory, in laboratory experiments with human subjects and in real markets.

Nonlinear economic dynamics: This part of the program focuses on nonlinear complexity models of dynamic market phenomena. Are market fluctuations mainly caused by random exogenous shocks, or can endogenous nonlinear economic laws of motion explain (a significant part of) the fluctuations? Various deterministic and stochastic economic models are studied theoretically, computationally as well as empirically, attempting to explain the most important stylised facts observed in real economic and financial time series. Emphasis is given to *complex adaptive systems* where markets consist of a large population of agents selecting simple strategies according to their

relative success in the recent past. In these evolutionary adaptive systems endogenous variables such as prices and agents' beliefs co-evolve over time.

Dynamic optimisation: Emphasis is given to dynamic optimisation problems in environmental economics, characterised by a conflict between economic benefits and ecological costs. Tools from nonlinear dynamics and bifurcation theory are employed to investigate non-convex dynamic optimisation problems. The main thrust is a structural analysis, that is, investigation of the global solution structure of dynamic optimisation problems and dynamic games. The qualitative changes of these solutions are studied under changes of the parameters. Geometrical methods, like bifurcation theory, normal form theory and perturbation theory, as well as numerical methods yield insights that hold not just at isolated parameter values, but for the complete parameter set.

3.3 PROGRAMME EVALUATION

This program grew out of a mathematical economics program *Equilibrium and Dynamics*, led by Weddepohl, which was quite small until the mid nineties. The group was extended considerably at the end of 1998, thanks to an NWO-MaG Pionier grant awarded to Hommes, to set up the Center for Nonlinear Dynamics in Economics and Finance (CeNDEF). At that time the program changed from a small specialized mathematical economics program into a multi-disciplinary research program with an emphasis on economic theory, but also running laboratory experiments (in cooperation with Joep Sonnemans at CREED) to test behavioural theories and doing empirical work as well (in cooperation with Peter Boswijk at UvA-Econometrics), in particular nonlinear time series analysis, to test behavioural models empirically. Weddepohl retired in 2002 and Furth and Koster joined the group in 2002, and game theory has been included as one of the research themes of the program. At the end of 2003, the CeNDEF postdocs Diks, Tuinstra and Wagener obtained tenured positions, so that the continuation of the research program has been ensured.

The year 2009 has again been a very good year. The output was 12 journal articles (of which 5 A publications) and 5 publications in books (amongst which one A). The research program was ranked as one of the three top programs at the FEB by the QANU "Visitatiecommissie" (Quality 4.5, Productivity 4.5, Relevance 5, Viability 5). From the report of the committee: "*The group (...) is developing very fruitful projects on highly topical current issues.*" The programme is internationally established, as is shown by excellent citation statistics (e.g. according to the Science Citation Index (SCI) in 2009 more than 260 citations of published work by group members and more than 1600 cumulative citations 1988-2009), many (invited) lectures at international seminars, conferences and workshops by various members of the research group. In the IDEAS/RePEc ranking of Top 20% institutes (<http://ideas.repec.org/top/top.netherlands.html>), CeNDEF ranks as number 14. This ranking contains faculties of economics and departments; among the small institutes of the order of a research group (about 10 researchers) CeNDEF ranks 3rd on the list (after the Finance Group UvA and Scholar, UvA).

Mei Zhu joined the group as postdoc in the EU-POLHIA project, Te Bao as PhD student. Peter Heemeijer finished his PhD thesis in 2009; at his new position at the Nederlandsche Bank, he is still involved in CeNDEF research activities.

The evaluation can be summarized in the following **SWOT analysis** of the CeNDEF activities.

Strengths: international reputation as an excellent research group on nonlinear dynamics and complexity applications in economics and finance, high scientific impact (e.g., with more than 240 citations, Brock and Hommes, *Econometrica* 1997 is one of the best cited journal articles co-authored by a Dutch economist), regular international visitors, active seminars and international workshops, own working paper series, frequently visited website, good facilities for computing and travel;

Weaknesses: relatively few publications in top mainstream journals, where multi-disciplinary work and non-mainstream approach such as agent-based modelling and complexity modelling are far from being well accepted; relatively few links with practitioners and policy applications;

Opportunities: development of UvA Graduate School in Economics; application of group-specific know-how to core economic problems, to demonstrate in this way the value of the programme's characteristic approach; developing more policy oriented research, e.g. through a new project on heterogeneous expectations in macro economics and monetary policy;

Threats: it remains difficult to attract suitable PhD from the Tinbergen Institute; more flexibility is needed, in particular the possibility to recruit PhD students from the UvA MSc Econometrics program or comparable relevant international MSc programs. A multidisciplinary group is likely to be handicapped when evaluated in a mono-disciplinary environment; finally, the complexity of the tools used may turn out to be an impediment at disseminating the research approach.

3.4 RESOURCES AND FUNDING

The budget received from RESAM every year (about 18.000 Euro) only covers on average one conference per researcher per year. In the last couple of years the remaining CeNDEF budget (from the NWO-Pionier grant 1998-2003) was able to cover additional conferences, workshops, etc., if desired. A budget of the Faculty covers some of the costs for the Economics Colloquia; another budget of the Tinbergen Institute covers the costs of joint research seminars *Institutions and Decision Analysis*, together with CREED (UvA) and the VU mathematical economics group.

The group has been quite successful in obtaining additional external funding. In July 2005 Wagener obtained a NWO-MaG *VIDI* grant for the research proposal “*Structural Stability in Economic Dynamics*”. This project employs tools from nonlinear dynamics and bifurcation theory to investigate non-convex dynamic optimisation problems characterized by a conflict between economic benefits and environmental externalities. In September 2006 two PhD students (Kiseleva and Mohammadian Moghayer) started working on this project and a postdoc (Heijnen) started in December 2006.

CeNDEF is part of a consortium of six research groups who obtained an EU FP7 grant for the collaborative project *Monetary, Fiscal and Structural Policies with Heterogeneous Agents* (POLHIA), which started november 2008 and will end october 2011. Mei Zhu has been appointed as post-doc under this program.

3.5 OUTPUT

Key publications

- Anufriev M., Bottazzi G. and Pancotto, F. (2006). Equilibria, stability and asymptotic dominance in a speculative market with heterogeneous agents. *Journal of Economic Dynamics and Control*, 30 (9-10), 1787-1835.
- Brock, W.A., Hommes, C.H. & Wagener, F.O.O. (2009). More hedging instruments may destabilize markets. *Journal of Economic Dynamics & Control*, 33, (11), 1912-1928.
- Diks, C.H.G. and Panchenko, V. (2006). A new statistic and practical guidelines for nonparametric Granger causality testing. *Journal of Economic Dynamics & Control*, 30, (9-10), 1647-1669
- Hommes, C.H. (2006), Heterogeneous Agent Models in Economics and Finance, In: L. Tesfatsion, K.L. Judd (eds.), *Handbook of Computational Economics*, Volume 2: Agent-Based Computational Economics, Elsevier Science B.V., 1109-1186
- Hommes, C.H., Sonnemans, J., Tuinstra, J. and Velden, H. van de, (2005), Coordination of expectations in asset pricing experiments. *Review of Financial Studies* 18, 955-980
- Schinkel, M.P., Tuinstra, J. & Rüggeberg, J. (2008). Illinois Walls: How barring indirect purchaser suits facilitates collusion, *RAND Journal of Economics* 39, 683-698.

Forthcoming

- Anufriev, M. and Dindo, P. (2010) “Wealth-driven Selection in a Financial Market with Heterogeneous Agents”, Forthcoming in *Journal of Economic Behavior and Organization*.
- Anufriev, M. and Hommes, C.H. (2010) “Evolution of Market Heuristic”. Forthcoming in *Knowledge Engineering Review*.
- Bekiros, S., (2010). Fuzzy Adaptive Decision-Making for Boundedly Rational Traders in Speculative Stock Markets. Forthcoming in *European Journal of Operational Research*.
- Diks, C.G.H., Panchenko, V. and Van Dijk, D. (2010), Out-of-sample comparison of copula specifications in multivariate density forecasts. Forthcoming in *Journal of Economic Dynamics and Control*.
- Diks, C. and Vrugt, J. (2010), Least squares hydrologic ensemble forecasting using Mallows model averaging. Forthcoming in *Stochastic Environmental Research and Risk Assessment*.
- Kiseleva, T., Wagener, F.O.O. (2010). Bifurcations of optimal vector fields in the shallow lake model. Forthcoming in *Journal of Economic Dynamics and Control*.
- Li, H.G., Yuan, M.Y. & Gao, Y. (2010). An Evolutionary Game Model of Financial Market with Momentum and Contrarian Players. Forthcoming in *Contributions to Game Theory and Management*.
- Zhu, M., Wang, D. & Guo, M. (2010). Existence and Stability of Stationary Solutions of Nonlinear Difference Equations under Random Perturbations. Forthcoming in *Journal of Difference Equations and Applications*.

Publications in numbers

Equilibrium, Expectations & Dynamics

				2009
1) Academic publications	a) in refereed journals	A	7	
		B	4	12
		C	1	
	b) in other journals			-
	c) book chapters	A	1	
		B	4	5
		C	-	
		Other		
	d) proceedings			2
Total				19
2) Monographs		A	-	
		B	-	0
		C	-	
3) Ph.D. theses				1
4) Professional publications				3
5) Popular publications				0
6) Working papers				20
Total				43

Dissertations

- Heemeijer, P. (2009, 29 January). *Expectation formation in dynamic market experiments*. Universiteit van Amsterdam. [promotores prof. dr C.H. Hommes, prof. dr J. Sonnemans][cat. I]

Academic publications (excluding publications in/of books) – refereed

A

- Anufriev, M. and Panchenko, V. (2009). Asset Prices, Traders’ Behavior and Market Design, *Journal of Economic Dynamics and Control*, 33, (5), 1073–1090. [A]

- Assenza, T. & Berardi, M. (2009). Learning in a credit economy. *Journal of Economic Dynamics and Control*, 33, (5), 1159-1169. [A].
- Assenza, T., Agliari, A., Delli Gatti, D. & Santoro, E. (2009). Borrowing constraints and complex dynamics in an OLG framework. *Journal of Economic Behavior & Organization*, 72, 656-669. [A]
- Brock, W.A., Hommes, C.H. & Wagener, F.O.O. (2009). More hedging instruments may destabilize markets. *Journal of Economic Dynamics and Control*, 33, (11), 1912-1928. [A].
- Furth, D. (2009). Anything goes with heterogeneous, but not always with homogeneous oligopoly. *Journal of Economic Dynamics and Control*, 33, (1), 183-203. [A].
- Gardini, L., Hommes, C.H., Tramontana, F. and de Vilder, R., (2009), Forward and backward dynamics in implicitly defined overlapping generations models, *Journal of Economic Behavior & Organization*, 71, 110-129. [A]
- Heemeijer, P., Hommes, C.H., Sonnemans, J. & Tuinstra, J. (2009). Price stability and volatility in markets with positive and negative expectations feedback: An experimental investigation. *Journal of Economic Dynamics and Control*, 33, (5), 1052-1072. [A].

B

- Heijnen, P. (2009). On the probability of breakdown in participation games. *Social Choice and Welfare*, 32, 493-511. [B].
- Vrugt, J., Braak, C.J.F. ter, Diks, C.G.H., Robinson, B.A., Hyman, J.M. And Higdon, D. (2009). Accelerating Markov chain Monte Carlo simulation by differential evolution with self-adaptive randomized subspace sampling. *International Journal of Nonlinear Sciences & Numerical Simulation*, 10, 273-290. [B]
- Wagener, F.O.O. (2009). On the Leitmann equivalent problem approach. *Journal of Optimization Theory and Applications*, 142, (1), 229-242. [B].
- Zhu, M., Chiarella, C., He, X. & Wang, D. (2009). Does the Market Maker Stabilize the Market? *Physica A*, 388, 3164-3180. [B].

Other

- Wang, Y., & Bao, T. (2009). The Theory of Interlinked Contract: Where do We Stand? *World Economics Papers* (in Chinese), 2009, (6), 49-66. [C].

Academic publications (in/of books) – refereed

A

- Hommes, C.H. and Wagener, F.O.O. (2009). Complex evolutionary systems in behavioral finance, In: Hens, T. and Schenk-Hoppé, K.R. (eds), *Handbook of financial markets: Dynamics and evolution* (pp. 217-276). Amsterdam: Elsevier. [A].

B

- Diks, C. (2009). Nonparametric tests for independence, In Meyers, R. (ed), *Encyclopedia of Complexity and Systems Science*. Berlin: Springer Verlag. [B].
- Hommes, C.H., (2009), Complexity, Evolution and Learning: a simple story of heterogeneous expectations and some empirical and experimental validation, In: A. Reggiani and P. Nijkamp, *Complexity and Spatial Networks*, Advances in Spatial Science, Springer Verlag, pp. 91-104.
- Hommes, C.H., (2009), Bounded Rationality and Learning in Complex Markets, In: *Handbook of Research on Complexity*, Edited by J. Barkley Rosser, Jr., Cheltenham: Edward Elgar, pp.87-123.
- Koster, M. (2009). Cost Sharing. In Meyers, R. (ed) *Encyclopedia of Complexity and Systems Science*, 1660-1689. Berlin: Springer-Verlag. [B]

Academic publications (in proceedings) – non-refereed

- Gao, Y. & Li, H.G. (2009). Expectations' self-fulfillment and self-destroying in socio-economic systems. *Second International Conference on Intelligent Computation Technology and Automation (ICICTA 2009)*, 4, 310-313.

Kiseleva, T., Wagener, F. (2009). Bifurcations of optimal vector fields: an overview. In Rodellar, J. and Reithmeier, E. (eds), *Proceedings of the 15th International Workshop on Dynamics and Control*, Barcelona.

Academic publications (working- and discussion papers)

- Anufriev, M., Assenza, T., Hommes, C. & Massaro, D. (2009) *Interest Rate Rules and Macroeconomic Stability under Heterogeneous Expectations*. TI Discussion Paper 2009-040, Tinbergen Institute.
- Anufriev, M. & Bottazzi, G. (2009) *Market Equilibria under Procedural Rationality*. CeNDEF Working paper 09-11. University of Amsterdam.
- Anufriev, M. & Branch, W.A. (2009) *Introduction to the Journal of Economic Dynamics and Control Special Issue on Complexity in Economics and Finance*. CeNDEF Working paper 09-01. University of Amsterdam.
- Anufriev, M. & Hommes, C.H. (2009) *Evolutionary Selection of Individual Expectations and Aggregate Outcomes*. CeNDEF Working paper 09-09. University of Amsterdam.
- Assenza, T., Berardi, M. & Delli Gatti, D. (2009), \square *Asset Prices and Monetary Policy: A New View of the Cost Channel*. CeNDEF Working paper 09-17. University of Amsterdam.
- Bao, T., & Wang Y. (2009). *Incomplete Contract and Divisional Structures*. Tinbergen Institute Discussion Paper 2009-075. Tinbergen Institute.
- Bekiros, S., (2009). *Boundedly rational learning and heterogeneous trading strategies with hybrid neuro-fuzzy models*. CeNDEF working paper 09-15, University of Amsterdam
- Bekiros, S., Georgoutsos, D., (2009). *Correlation Breakdown and Extreme Dependence in Emerging Equity Markets*. MWP Working Paper 2009/18, European University Institute
- De Gooijer, J.G., Diks, C.G.H., Gatarek, L.G. (2009), *Information Flows Around the Globe: Predicting Opening Gaps from Overnight Foreign Stock Price Patterns*, CeNDEF Working paper 09-13. University of Amsterdam
- Han, M.A., Schinkel, M.P. & Tuinstra, J. (2009). *The Overcharge as a Measure for Antitrust Damages*. ACLE Working Paper No. 2008-08. University of Amsterdam.
- Heijdra, B.J., Heijnen, P. (2009). *Environmental Policy and the Macroeconomy under Shallow-lake Dynamics*. CESifo Working Paper no. 2859.
- Hommes, C.H., Lux, T., (2009), Individual Expectations and Aggregate Behavior in Learning to Forecast Experiments, CeNDEF Working paper 09-03, University of Amsterdam.
- Hommes, C.H., Kiseleva, T., Kuznetsov, Y.A., Verbic, M. *Is more memory in evolutionary selection (de)stabilizing?* CeNDEF working paper 09-07. Universiteit van Amsterdam.
- Hommes, C.H. & Wagener, F.O.O. (2009). *Does educative stability imply evolutionary stability?* CeNDEF Working paper 09-10. University of Amsterdam
- Koster, M. Lindner, I., McCormick, G. & Owen, G. (2009) *Terrorist Targeting, Information, and Secret Coalitions*. TI Working Paper 12-2009. Tinbergen Institute, Amsterdam.
- Mohammadian Moghayer, S. & Wagener, F.O.O. (2009). *Genesis of indifference thresholds and infinitely many indifference points in discrete time infinite horizon optimisation problems*. CeNDEF Working paper 09-14. University of Amsterdam
- Sadiraj, V., Tuinstra, J. & Winden, F.A.A.M. van (2009). *Identification of Voters with Interest Groups improves the Electoral Chances for the Challenger*. Tinbergen Institute Discussion Paper 09-095/1.
- Wagener, F.O.O. (2009). *On conjugate points and the Leitmann equivalent problem approach*. CeNDEF Working paper 09-08. University of Amsterdam
- Wagener, F.O.O. (2009). *A parametrised version of Moser's modifying terms theorem*. CeNDEF Working paper 09-06. University of Amsterdam
- Wagener, F.O.O. (2009) *Shallow lake economics run deep: Nonlinear aspects of an economic-ecological interest conflict*. CeNDEF Working paper 09-05. University of Amsterdam

Professional publications

- Anufriev, M. & Branch, W.A. (2009). Editorial Introduction to Special Issue on Complexity in Economics and Finance, *Journal of Economic Dynamics and Control*, 33, 1019–1022.
- Haan, M.A., Heijnen, P., Soetevent, A.R. (2009, January 23). De prijseffecten van benzineveilingen. *Economisch Statistische Berichten*, 42-44.

Haan, M.A., Heijnen, P., Soetevent, A.R. (2009). The price effects of gasoline auctions. *Medium Econometrische Toepassingen*, 17, 12-17.

Contributions to academic conferences, workshops and seminars

- Anufriev, M. (2009, June 10). The impact of short-selling constraints on financial market stability, CeNDEF Seminar, University of Amsterdam.
- Anufriev, M. (2009, June 22). Evolution of market heuristics, Conference in honor of Roger Guesnerie, Paris School of Economics, Paris. Invited presentation.
- Anufriev, M. (2009, July 16). The impact of short-selling constraints on financial market stability, 15th International Conference on Computing in Economics and Finance, Sydney, Australia.
- Anufriev, M. (2009, August 13). Evolutionary selection of individual expectations and aggregate outcomes, Summer workshop at Stanford Institute for Theoretical Economics, USA. Invited presentation.
- Anufriev, M. (2009, October 3). Individual evolutionary learning in the double auction market with full or limited information, Workshop on Evolution and Market Behavior in Economics and Finance, Scuola Superiore Sant'Anna, Pisa, Italy. Invited presentation.
- Anufriev, M. (2009, October 22). Interest rate rules and macroeconomic stability under heterogeneous expectations. Sydney Agents Agent-based Modelling seminar, UTS, Sydney, Australia.
- Anufriev, M. (2009, October 29). The impact of short-selling constraints on financial market stability. The Paul Woolley Centre for Capital Market Dysfunctionalities, University of Technology, Sydney, Australia.
- Assenza, T. (2009, January 6-8). Learning in a Credit Economy. 10 Years of CeNDEF Workshop, University of Amsterdam. Invited presentation.
- Assenza, T. (2009, May 15-16). Experimenting with Expectations: From Individual Behavior in the Lab to Aggregate Macro Behavior. POLHIA workshop, University of Roma, La Sapienza, Rome, Italy. Invited presentation.
- Assenza, T. (2009, July 15-17). Experimenting with Expectations: From Individual Behavior in the Lab to Aggregate Macro Behavior. Computing in Economics and Finance (CEF), University of Technology, Sydney, Australia.
- Bao, T. (2009, 3 November). The Role of Expectation Feedback in Market Response to Large Unanticipated Shocks: An Experimental Study. CeNDEF lunch seminar, UvA, Amsterdam.
- Bekiros, S., (2009, 17 March). Department of Business Administration, University Carlos III. Madrid, Spain. Invited speaker.
- Bekiros, S., (2009, 8 April). Economics Department, Aristotle University Thessaloniki, Greece. Invited speaker.
- Diks, C.G.H. (2009, 6 January). Rank-based tests for serial independence. Conference "10 Years of CeNDEF", University of Amsterdam, Amsterdam.
- Diks, C.G.H., (2009, 16 April). Out-of-sample comparison of copula specifications in multivariate density forecasts. 17th SNDE annual symposium, Atlanta, GA
- Diks, C.G.H., (2009, 3 September). Keynote Lecture: Bounded rationality, herding, and endogenous evolution towards market instability. First International Workshop on Managing Financial Instability in Capitalistic Economies, Reykjavik, Iceland.
- Heijnen, P. (2009, January 7). Managing the Environment and the Economy in the Presence of Hysteresis and Irreversibility. Workshop in honor of William Brock. Amsterdam, the Netherlands.
- Heijnen, P. (2009, April 3). Sound Taxation? On the Use of Self-declared Value. European Meeting of the Public Choice Society. Amsterdam, the Netherlands.
- Heijnen, P. (2009, June 1). Managing the Environment and the Economy in the Presence of Hysteresis and Irreversibility. Nonlinear Economic Dynamics. Jönköping, Sweden.
- Heijnen, P. (2009, June 26). The Hartwick Rule as a Conservation Law. Meeting of the European Association of Environmental and Resource Economists. Amsterdam, the Netherlands.
- Heijnen, P. (2009, August 25). Do Auction and Forced Divestitures Increase Competition? Evidence for the Retail Gasoline Market. EEA 2009. Barcelona, Spain.
- Heijnen, P. (2009, September 3). Screening for Collusion: A Spatial Statistics Approach. EARIE 2009. Ljubljana, Slovenia.

- Hommes, C.H. (2009, January 8), Scientific contributions of William Allen Brock from a CeNDEF and a personal perspective, *Symposium in honour of William Brock*, Amsterdam.
- Hommes, C.H. (2009, January 23), Individual Expectations and Aggregate Behavior in Learning to Forecast Experiments, invited lecture *Conference Heterogeneous Agents in Financial Markets*, EUR, Rotterdam
- Hommes, C.H. (2009, February 26), Evolutionary Selection of Individual Expectations and Aggregate Outcomes, invited lecture Macro Seminar Centre d'Economie de la Sorbonne, Paris.
- Hommes, C.H. (2009, March 13), More hedging instruments may destabilize markets, *4th Tinbergen Institute Conference Crashes and systemic crises in financial markets: Implications for Banks, Investors and Macroeconomic Policy-makers*, Rotterdam.
- Hommes, C.H. (2009, April 28), Evolutionary selection of individual expectations and aggregate outcomes, Invited Seminar European University Institute, Firenze.
- Hommes, C.H. (2009, May 15), Interest Rate Rules and Macroeconomic Stability under Heterogeneous Expectations, *POLHIA Workshop*, Rome.
- Hommes, C.H. (2009, May 22), More hedging instruments may destabilize markets, invited lecture *Quantitative Finance Workshop on Financial Crises, Market Microstructure and Asset Pricing*, Rimini, RCEA.
- Hommes, C.H. (2009, June 29), The Heterogeneous Expectations Hypothesis: Some Evidence from the Lab, *FEB Lunchseminar*, Amsterdam.
- Hommes, C.H. (2009, July 15), The Heterogeneous Expectations Hypothesis: Some Evidence from the Lab, Invited Plenary Lecture *15th International Conference Computing in Economics and Finance*, Sydney, Australia, 15-17 July.
- Hommes, C.H. (2009, September 4), The Heterogeneous Expectations Hypothesis: Some Evidence from the Lab, *Amsterdam Symposium on Behavioral and Experimental Economics*, Amsterdam, 3-5 September, 2009.
- Hommes, C.H. (2009, October 2), The Heterogeneous Expectations Hypothesis: Some Evidence from the Lab, invited lecture *Evolution and Market Behavior in Economics and Finance*, Scuola Superiore Sant'Anna, Pisa, October 2-3.
- Hommes, C.H. (2009, October 26), The Heterogeneous Expectations Hypothesis: Some Evidence from the Lab, invited lecture *13th International School of Complexity, Econophysics Colloquium*, Centro Ettore Majorana, Erice, Sicily.
- Hommes, C.H. (2009, November 27), Heterogeneous Expectations in Complex Economic Systems: Some Evidence from the Lab, invited lecture, NOSMO lezing, Utrecht.
- Hommes, C.H. (2009, December 15), The Heterogeneous Expectations Hypothesis: Some Evidence from the Lab, invited Seminar ETH, Zürich.
- Hommes, C.H. (2009, December 15), More hedging instruments may destabilize markets, invited Seminar ETH, Zürich.
- Kiseleva, T. (2009, January). Bifurcations of optimal vector fields in the shallow lake model. Workshop "Ten years of CeNDEF". Amsterdam, The Netherlands.
- Kiseleva, T. (2009, May-June). Bifurcations of optimal vector fields in the shallow lake model. The 6th International Conference on Nonlinear Economic Dynamics. Jönköping, Sweden.
- Kiseleva, T. (2009, June). Bifurcations of optimal vector fields in the shallow lake model. EAERE 17th Annual Conference. Amsterdam, The Netherlands.
- Koster, M. (2009, 23 June). Consistent Cost Sharing. Workshop "Cooperative Game Theory and Applications", University of Caen Basse Normandie, France. Invited lecture.
- Koster, M. (2009, 2 July). Rationing and Cost Sharing. S.I.N.G. 5, Amsterdam, The Netherlands.
- Massaro, D. (2009, 15 July). Heterogeneous Expectations in Monetary DSGE Models. 15th International Conference on Computing in Economics and Finance. Sydney, Australia.
- Massaro, D. (2009, 24 November) Experimenting with Individual Expectations and Aggregate Macro Behavior. POLHIA Workshop. Amsterdam, The Netherlands.
- Mohammadian Moghayer, S. (2009, 15 May). Genesis of indifference thresholds in discrete-time economic dynamic optimisation problems. QED PhD conference, Amsterdam, The Netherlands.

- Mohammadian Moghayer, S. (2009, May 31-June 2). Genesis of indifference thresholds in discrete-time economic dynamic optimisation problems. 6th International Conference on Nonlinear Economic Dynamics (NED09). Jönköping, Sweden.
- Ochea, M.I. (2009, January 6-7). Heterogenous Learning Rules in Cournot and Bertrand Games. Workshop “10 years of CeNDEF”, Amsterdam.
- Ochea, M.I. (2009, April 21). Heterogenous Learning Rules in Cournot and Bertrand Games. Tinbergen Institute PhD lunch seminar, TIA.
- Ochea, M.I. (2009, May 31-June 2). Heterogenous Learning Rules in Oligopoly Games. The 6th International Conference on Nonlinear Economic Dynamics (NED09), Jönköping, Sweden.
- Ochea, M.I. (2009, July 1-3). Evolution in Iterated Prisoner’s Dilemma under Smooth Best-Reply Dynamics. Spain-Italy-Netherlands Meetings on Game Theory (S.I.N.G. 5), Vrije Universiteit Amsterdam.
- Ochea, M.I. (2009, July 13 – 17). Evolution in Repeated Prisoner’s Dilemma. 20th International Conference on Game Theory, Stony Brook, USA.
- Ochea, M.I. (2009, September 15-18). Evolution in Iterated Prisoner’s Dilemma under Smooth Best-Reply Dynamics (poster presentation). Conference “Evolution of Cooperation-Models and Theories”, IIASA, Laxenburg, Austria.
- Tuinstra, J. (2009, 6 January). OLG Experiments. CeNDEF Workshop: “Ten Years of CeNDEF”, University of Amsterdam, Amsterdam, The Netherlands.
- Tuinstra, J. (2009, 26 March). Expectations in the laboratory. Seminar Scuola Superiore Sant’Anna, Pisa, Italy. Invited lecture.
- Tuinstra, J. (2009, 30 April). The overcharge as a measure for antitrust damages. Seminar Andrew Young School of Policy Studies, Georgia State University, Atlanta, Georgia, U.S.A. Invited lecture.
- Tuinstra, J. (2009, 1 June). Positive welfare effects of barriers to entry in a dynamic equilibrium model. The 6th International Conference on Nonlinear Economic Dynamics (NED09). Jönköping University, Jönköping, Sweden.
- Tuinstra, J. (2009, 8 June). The overcharge as measure for antitrust damages. KAFFEE Lunch seminar, University of Amsterdam, Amsterdam, The Netherlands.
- Tuinstra, J. (2009, 26 June). Some experiments on expectations in financial market environments. IAS Workshop on ‘Experiments in Financial Markets’. Glasgow, United Kingdom. Invited lecture.
- Wagener, F.O.O. (2009, 7 January). The geometry of dynamic optimisation and differential games. CeNDEF Workshop: “Ten Years of CeNDEF”, University of Amsterdam, Amsterdam. The Netherlands.
- Wagener, F.O.O. (2009, 25 April). On the Leitmann equivalent problem approach. Spring Western Section Meeting of the AMS, San Francisco, USA.
- Wagener, F.O.O. (2009, 1 June). Bifurcations of optimal vector fields: an overview. 15th International Workshop on Dynamics and Control, Tossa de Mar, Spain.
- Wagener, F.O.O. (2009, 26 June). Managing the economy in the presence of hysteresis and irreversibility. EAERE 17th Annual Conference. Amsterdam, The Netherlands.
- Zeppini, P. (2009, 23 March). Evolution of industrial heuristics: costly innovators versus cheap imitators. DIMETIC doctoral school on Micro-approaches to innovation and innovation networks. Strasbourg, France.
- Zeppini, P. (2009, 7 April). Evolution of industrial heuristics: costly innovators versus cheap imitators. Tinbergen Institute PhD lunch seminar. Amsterdam, The Netherlands.
- Zeppini, P. (2009, 12 May). Optimal diversity in investment with recombinant innovation. DIME workshop on Environmental innovation. Utrecht, The Netherlands.
- Zeppini, P. (2009, 23 May). Optimal diversity in investment with recombinant innovation. 6th EMAEE conference on Evolution, behaviour and organizations. Jena, Germany.
- Zeppini, P. (2009, 23 June). Evolution of industrial heuristics: costly innovators versus cheap imitators. CeNDEF seminar. Amsterdam, The Netherlands.
- Zeppini, P. (2009, 30 June). Evolution of industrial heuristics: costly innovators versus cheap imitators. Innovation studies group seminar. Utrecht, The Netherlands.
- Zeppini, P. (2009, 15 July). Evolution of industrial heuristics: costly innovators versus cheap imitators. 15th International conference on computing in economics and finance, CEF2009. Sydney, Australia.

- Zeppini, P. (2009, 7 September). Optimal diversity in investment with recombinant innovation. FIRB-RISC conference on Research and entrepreneurship in the knowledge based economy. Milano, Italy.
- Zeppini, P. (2009, 13 October). Competing recombinant technologies for environmental innovation. CeNDEF seminar. Amsterdam, The Netherlands.
- Zeppini, P. (2009, 27 October). Competing recombinant technologies for environmental innovation. LEM seminar, Sant'Anna school for advanced studies. Pisa, Italy.
- Zeppini, P. (2009, 17 November). Competing recombinant technologies for environmental innovation. Tinbergen Institute PhD lunch seminar. Amsterdam, The Netherlands.

Organisational contributions to conferences, workshops and seminars

- Anufriev, M. (2009) Co-organizer of the seminar series “Economics Colloquia” at the Tinbergen Institute and University of Amsterdam.
- Bao, T. (2009). Co-organizer KAFEE seminar series. University of Amsterdam.
- Diks, C.G.H. (2009, 16-17 April). 17th SNDE annual symposium, Atlanta (GA).
- Diks, C.G.H. (2009, 6-7 January). Workshop "10 Years of CeNDEF", University of Amsterdam, Amsterdam.
- Diks, C.G.H. (2009, 8 January). Symposium in honour of Prof. Dr W.A. Brock, University of Amsterdam, Amsterdam.
- Diks, C.G.H. (2009, 6 April). Statistische Dag (Annual meeting of the Netherlands Society for Statistics and Operational Research), Vrije Universiteit, Amsterdam.
- Diks, C.G.H. (2009). Co-organizer of the “11th Workshop on Nonlinear Dynamics, Optimal Control and Dynamic Games”, University of Amsterdam, Amsterdam, The Netherlands, May 31 – June 2, 2010.
- Heijnen, P. (2009). Co-organizer of the “11th Workshop on Nonlinear Dynamics, Optimal Control and Dynamic Games”, University of Amsterdam, Amsterdam, The Netherlands, May 31 – June 2, 2010.
- Hommes, C.H. (2009, January 6-7). Co-organizer of the workshop “10 Years of CeNDEF”, University of Amsterdam, Amsterdam.
- Hommes, C.H. (2009, 8 January). Co-organizer Symposium in honour of Prof. Dr W.A. Brock, University of Amsterdam, Amsterdam.
- Koster, M. (2009). Member of the organizing committee of S.I.N.G. 5 (1-3 July), VU, Amsterdam.
- Ochea, M.I. (2009). CeNDEF seminar series, January-June 2009.
- Tuinstra, J. (2009). Co-organizer of the workshop “10 Years of CeNDEF”, University of Amsterdam, The Netherlands, January 6 – 7, 2009.
- Tuinstra, J. (2009). Co-organizer of the “11th Workshop on Nonlinear Dynamics, Optimal Control and Dynamic Games”, University of Amsterdam, Amsterdam, The Netherlands, May 31 – June 2, 2010.
- Wagener, F.O.O. (2009). Organizer of the “11th Workshop on Nonlinear Dynamics, Optimal Control and Dynamic Games”, University of Amsterdam, Amsterdam, The Netherlands, May 31 – June 2, 2010.

Participation in academic networks & fellowships

- Anufriev, M. (2009-) Junior Fellow Tinbergen Institute.
- Anufriev, M. (2005-) Associated Faculty, the Laboratory of Economics and Management (LEM), Scuola Superiore Sant'Anna, Pisa, Italy
- Diks, C.G.H. (2007-). Fellow Tinbergen Instituut.
- Diks, C.G.H. (2007-). Board member of the Society for Nonlinear Dynamics in Econometrics
- Diks, C.G.H. (2007-). Board Member (Secretary) of the Netherlands Society for Statistics and Operations Research
- Hommes, C.H. (2000-). Fellow of the Tinbergen Institute
- Tuinstra, J. (2003-). Research Fellow Tinbergen Instituut.
- Tuinstra, J. (2006-). Fellow Amsterdam Center for Law & Economics (ACLE)

Tuinstra, J. (2007-). Fellow Economics Network for Competition and Regulation (ENCORE)
Wagener, F.O.O. (2005-). Fellow of the Tinbergen Institute

Editor or member of editorial board

- Anufriev M. (2009). Special Issue Editor (jointly with W. Branch) for the proceedings (*Journal of Economic Dynamics and Control*) of the Lorentz Workshop on Complexity in Economics and Finance, 22-27 October 2007. Elsevier.
- Diks, C.G.H. (2009). Editorial board member of *Studies in Nonlinear Dynamics in Econometrics*.
- Hommes, C.H. (2002-). Editor *Journal of Economic Dynamics and Control*, Elsevier.
- Hommes, C.H. (1997-), Associate Editor, *Macroeconomic Dynamics*, Cambridge University Press.
- Hommes, C.H. (1998-). Associate Editor *Nonlinear Science*, Springer Verlag, Heidelberg.
- Hommes, C.H. (1998-). Associate Editor *Computational Economics*, Kluwer Academic Publishers, Dordrecht.
- Hommes, C.H. (2004-). Associate Editor *Journal of Economic Behavior & Organization*, Elsevier.
- Hommes, C.H. (2006-). Associate Editorial Board *Journal of Economic Interaction and Coordination*, Springer Verlag, Berlin-Heidelberg.
- Tuinstra, J. (2004-). Associate Editor *Journal of Economic Dynamics & Control*. Elsevier.

Referee activities

- Anufriev, M. (2009). Referee for *Journal of Economic Dynamics and Control*, *Journal of Evolutionary Economics*, *Macroeconomic Dynamics*, *Journal of Economic Behavior and Organization*, *Knowledge Engineering Review*, *Eastern Economic Journal*.
- Assenza, T. (2009). Referee for *Journal of Economic Dynamics and Control*, *Journal of Economic Behavior and Organization*
- Bekiros, S. (2009). Referee for: *IEEE-Transactions on Neural Networks*, *European Journal of Operational Research*, *Journal of Electromagnetic Waves and Applications*, *Progress In Electromagnetics Research*, *Asia Pacific Management Review*, *Journal of Asian Business Studies*.
- Diks, C. (2009). Referee for *Chaos*, *Discrete Dynamics in Nature and Society*, *Economics E-Journal*, *Energy Economics*, *Geophysical Journal International*, *Journal of Economic Dynamics and Control*, *Journal of Hydrology*, *Journal of International Money and Finance*, *New Journal of Physics*, *Stochastic Environmental Research and Risk Assessment*, *Studies in Nonlinear Dynamics and Econometrics*, *Statistical Papers*
- Heijnen, P. (2009). Referee for *Journal of Economic Dynamics and Control*, *Energy Economics*, *Waste Management Research*, *Energy Policy*, *Journal of Economics*.
- Hommes, C.H. (2009), Referee for *American Economic Review*, *European Journal of Finance*, *Journal of Economic Methodology*, *Quantitative Finance*.
- Kiseleva, T. (2009). Referee for *Journal of Economic Dynamics and Control*.
- Koster, M. (2009). Referee for *Mathematical Methods of Operations Research*, *Mathematical Social Sciences*, *Games and Economic Behavior*, *International Journal of Game Theory*.
- Massaro, D. (2009). Referee for *Journal of Economic Dynamics and Control*.
- Ochea, M.I. (2009). Referee for *Journal of Economic Dynamics and Control*.
- Tuinstra, J. (2009). Referee for *Applied Mathematics and Computation*, *Economics Bulletin*, *Economic Modelling*, *European Economic Review*, *Journal of Economic Dynamics & Control*, *Macroeconomic Dynamics*, *Mathematical Methods of Operations Research*, *Review of Industrial Organization*.
- Wagener, F.O.O. (2009). Referee for *Applied Mathematics and Computation*, *Discrete and Continuous Dynamical Systems*, *Environmental and Resource Economics*, *Economic Modelling*, *Ecological Economics*, *Ecology and Society*, *German Economic Review*, *Journal of Behavior and Organization*, *Journal of Economic Dynamics & Control*, *Journal of Economic Theory*, *Journal of Mathematical Economics*, *Journal of Optimization Theory and Applications*, *Mathematical Reviews*, NWO, *Optimal Control: Applications and Methods*.

Membership of academic committees (including Ph.D. committees outside the FEB)

Hommes C.H. (2009, 22 January), Ph.D. committee Remco Zwinkels, Heterogeneous agents in financial markets, Radboud Universiteit Nijmegen

Grants, prizes and honours

Anufriev, M. & Tuinstra, J. (2009). Research grant for the paper *The impact of short-selling constraints on financial market stability*. The Paul Woolley Centre for Capital Market Dysfunctionality, University of Technology, Sydney, Australia.

Hommes, C.H. (2009, January 8), ``ere-promotor” for the honorary degree awarded by UvA to William Brock (University of Wisconsin) for his *fundamental contributions to a better understanding of complex dynamic processes in economics*.

Various activities

Hommes, C.H. (2008-2009), member of the scientific committee preparing the NWO strategic theme document *Complexity*

CHAPTER 4: ACTUARIAL SCIENCE

<i>Programme director:</i>	<i>Prof.dr.ir. M.H. Vellekoop</i>
<i>Department:</i>	<i>Quantitative Economics</i>
<i>METIS code:</i>	<i>uva/fee/res/act/prog</i>
<i>JEL-classification:</i>	<i>C, G2</i>
<i>Starting date programme:</i>	<i>1989</i>
<i>VSNU-scores 2001-2007:</i>	<i>Quality: 4, Productivity: 4, Relevance: 5, Viability: 3.5</i>

4.1 MEMBERS OF THE RESEARCH GROUP AND RESEARCH IN FTES

<i>Name</i>	<i>Title</i>	<i>Function</i>	<i>Total 2006</i>	<i>Total 2007</i>	<i>Total 2008</i>	<i>Total 2009</i>	<i>Dept</i>	<i>Funding</i>
Antonio, K.	dr	ud	-	0,12	0,50	0,50	KE	1
Cao, J.	msc	phd	0,12	0,36	0,36	0,3	KE	3
Chen, A.	dr	postdoc	-	0,8	0,53	-	KE	3
Cui, J.	dr	ud	-	-	-	0,05	KE	1
Dhaene, J.	prof dr	hgl	0,00	0,00	0,00	0,00	KE	3
Goovaerts, M.J.	prof dr	bijz. hgl	0,21	0,21	0,21	0,21	KE	3
Haastrecht, A. van	drs	phd	-	0,12	0,60	0,20	KE	1
Janssen, M.J.J.	drs	phd	-	0,15	0,20	0,20	KE	3
Joseph, A.S.	drs	phd	-	0,15	0,10	0,20	KE	3
Kaas, R.	prof dr	hgl	0,50	0,50	0,50	0,50	KE	1
Kaas, R.	prof dr	hgl	-	0,10	0,10	-	KE	3
Kuné, J.B.	prof dr	hgl	0,15	0,15	0,15	0,15	KE	1
Laeven, R.	dr	ud	0,25	-	-	-	KE/BS	2
Pelsser, A.J.	prof dr	hgl	0,06	0,20	0,20	0,10	KE	3
Pelsser, A.J.	prof dr	hgl	-	0,50	0,50	0,25	KE	1
Plat, H.J.	drs	phd	-	0,15	0,20	0,20	KE	3
Ponds, E.H.M.	dr	oz	0,00	-	-	-	KE	3
Ronner, A.E.	prof dr	hgl	-	0,03	0,10	0,10	KE	3
Rijckevorsel, J.L.A.	prof dr	hgl	-	0,05	0,20	0,20	KE	3
Schrager, D.F.	drs	phd	0,00	-	-	-	KE	1
Tamerus, J.H.	drs	oz	0,10	0,00	0,00	0,00	KE	1
Tomas, J.	msc	phd	0,60	-	-	-	KE	1
Vanduffel, S.	dr	postdoc	0,14	-	-	-	KE	2
Vellekoop, M.	prof dr	hgl	-	-	-	0,13	KE	1
Willemse, W.J.	dr	ud	0,25	-	-	-	KE	3
Willemse, W.J.	dr	ud	-	0,21	0,21	0,21	KE	1
Wolthuis, H.	prof dr	hgl	0,20	0,06	-	-	KE	1
Total 1st flow of funds			1,55	1,66	2,46	1,99		
Total 2nd flow of funds			0,39	0,00	0,00	0,00		
Total 3rd flow of funds			0,64	2,20	2,20	1,51		
Total 1st f.o.f. excl. Ph.D.'s			0,95	1,09	1,36	1,79		
Total 1st-3rd flow of funds			2,58	3,86	4,66	3,50		
Ph.D. students			0,72	0,93	1,46	1,10		

4.2 PROGRAMME DESIGN

The programme concerns both fundamental and applied research in the field of financial institutions. It is mainly directed at insurance companies (for life, non-life, pension and social insurance), but also at banks and other financial intermediaries. Research is performed on the mathematical modeling, estimation,

appraisal and control of financial risks of such financial institutions under complete and incomplete information and for complete and incomplete markets. For long term insurance contracts, especially pensions, saving by insurance is significant, which leads to the study of optimal investment and consumption problems. An increasingly important aspect is the influence of the "risk of longevity" on the policies of life insurance, social insurance and care insurance. Newly reported statistics show that life expectancy continues to rise faster than predicted both in the Netherlands and abroad, and the modeling of this effect and its consequences for life insurance policies and pension contracts therefore remains an important area of investigation. Present-day challenges for non-life insurance contracts include decreasing profit margins, increasing competition and selective behaviour of the insured and of insurance companies. In social insurance, there are specific problems that emerge from the privatisation of social insurance contracts. Apart from studying problems in the separate fields of life, non-life, pension and social insurance, work is also done on the theoretical research subject which concerns the unification of several distinct actuarial theories in these fields, and their connection with stochastic financial mathematics.

Supervision and regulation of insurance companies and pension funds form an important part of the field of actuarial research. Methods for risk measurement and the determination of solvency requirements have come under intensified scrutiny in the wake of the recent financial crisis. The new European regulatory framework Solvency II for insurers and the Dutch FTK regulation for pension funds lead to many important new research questions. The Actuarial Science group therefore works on the further development of actuarial risk theory, in particular the development of new mathematical and economic models in the fields of market-consistent valuation, market-consistent pricing and market-consistent embedded value for insurance portfolios.

Other significant fields of research are the interaction between credibility theory, models for the estimation of unreported claims (IBNR) and actuarial ordering of risks, and their consequences for the determination of insurance premiums (risk classification). Credibility models can be viewed as Generalized Linear Mixed Models, having both random (subject-specific) and fixed effects in the linear predictor. Generalized Linear Models and Generalized Linear Mixed Models can be used for a variety of actuarial statistical problems like survival modelling, graduation, multiple-state models, loss distributions, risk classification, premium rating and claims reserving in non-life-insurance. Other aspects are the homogeneity and heterogeneity of insurance portfolios, the probabilistic and subsidising solidarity imposed on the insured, the voluntary or compulsory character of the insurance, and the auto-selection and anti-selection of those insured.

4.3 PROGRAMME EVALUATION

A lot of research that is carried out on the group is done in close collaboration with researchers from other academic institutions in established research networks, both in the Netherlands and internationally. From April 2006 until April 2009, our group hosted a €1mln Netspar theme "Valuation and Risk Management for Insurance Companies and Pension Funds" which was coordinated by Professor Antoon Pelsser. The fact that five PhD students in the project (Cao, Plat, Janssen, Van Haastrecht, Joseph) worked part-time in the insurance industry underlines the close connection between our research group and industrial partners. These close connections ensure that our academic publications are complemented by several publications in the professional literature in which members of our group contribute to the debates on relevant current topics such as pension reform, the effects of increased life expectancy, and the impact of the financial crisis. Antoon Pelsser was a member of the Dutch Actuarial Society committee on the use of term structures of interest in actuarial calculations. The report in which the committee published its findings came out in the fall of 2009 and it promises to be very influential in the debate on this important issue.

From October 2009 on, a new Netspar theme "Reconciling Short Term Risks and Long Term Goals for Retirement Provisions" will be hosted by the group, with Michel Vellekoop as theme coordinator. The 500k€ theme will involve collaboration between researchers from the Universities of Amsterdam, Tilburg

and Twente, and the London School of Economics. Participants from the UvA will come from the Actuarial Sciences group but also from the Finance group in the FEB, thus creating new opportunities for cooperation within the faculty. The research questions of the theme focus on the severe consequences for insurance companies and pension funds of the current financial crisis. The effect of falling equity prices and lower interest rates on for example the funding ratios of pension funds have been dramatic. It is to be expected that a new regulatory framework will be defined to determine the amount of risk that life insurance companies and pension funds will be allowed to take in the future. Such new regulation must implement a careful trade-off between long term goals for investment strategies and short term constraints on the associated risks. The Netspar theme will deal with the question how such a trade-off should be made. It will thus provide a scientific framework for the difficult decisions that must be made by insurance companies and pension funds in the wake of the financial crisis. The two new researchers who have joined the group in 2009, Jijia Cui and Michel Vellekoop, will both work on this Netspar theme.

In November 2009 a 250k€ grant has been awarded by NWO to the VENI research proposal submitted by Katrien Antonio. In the research project, claims reserving techniques for non-life insurance products such as motor insurance are analyzed at the level of individual policies instead of in aggregated form. The statistical methods that need to be applied for such detailed micro level data will be inspired by methods that are already applied in the analysis of life insurance products. As such, the project will generate the theoretical innovations that will allow actuaries to fully exploit the exciting new possibilities that increased computer power and better databases currently offer. The research will be carried out in cooperation with the University of Wisconsin (Madison) and the University of Connecticut. The international contacts of the group have been further strengthened by a research visit of Michiel Janssen at the Finance group of the Anderson School of Management in UCLA during the fall of 2009.

Our textbook *Modern Actuarial Risk Theory* book is in use at many universities, in the Netherlands and elsewhere. In the second edition that appeared in 2008, much new material was added about simulation of risk processes, as well as about correlations and risk measures. Furthermore, by incorporating the R language as a main tool, a connection is laid with the ongoing projects involving R all over the academic world. In 2009, translations into Turkish and Farsi were started, next to the already existing Chinese and Russian versions. Our international visibility is also enhanced by the continuing involvement of our group in the organization of important international actuarial conferences such as the Insurance Mathematics & Economics conferences (this year in Istanbul, next year Toronto), the biannual ICCAM conferences originated at the KU Leuven, the conferences at the University of the Aegean (Samos), as well as the Brazilian Conferences on Statistical Modelling in Insurance and Finance (Ubatuba). Closer to home, research seminars were organized within the Amsterdam Center for Insurance Studies (ACIS), a joint initiative of the Dept of Actuarial Science and the Faculty of Law which is funded by the Dutch Association of Insurers ("Verbond van Verzekeraars"). Topics for these seminars are chosen in order to interest both academics and practitioners.

The cooperation with our Belgian colleagues at the KU Leuven in the large GOA Project called "Actuarial, financial and statistical aspects of dependencies in insurance and financial portfolios" continues, and also with other Belgian university researchers. With this international co-operation, we succeeded in becoming one of the few university groups involved in the project concerning R(isk) B(ased) C(apital) evaluations, which will to some extent form the basis of the new IAS 52 reporting. We refer to the "Report of Solvency working party" (www.iasb.org.uk and www.actuaries.org). As a consequence we are also involved in the IAA Risk-Based Capital Solvency Structure working party. The application of risk orders and comonotonicity for describing the role of economic capital and capital allocation taking into account diversification effects has influenced the RBC-approach from the IAA and the S&P rating agency. Some may serve as a basis (and are in fact a breakthrough) for the capital adequacy of financial conglomerates. In the GOA-framework, a project 'Joint power fuel model' resulted in a PhD defended by Slimane Grine. The study describes the use of the Multi Layer Model to model European energy prices. The computations can be performed quickly and partially analytically, making it possible to implement the model in Electrabel's real time trading platform.

Another research project in this framework studies 'Risk Modeling and Valuation of Insurance and Financial Cash Flows, with Applications to Pricing, Provisioning and Solvency'. Existing methods are compared with newly developed methods to value actuarial or financial future cashflows, to obtain a deeper insight into how 'regulatory capital' as well as 'economic capital' should be determined. It focuses on insurance liabilities for which in general no trading market exists. In a related project, multidimensional risks are studied. The main topics of research are modelling and measuring multidimensional risks, worst case risk management with given marginal distributions, modelling dependence and inference in a continuous setting and allocation of risk capital.

The 2009 Research Review for Economics and Business Sciences by QANU gave the following assessment marks for the Actuarial Science group: 4 for Quality, 4 for Productivity, 5 for Relevance and 3.5 for Viability. The committee stated that the group produces high-quality research in the specific field of actuarial science, which emphasizes the mathematical and probabilistic aspects of the subject. It praised the active interaction with the actuarial profession, which guarantees the relevance of the subjects treated in research, and the high productivity of the group. The committee expressed some concern on the number of PhD theses and the fact that research relies to a large extent on external funding. The group actively addresses these issues with the newly awarded Netspar project and two planned new PhD positions.

In the wake of the financial crisis, the field of actuarial science is faced by some new challenges and a shifting emphasis in research agendas. The group's work on financial economic valuation and risk management techniques is, in the words of the QANU committee, at the frontier between finance, economics and applied mathematics. Our research will thus continue to be very relevant, both for the development of actuarial theory of the highest academic standard and for the design of practical methods for actuarial professionals who are confronted by challenging new questions.

4.4 RESOURCES AND FUNDING

Below are several Research grants awarded to members of the group:

01/2006 – 12/ 2009. FWO Research Project, Project G.0280.06, Modern perspectives in claims reserving for non-life insurance, promoter: Jan Dhaene, co-promoter: Jan Beirlant, researcher: Tom Hoedemakers. € 177 716.

04/2006 – 03/2009. Netspar theme grant: Valuation and Risk Management for Insurance Companies and Pension Funds, theme coordinator: Antoon Pelsler, €1.000.000.

10/2009 – 09/2012. Netspar theme grant: Reconciling Short Term Risks and Long Term Goals for Retirement Provisions, theme coordinator: Michel Vellekoop, €500.000.

10/2006 – 09/2011. Concerted Research Action of the K.U. Leuven Research Fund, Project G.O.A./2007/, Risk modeling and valuation of insurance and financial cash flows, with applications to pricing, provisioning and solvency, promoter: Marc Goovaerts, co-promoter: Jan Dhaene. € 60 000 per year.

10/2006 – 9/2011. Fortis Chair on Financial and Actuarial Risk Management, Fortis Central Risk Management, chairholder (with Marc Goovaerts and Steven Vanduffel).

11/2009 – 11/2012. VENI grant (NWO Vernieuwingsimpuls/Innovational Research Incentives Scheme) 'Non-life: A Life Insurance Approach', dr. Katrien Antonio, €250.000.

4.5 OUTPUT

Key publications

- van Haastrecht, A. & Lord, R. & Pelsser, A. & Schrager, D. (2009). Pricing long-dated insurance contracts with stochastic interest rates and stochastic volatility, *Insurance: Mathematics and Economics*, 45, pp. 436-448.
- Hoedemakers, T., Beirlant, J., Goovaerts, M.J. & Dhaene, J. (2005). On the distribution of discounted loss reserves using generalized linear models. *Scandinavian Actuarial Journal*, pp. 25-45.
- Kaas, R., Goovaerts, M.J., Dhaene, J. & Denuit, M. (2008). Modern actuarial risk theory — Using R. 2nd edition. Springer.
- R. Kaas, R.J.A. Laeven, R.B. Nelsen, (2009). Worst VaR scenarios with given marginals and measures of association, *Insurance: Mathematics and Economics* 44.2, pp. 146-158.
- Schrager, D. & Pelsser, A. (2006). Pricing Swaptions and Coupon Bond Options in Affine Term Structure Models. *Mathematical Finance*, 16 (4), pp. 673-694.

Forthcoming

- Antonio, K., Frees, E. & Valdez, E. (2010). A multilevel analysis of intercompany claim counts. Forthcoming in *ASTIN Bulletin*.
- van Haastrecht, A. & Pelsser A. (2010). Efficient, Almost Exact Simulation of the Heston Stochastic Volatility Model. Forthcoming in *International Journal of Theoretical and Applied Finance*.
- Joseph, A.S., Roodenburg, L. (2010). Influence of regulation on pensionpolicies' ('Invloed van toezicht op pensioenbeleid'). Forthcoming in *De Actuaris*.
- Joseph, A.S., Jong, D.A. de, (2010). Pensionmanagement based on various risk- and return measures ('Sturen op meer risico en rendementsmaten'). Forthcoming in *IPN*.
- Joseph, A.S., Jong, D.A. de, (2010). Het pensioenlabel als basis voor toezicht, Forthcoming as *Netspar NEA paper*
- Goettsche, O. & Vellekoop, M.H. (2010). The Early Exercise Premium for the American Put under Discrete Dividends. Forthcoming in *Mathematical Finance*.
- van Haastrecht, A. & Plat, R. (2010). Een alternatief pricing model voor inflatie. Forthcoming in *De Actuaris*.
- van Haastrecht, A. & Plat, R. (2010) An alternative pricing model for inflation, Forthcoming in *Aenorm*.
- Vellekoop, M.H. (2010). Forwards and Futures. Forthcoming in *Wiley Encyclopedia of Quantitative Finance*.

Publications in Numbers

<i>Actuarial Science</i>				2009
1) Academic publications	a) in refereed journals	A	8	16
		B	2	
		C	6	
	b) in other journals			3
		c) book chapters	A	1
		B	-	
		C	-	
	d) proceedings	Other	-	0
		Other		20
	Total			
2) Monographs		A	-	0
		B	-	
		C	-	
		Other	-	
3) Ph.D. theses				2
4) Professional publications				7
5) Popular publications				6
6) Working papers				16
Total				51

Dissertations

- Chen, X. (2009, december 17), *Super-replicating exotic options, allocating capital and approximating aggregate claims distributions using the comonotonic approach*, K.U. Leuven. [Promoter J. Dhaene]. [Cat. IV]
- Cui, J. (2009, 16 januari), *Essays on Pension Scheme Design and Risk Management*, Universiteit van Tilburg. [Promotores: Frank de Jong, Eduard Ponds]. [Cat. IV]-

Academic publications (excluding publications in/of books) – refereed

A

- Decamps, M., Schepper, A. de & Goovaerts, M. (2009). Spectral decomposition of optimal dividend strategies, *Journal of Economic Dynamics and Control*, 33, (5), (2009) 710–724. [A]
- Dhaene J., Denuit M. & Vanduffel, S. (2009). Correlation order, merging and diversification. *Insurance: Mathematics and Economics*, 45, (3), 325-332. [A]
- Kaas, R., Laeven, R.J.A. & Nelsen, R.B. (2009). Worst VaR scenarios with given marginals and measures of association, *Insurance: Mathematics and Economics*, 44, (2), 146-158. [A]
- Plat, R. & Pelsser, A. (2009). “Analytical approximations for prices of swap rate dependent embedded options in insurance products”, *Insurance: Mathematics and Economics*, 44, (1), 124-134. [A]
- Plat, R. (2009). Stochastic portfolio specific mortality and the quantification of mortality basis risk, *Insurance: Mathematics and Economics*, 45, (1), 123-132. [A]
- Plat, R. (2009). On stochastic mortality modeling, *Insurance: Mathematics and Economics*, 45, (3), 393-404. [A]
- Valdez E., Dhaene J, Maj M. & Vanduffel S. (2009). Bounds and approximations for sums of dependent log-elliptical random variables. *Insurance: Mathematics & Economics*, 44, (3), 385-397. [A]
- van Haastrecht, A., Lord, R., Pelsser, A. & Schrager, D. (2009). “Pricing long-dated insurance contracts with stochastic interest rates and stochastic volatility”, *Insurance: Mathematics and Economics*, 45, (3), 436-448. [A]

B

- Vanduffel, S., Chen, X., Dhaene, J., Goovaerts, M., Henrard, L. & R. Kaas (2009). Optimal approximations for risk measures of sums of lognormals based on conditional expectations, *Journal of Computational and Applied Mathematics*, 221, (1), 202-218. [B]
- Verdonck T., Wouwe, M. van & Dhaene J. (2009). A robustification of the chain-ladder method. *North American Actuarial Journal*, 13, (2), 280-298. [B]
- Other

- Darkiewicz, G., Deelstra G., Dhaene J., Hoedemakers T. & Vanmaele M. (2009). Bounds for right tails of deterministic and stochastic sums of random variables. *Journal of Risk and Insurance*, 76, (4), 847-866.
- Doff, R.R. (2009) “Solvency II bij verzekeraars: een analyse van jaarrekeningen” *Maandblad voor Accountancy en Bedrijfseconomie*, 2009, (11).
- Doff, R.R., Bilderbeek, J., Bruggink, B. & Emmen, P. (2009). “Performance Management in Insurance Firms by Using Transfer Pricing” *Risk Management and Insurance Review*, vol 12, no 9, 213-226.
- Kuné, J.B. (2009). Bevolkingsveroudering en welvaart, *Kwartaalschrift Economie*, 6, (2), 7-28.
- Kuné, J.B. (2009). Population aging and welfare: the case of the Netherlands, *Pensions, an international journal*, 14, (4), 231-241.
- Vellekoop, M.H. & Nieuwenhuis, J.W. (2009) A Tree-based method to price American Options in the Heston model, *Journal of Computational Finance*, 13, (1), 1-21. [Aanvraag]

Academic publications (in/of books) – refereed

A

- Laeven, R.J.A. & Goovaerts, M. (2008). Premium calculation and insurance pricing, In Melnick, E.L. & Everitt, B.S. (eds) *Wiley Encyclopedia of Quantitative Risk Assessment*. New York: Wiley & Sons. [A]

Academic publications (in proceedings) – non-refereed

- Antonio, K., Frees, E. & Valdez, E. (2009). A multilevel analysis of intercompany claim counts. *ARCH 2009.1, Proceedings of the 43rd Actuarial Research Conference in Regina, Saskatchewan, Canada*
- Haastrecht, A. van & Pelsser, A. (2009). “Generic Pricing of FX, Inflation and Stock options under Stochastic Interest Rates and Stochastic Volatility”, *Proceedings of the 8th Actuarial and Financial Mathematics Conference*.
- Vellekoop, M.H. and Davis, M.H.A. (2009). An optimal investment problem with randomly terminating income, *Proceedings of the 48th CDC Conference*, December 2009, pp. 3650-3655, Shanghai, ISBN 978-1-4244-3872-3.
- Vellekoop, M.H. and Vlaming, G. (2009). Pricing American options with the SABR model, *Proceedings of the 2009 IEEE International Symposium on Parallel and Distributed Processing*, Rome, ISBN 978-1-4244-3751-1.

Academic publications (excluding publications in/of books) – non-refereed

- Doff, R.R. (2009) De Impact van de kredietcrisis op verzekeraars. *Economisch Statistische Berichten*, 94, (4554), 121-123
- Kuné, J.B. (2009). Hoezo, een robuust pensioensysteem?, *Tijdschrift voor Pensioenvraagstukken*, oktober 2009, 152-159
- Tamerus, J. (2009). Durven we de nominale garantie los te laten? *Tijdschrift voor Pensioenvraagstukken*, april 2009

Academic publications (working- and discussion papers)

- Bragt, D. van, Francke, M., Kramer, B. & Pelsser, A. (2009). Risk-Neutral Valuation Of Real Estate Derivatives. Universiteit van Amsterdam.
- Chen, A., Pelsser, A. & Vellekoop, M.H. (2008) Optimal Investment And Indifference Pricing under SAHARA Utility. Universiteit van Amsterdam.
- Chen, A., Pelsser, A. & Vellekoop, M.H. (2008) Approximate Solutions for Indifference Pricing with General Utility Functions. Universiteit van Amsterdam. Universiteit van Amsterdam.
- Cui, J., Ponds, E. & de Jong, F., (2009). Intergenerational risk sharing within funded pension schemes. Universiteit van Amsterdam.
- Cui, J. (2009). What should your DC default be ?. Universiteit van Amsterdam.
- Cui, J. (2009). Longevity Risk pricing. Universiteit van Amsterdam.

- K. Van Weert, J. Dhaene, M. Goovaerts (2009). Optimal portfolio selection for general provisioning and terminal wealth problems. Universiteit van Amsterdam.
- M. Goovaerts, R. Kaas, R. Laeven (2009). On risk measures and decisions in insurance and finance: axiomatization, optimization and equilibrium (Previous title: Decision Principles derived from risk measures). Universiteit van Amsterdam.
- Van Haastrecht, A., Plat, R., & Pelsser (2009). Valuation of Guaranteed Annuity Options using a Stochastic Volatility Model for Equity Prices. Universiteit van Amsterdam.
- Van Haastrecht, A. & Pelsser, A. (2009). Accounting for Stochastic Interest Rates, Stochastic Volatility and a General Correlation Structure in the Valuation of Forward Starting Options. Universiteit van Amsterdam.
- Van Haastrecht, A. & Plat, R. & Pelsser, A. (2009). Valuation of Guaranteed Annuity Options using a Stochastic Volatility Model for Equity Prices. Universiteit van Amsterdam.
- Van Haastrecht, A. & Lord, R. & Pelsser, A. (2009). Monte Carlo Pricing in the Schöbel-Zhu Model and its Extensions. Universiteit van Amsterdam.
- Kleinow, T. and Pelsser, A. (2008), Utility Maximization under Solvency Constraints and Unhedgeable Risks. Universiteit van Amsterdam.
- Minina, V. and Vellekoop, M.H., (2009) A Risk Reserve Model for Hedging in Incomplete Markets. Universiteit van Amsterdam.
- Vellekoop, M.H. and Nieuwenhuis, J.W., (2009) The Early Exercise Premium for American Put options on Stocks With Dividends. Universiteit van Amsterdam.
- Jourdain, B. and Vellekoop, M.H.. (2009) Regularity of the Exercise Boundary for American Put Options on Assets with Discrete Dividends. Universiteit van Amsterdam.

Professional publications

- Kuné, J.B. (2009). Omzien in verwondering, *Pensioen-Magazine*, 14, 22-25.
- Kuné, J.B. (2009). Afscheid van de AOW, *Pensioen-Magazine*, 14, 10-11.
- Pelsser, A, and Peter Vlaar (2009), Market-Consistent Valuation of Pension Liabilities. *Netspar Panel Paper*, 11.
- Plat, R. (2009). Stochastische ervaringssterfte, *De Actuaris*, 16, (6), 36-8.
- Plat, R. (2009). Een nieuw stochastisch (bevolkings)sterftemodel, *De Actuaris*, 16, (4) 40-43.
- Tamerus, J. (2009) Dilemma's voor beleggingsbeleid, Pensioenfonds klem tussen reële ambitie en nominaal kader, *Pensioen Bestuur & Management*, 2009, (1).
- Tamerus, J. (2009) Van Marken wijst nog steeds de weg, Gooi het systeem niet weg verander de invulling, *Pensioen Bestuur & Management*, 2009, (4).

Popular publications

- Kuné, J.B. (2009). Pensioen Pantheon: een schitterend ongeluk, *ABP Wereld*, pp. 22-23
- Kuné, J.B. (2009) Tel uw zegeningen, *Pensioen-belangen*, 72, no. 3, pp. 20-21
- Rijckevorsel, J.L.A., van. (2009) Verzekeraars en de kredietcrisis. *Tijdschrift voor Bank & Effectenbedrijf* (B&E), januari/februari issue.
- Vellekoop, M.H. (2009). De Financieel Wiskundige. *Pythagoras* 49(2), pp. 6-9.
- Pelsser, A. (2009) Waarom het Nederlandse pensioensysteem tegen een stootje kan. *Het Financieele Dagblad*, 10 Februari 2009
- Willemsse, W.J. and van Heerwaarden, A.E. (2009). [Actuariel manifest](#), *Aenorm*, Dec 2009, pp. 20-23.

Contributions to academic conferences, workshops and seminars

- Antonio, K. (2009, May 28). A hierarchical model for micro-level stochastic loss reserving. 13th International Conference on Insurance: Mathematics and Economics, Istanbul (Turkey). Contributed talk.
- Antonio, K. (2009, October 1). A hierarchical model for micro-level stochastic loss reserving. University of Barcelona (Spain). Invited seminar.

- Antonio, K. (2009, October 16). Claims reserving methods in insurance: from macro to micro models. Deutsche Aktuar Akademie Workshop, Loccum (Germany). Invited lecture.
- Antonio, K. (2009, December 8). A hierarchical model for micro-level stochastic loss reserving. Université Catholique de Louvain-la-Neuve, Louvain-la-Neuve (Belgium). Invited seminar.
- Cui, J. (2009, February 25) DC default and individual welfare. Groningen Finance Semina, Groningen.
- Cui, J. (2009, March 4) DC default and individual welfare. Midwest Financial Association annual meeting 2009, Chicago.
- Cui, J. (2009, May 12) Supervision After Financial Crisis, NWO-CASS Beijing workshop on Financial Crisis and Financial Supervision, Beijing (invited speaker).
- Cui, J. (2009, June 16) DC default and individual welfare, CPB, Den Haag.
- Cui, J. (2009, September 22) Dutch pension system and ALM policies. Beijing Financial Work Bureau, Beijing.
- Dhaene, J. (2009, March 4-5). Ordering and measuring risks. Workshop on risk analysis in finance, losses in energy and weather-induced losses, Department of Mathematical Statistics and Actuarial Science, University of the Free State, Bloemfontein, South-Africa.
- Dhaene, J. (2009, April 7). Ordering and measuring actuarial risks. Patrick Poon Lecture Series in Actuarial Science, Department of Statistics and Actuarial Science, The University of Hong Kong, invited speaker.
- Goovaerts, M. (2009, April). Risk measures and decisions in Insurance, DGVFM, Berlin.
- Goovaerts, M. (2009, May 12) An actuarial approach to economic capital, Leuven.
- Goovaerts, M. (2009, May 21) Risk measures and decisions in Insurance, University of Lisbon.
- Z. Shang, K. Van Weert, J. Dhaene, M. Goovaerts (2009, May) The Distribution of Path-dependent Options with Applications to Profit Sharing, . 13th International Conference on Insurance: Mathematics and Economics, Istanbul (Turkey)
- K. Van Weert, J. Dhaene, M. Goovaerts (2009, May) Comonotonic Approximations for Optimal Portfolio Selection Problems. 13th International Conference on Insurance: Mathematics and Economics, Istanbul (Turkey).
- M. Goovaerts, (2009, June 2) Risk measures and decisions in Insurance, 2b) or not 2b) Conference, Lausanne.
- K. Van Weert, J. Dhaene, M. Goovaerts (2009, Sept) Optimal Portfolio Selection for General Provisioning and Terminal Wealth Problems, ICCAM Antalya, Turkey.
- M. Goovaerts, Z. Shang (2009, Sept) Analytical Recursive Algorithm for Path-dependent Option Pricing with Stochastic Time”, ICCAM Antalya, Turkey.
- Haastrecht, A. van (2009, February 6). 8th Actuarial and Financial Mathematics Conference, Brussels. Contributed talk.
- Kaas,R., Laeven, R. and Nelsen, R. (2009, Sept) Worst VaR Scenarios With Given Marginals. . 13th International Conference on Insurance: Mathematics and Economics, Istanbul (Turkey).
- Tamerus, J. (2009, May 14). Tijd om te kiezen. De doodlopende weg van de nominale belofte (hard) of een betaalbare en reële ambitie (zacht), Miniconference Stichting van de Arbeid.
- Tamerus, J. and Eggen, J. (2009, March 3), Het pensioencontract op lange termijn, MHP Pensioencongres.
- Tamerus, J. (2009, October 29), De zekerheid voorbij, Concept voor een houdbaar pensioencontract, SPO Deelnemersraad PME.
- Vellekoop, M.H. (2009, Jan 22) Dividends and Discontinuities: The Dirty Little Secret of Mathematical Finance, Université Paris-Est Marne-la-Vallée, Paris (invited seminar).
- Vellekoop, M.H., (2009, Mar 5) Optimal investment under randomly terminating income, Netspar Lunch Seminar , Tilburg (invited seminar).
- Vellekoop, M.H., (2009, Apr 15) Path-dependent Dividends and the American Put Option, Third Conference on Numerical Methods in Finance, Paris (academic conference).
- Vellekoop, M.H. (2009, May 29) Pricing American options with the SABR model, 2009 IEEE International Symposium on Parallel and Distributed Processing, Rome (academic conference).
- Vellekoop, M.H., (2009, Sept 7) A Risk Reserve Model for Hedging in Incomplete Markets, Mathematical Finance Workshop, Amsterdam, (invited talk).
- Vellekoop, M.H. (2009, Dec 17) An optimal investment problem with randomly terminating income, 48th CDC Conference, Shanghai (academic conference).

- Verdonck, T., Van Wouwe, M., Dhaene J., De Bruyne, M. (2009, May). A robustification of the chain-ladder method. 13th International Conference on Insurance: Mathematics and Economics, Istanbul (Turkey).
- Willemse, W.J., (2009, April 18) Developments in insurance accounting", Solvency II and Internal Models, talk for Netspar - UMBS Academy.

Other lectures on research

- Antonio, K. (2009, October 13). A hierarchical model for micro-level stochastic loss reserving. Secura Re, Brussels. Lecture for a private company.
- Antonio, K. (2009, November 5). Credibiliteit voor de hedendaagse schadeactuaris: een bruikbare interpretatie van een actuariële hoeksteen. ASTIN day Dutch Actuarial Association, Amsterdam. Invited lecture.
- Antonio, K. (2009, December 7). A hierarchical model for micro-level stochastic loss reserving. Allianz, Rotterdam. Lecture for a private company.
- Willemse, W.J. (2009, Dec 14) Ontwikkelingen in Solvency II, Lecture at Tower Perrin

Organisational Contributions to conferences, workshops and seminars

- Dhaene, J. (2009, Feb 5) Member of the Organizing Committee of the “Actuarial and Financial Mathematics Conference”, Brussels, Royal Flemish Academy of Belgium for Science and the Arts.
- Dhaene, J. (2009, May) Chairman of the Scientific Committee of the 13th International Congress on Insurance: Mathematics & Economics, Istanbul, Turkey.
- Dhaene, J. (2009, Sept) Member of the Scientific Committee of the “14th International Congress on Computational and Applied Mathematics”, Antalya, Turkey.
- Kaas, R. (2009, May) Member of Scientific Committee . 13th International Conference on Insurance: Mathematics and Economics, Istanbul (Turkey)
- Kaas, R. (2009) Member of Scientific Committee, 8th Actuarial and Financial Mathematics Conference, 2009, Brussels.
- Goovaerts, M., (2009) Member of Scientific Committee . 13th International Conference on Insurance: Mathematics and Economics, Istanbul (Turkey)
- Goovaerts, M.,(2009) Chairman of the scientific committee, 14th International Congress on Computational and Applied Mathematics, Antalya.
- Joseph, A.S. (2009) Organiser of Conference Syntrus Achmea Vermogensbeheer, 5 juni 2009, ‘Pension Board Flight Simulator’
- Joseph, A.S. (2009) Organiser of Conference Syntrus Achmea Vermogensbeheer, 27 oktober 2009, ‘Risk Decision Support System’

Participation in academic networks & fellowships

- Van Haastrecht, A., Research fellow, Netspar
- Pelsser, A., Research Fellow, Netspar
- Vellekoop, M.H., Research Fellow, Netspar
- Vellekoop, M.H., Member of European Science Foundation project Advanced Mathematical Methods for Finance (AMaMeF)

Editor or member of editorial board

- Dhaene, J. (2009) Editor (with Vanmaele M., Deelstra G., De Schepper A., Van Goethem P.) of *Actuarial and Financial Mathematics Conference: Interplay between Finance and Insurance* (February 5-6, 2009), Royal Flemish Academy of Belgium for Science and Arts, Brussels.
- Dhaene, J. (2009). Guest editor (with Gebizlioglu, O.) for the Special Issue *Risk Measures and Solvency*, Journal of Computational and Applied Mathematics.
- Dhaene, J. (2009) Associate Editor of Insurance: Mathematics and Economics

Dhaene, J. (2009) Advisory Editor of Journal of Computational and Applied Mathematics
Dhaene, J. (2009) Editorial Board of ASTIN Bulletin
Goovaerts, M., (2009). Editor of Insurance: Mathematics and Economics
Goovaerts, M., (2009). Editor of Journal of Computational and Applied Mathematics
Kaas, R. (2009). Managing Editor of Insurance: Mathematics and Economics
Kuné, J.B. (2009). Editorial Board of Tijdschrift voor Pensioenvraagstukken
Kuné, J.B. (2009). Editorial Board of Pensioen Bestuur & Management
Pelsser, A., (2009). Editor of ASTIN
Pelsser, A., (2009). Managing Editor of International Journal of Theoretical and Applied Finance
Pelsser, A. (2009). Editorial Board of European Actuarial Academy book-series, Springer.
Rijckevorsel, J.L.A. van, (2009) Editorial Board of *Verzekerings-Archief* Kluwer.
Vellekoop, M.H., (2009). Editorial board of the proceedings of the 2008 Workshop ‘Studygroup Mathematics with Industry’, ISBN 978-90-365-2779-8

Referee activities

Antonio, K. (2009). Referee for *Insurance: Mathematics and Economics*, *ASTIN Bulletin*, *Journal of Computational and Applied Mathematics*, *North American Actuarial Journal*, *Life and Pensions Magazine*, *National Science Foundation (USA)*.
Dhaene, J. (2009) Referee for *Annals of Operations Research*, *ASTIN Bulletin*, *Australian Actuarial Journal*, *Belgian Actuarial Bulletin*, *Bulletin of the Swiss Association of Actuaries*, *Decisions in Economics and Finance*, *European Journal of Finance*, *Insurance: Mathematics & Economics*, *Journal of Applied Probability*, *Journal of Computational and Applied Mathematics*, *Methodology and Computing in Applied Probability*, *North American Actuarial Journal*, *Scandinavian Actuarial Journal*, *Tijdschrift voor Economie en Management*.
Haastrecht, A. van. (2009) *Insurance Mathematics and Economics*, *Quantitative Finance*, *International Journal of Theoretical and Applied Finance*
Kaas, R. (2009) *Insurance: Mathematics and Economics*, *ASTIN Bulletin*, *Journal of Computational and Applied Mathematics*

Membership of academic committees (including Ph.D. committees outside the FEB)

Goovaerts, M. (2009) Ph.D. committees F. Mierzejewski (KU Leuven), B. Avanzi (U.Lausanne), N. Smith (U.Lausanne),
Goovaerts, M. (2009) Best paper award committee, 13th International Conference on Insurance: Mathematics and Economics, Istanbul, Turkey, Johan de Witt award (AG).
Kaas, R. (2009) Best paper award committee, 13th International Conference on Insurance: Mathematics and Economics, Istanbul, Turkey.
Kuné, J.B. (2009, Dec 1) Ph.D. committee Emilie Schols, Universiteit Tilburg, Tilburg
Pelsser, A. (2009, April 23) Ph.D. committee Chenming Bao, Heriot-Watt University, Edinburgh
Vellekoop, M.H. (2009, Sept 18) Ph.D. Committee S. Saikat, University of Twente, Enschede

Grants, prizes and honours

Antonio, K. (2009, November). VENI grant on research proposal “Non-life: a life insurance approach”
Vellekoop, M.H., (2009, September) Netspar Theme Grant (500k euro) for the period 2009-2012.
Cui, J., (2009, September) Research Grant as part of Netspar Theme together with Michel Vellekoop.

Various activities

Antonio, K. (2009, September 20 – October 3). Research stay at the Department of Econometrics, University of Barcelona.
Dhaene, J. (Nov 1 2006 – Oct 31, 2009): Appointment as visiting professor, University of the Free State, Department of Mathematical Statistics.
Goovaerts, M., (2009) Visiting professor Duisenberg School of Finance, Amsterdam
Goovaerts, M., (2009) Visiting professor Collegio Carlo Alberto, University of Torino

- Kaas, R., “Selected Papers in Honour of Hans Gerber”, M. Goovaerts, R. Kaas, E. Shiu, IME 44.2
- Van Rijckevorsel, J.L.A., van. (2006-). Consultant to Centre For Insurance Statistics and Research, Association of Dutch Insurers, The Hague.
- Van Rijckevorsel, J.L.A., van. (2009-). Elected member of the deelnemersraad of the TNO Pension Fund.
- Van Rijckevorsel, J.L.A., van. (2009-). Elected member of the verantwoordingsorgaan of the TNO Pension Fund.
- Rijckevorsel, J.L.A. van. (2008-), member of the Klankbordgroup Pensioen aanspraken statistiek. Speerpunt Vergrijzing, CBS, The Hague.
- Vellekoop, M.H. (2004-) Director of Research for the Derivatives Technology Foundation, Amsterdam
- Vellekoop, M.H. (Feb 2009) Research visit at CERMICS, Ecole des Ponts ParisTech, Paris, Feb 2009.
- Willemse, W.J. (2009) Observing member of Commissie Overlevingstafels of the Actuarial Association.

CHAPTER 5: OTHER RESEARCH QUANTITATIVE ECONOMICS

<i>Subprogrammes:</i>	<i>Business and Industrial Statistics (IBIS)</i>
<i>Subprogramme's director</i>	<i>Prof.dr. R.J.M.M. Does</i>
<i>Website:</i>	<i>www.ibisuva.nl</i>
<i>Department:</i>	<i>Quantitative Economics</i>
<i>METIS-code:</i>	<i>uva/fee/res/orq/prog</i>

5.1 MEMBERS OF THE RESEARCH GROUP AND RESEARCH IN FTES

<i>Name</i>	<i>Title</i>	<i>Function</i>	<i>Total</i>	<i>Total</i>	<i>Total</i>	<i>Total</i>	<i>Dept.</i>	<i>Funding</i>
			2006	2007	2008	2009		
<i>Subprogramme IBIS</i>								
Biggaard, S.	prof dr	hgl	-	-	-	0,10	KE	3
Does, R.J.M.M.	prof dr	hgl	-	-	-	0,40	KE	3
Does, R.J.M.M.	prof dr	hgl	-	-	-	0,10	KE	1
Erdmann, T.P.	drs	phd	-	-	-	0,60	KE	3
Mast, J. de	dr	uhd	-	-	-	0,50	KE	3
Kemper, B.P.H.	drs	phd	-	-	-	0,60	KE	3
Schoonhoven, M.	drs	phd	-	-	-	0,60	KE	3
Total 1st flow of funds			0,00	0,00	0,00	0,10		
Total 2nd flow of funds			0,00	0,00	0,00	0,00		
Total 3rd flow of funds			0,00	0,00	0,00	2,80		
Total 1st f.o.f. excl. Ph.D.'s			0,00	0,00	0,00	0,10		
Total 1st-3rd flow of funds			0,00	0,00	0,00	2,90		
Ph.D. students			0,00	0,00	0,00	1,80		

5.2 PROGRAMME DESIGN

All members of the institute, except for professor Ronald Does, are full-time employed at the Institute for Business and Industrial Statistics (IBIS UvA). IBIS UvA is an independent consulting firm, owned by the University of Amsterdam. The institute is organizationally affiliated to the department of Quantitative Economics. The interaction of scientific research on the one hand, and its application in the service of IBIS's clients on the other, is seen as the crux of the institute.

In December 2009, professor Søren Biggaard passed away after a lost fight against cancer. Søren has been very important as an inspirator to the institute, and in positioning the institute as a key player in the international community of quality management and industrial statistics.

Context and mission

In the early twentieth century, industry has been one of the cradles of the discipline of statistics. The original application context of industrial statistics has been quality control, but a modern notion of the field would include operations management, process management, and product design as well. Typical application areas such as product and process development, quality and efficiency improvement, reliability and safety engineering, and surveillance and monitoring of complex systems, entail applied empirical research and statistical decision making. Business and industrial statistics aims to develop rational prescriptions for such applications, including techniques, methods, and principles.

Research methods/traditions

The fact that methods and techniques are the deliverables of the research programme places business and industrial statistics in the category of methodological sciences, such as statistics and methods research (psychometrics, econometrics), design research (engineering, architecture), and action research (substantial parts of business administration and management science). Whereas logical correctness is the criterion for the products of formal sciences such as mathematics, and reproducibility is the criterion in empirical sciences, the criteria for the output of business and industrial statistics are usefulness and effectiveness.

Business and industrial statistics make frequent use of results and theories from a multitude of scientific disciplines, such as mathematics and mathematical statistics, engineering, and business-economics.

Dissemination and value realisation

The consulting work of IBIS UvA, focusing on healthcare, financial services and the high-tech industry, provides both an empirical basis for the research, as well as an outlet allowing the research results to be of direct value to society. IBIS UvA is also a founding member of the Dommel Valley Platform, a collaborative initiative of the high-tech industry in Eindhoven Region aiming to gather, develop and disseminate knowledge on techniques for product development and reliability management.

IBIS UvA has participated substantially in professional networks such as the American Society for Quality (ASQ), the International Society for Business and Industrial Statistics (ISBIS), and the European Network for Business and Industrial Statistics (ENBIS). All offer ample opportunities for promoting new methods and techniques to practitioners.

Technometrics is a highly regarded journal on statistical methods in the physical, chemical and engineering sciences. The *Journal of Quality Technology* publishes papers on methods for quality improvement and control. The *Quality Management Journal* and the *International Journal of Quality and Reliability Management* are well-respected outlets for papers on predominantly qualitative techniques for quality improvement. Other international journals include *Quality and Reliability Engineering International* and *Quality Engineering*. In future years, the institute aims to publish more papers in the operations management and the management of healthcare literatures.

Research themes

1. Statistical process control and control charting methodology

Statistical process control (SPC) offers methods for detecting when a system transits from a normal state to a disturbed state (named *out-of-control*). Methodology for SPC in the manufacturing industry has, in the previous two decades, reached a mature stage. Attention is now shifting to the monitoring of nonindustrial processes, such as bio-surveillance and the monitoring of complex technical systems. Such applications require an integration of SPC with multi-variate statistics and time series analysis.

In the previous years, this research theme has resulted in 5 PhD dissertations (one of which has been awarded the 2008 *Onderzoeksprijs Kwaliteitsmanagement*), 1 current PhD project, 16 peer-reviewed publications, and the *ASQ 2008 Brumbaugh Award* for “the paper making the greatest contribution to the development of industrial applications of quality technology.”

2. Commercially available improvement methodologies

Industry and consulting firms develop methodologies for process, quality and efficiency improvement, some of which are applied on an extremely wide scale. Examples include Six Sigma, Lean Manufacturing, Business Process Reengineering, and Statistical Process Control. A critical and scientific study of these commercially offered methodologies aims to assess their merits, and where possible suggest improvements.

So far, the research theme has resulted in 3 PhD dissertations (one of which has been awarded the 2007 *Onderzoeksprijs Kwaliteitsmanagement*), and 12 peer-reviewed publications.

3. Measurement system analysis

The precision of measurement devices in the engineering and physical disciplines, as well as the reliability of medical diagnoses and psychometrical instruments and tests, and finally, the legal implications of metrology, are topics with substantial impact. All three topics struggle with fundamental and practical hiatuses in insight, for which it is plausible that industrial statistics can make contributions and possibly

even induce breakthroughs. Among the objectives for the next 10 years, is the challenge to improve the industrial standard for measurement systems analysis (as laid down in AIAG, 2002), and to improve the international legal standard for modelling measurement precision (as specified in ISO, 1995). The research theme has resulted in the previous years in 9 peer-reviewed papers, 1 PhD dissertation (and 1 current PhD project), and the *ASQ 2005 Brumbaugh Award* for “the paper making the greatest contribution to the development of industrial applications of quality technology.”

4. Exploratory data analysis and problem-solving

Both in statistics and in research methodology for empirical inquiry, understanding of hypothesis generation (or: *discovery*) lags far behind understanding of hypothesis-testing and modelling (or: *justification*). One of the probable causes is the intrinsically multi-disciplinary nature of the topic. The research theme has so far focused on the development of a framework for teaching exploratory data analysis, and has resulted in 7 peer-reviewed publications, and the 2007 Nelson Award for “the article having the greatest immediate impact on practice.”

5. Healthcare engineering

Pressure on healthcare to improve quality, efficiency and safety is high. The research theme *Healthcare Engineering* aims to make applicable in healthcare the kind of techniques used for process improvement and control in industry. The consultancy activities of IBIS UvA, as well as the excellent network of contacts in healthcare, provide a good empirical basis for the research, and ample opportunities to test methods in practice.

The research theme has resulted in 1 PhD dissertation (and 2 current PhD projects), 11 peer-reviewed publications, and the 2006 Cecil C. Craig Award.

5.3 PROGRAMME EVALUATION

Strengths:

The consulting activities of IBIS offer opportunities for cross-fertilization that are recognized internationally as unique. Further, members of the institute have in recent years made substantial investments in building an international network, which has begun to bear fruit.

Inspired by identified needs in the consulting practice, the research in recent years has been daring in taking up research topics beyond well-trodden paths, and which include ill-structured problems that do not fall in an established research framework. The international appreciation for the research contributions of the institute is attested by the various prizes and prestigious positions awarded to members of the institute.

Weaknesses:

The institute takes identified problems in the field as point of departure for research, instead of departing from a specific research method and searching for a matching application. As a consequence, it is sometimes difficult to find a suitable outlet for the research, which may fail to fit in the research templates prescribed by established journals.

The size of the group, especially the capacity at senior level, is small.

Opportunities:

The transfer of the institute from the Faculty of Science to the Faculty of Economics and Business is decisively felt as a good initiative. The nature of research done at the institute fits better in the variety of research traditions found in the FEB than in the paradigm of formal science which dominates the KdV Institute for Mathematics. The Amsterdam Business School provides new potential outlets for our knowledge, notably, courses for students and perhaps courses for executives.

The commercial exploitation of our knowledge is, at the beginning of 2010, at an all times' high, with the healthcare community, the service industries, and the high-tech world all highly interested in buying our expertise.

Threats:

Consulting activities reduce effective research time for the senior members of the institute to about 0.2 or 0.3 fte. Although an efficient way of working has proved to enable substantial accomplishments in limited time, time budgets are a concern.

Although the institute has been quite successful in attracting PhD students of high potential, the institute has been unsuccessful in keeping them after their promotion.

5.4 RESOURCES AND FUNDING

Professor Does's position at the FEB is partially (0.2 fte) paid for by funds of the 1st flow. All other positions are paid for by funds of the 3rd flow. Dr. De Mast has a 0.2 fte position as UHD, which is paid for from the dividend of IBIS. The other personnel costs are directly paid by IBIS.

5.5 OUTPUT

Key publications

De Koning H, De Mast J (2006) A rational reconstruction of Six Sigma's Breakthrough Cookbook. *International Journal of Quality and Reliability Management* 23(7) 766–787.

De Mast J, Trip A (2007) Exploratory data analysis in quality improvement projects. *Journal of Quality Technology* 39(4) 301–311.

Van Wieringen W, De Mast J (2008) Measurement system analysis for binary data. *Technometrics* 50(4) 468–478.

De Koning H, De Mast J, Does R, Vermaat M, Simons S (2008) Generic Lean Six Sigma project definitions in financial services. *Quality Management Journal* 15(4) 32–45.

Bisgaard S (2008) “Must a Process be in Statistical Control Before Conducting Designed Experiments?”, with discussion. *Quality Engineering* 20(2) 143–150.

Does R, Vermaat M, Verver J, Van den Heuvel J, Bisgaard S (2009) Reducing start time delays in operating rooms. *Journal of Quality Technology* 41(1) 95–109.

Forthcoming

De Mast J, Van Wieringen W (2010) Modeling and evaluating repeatability and reproducibility of ordinal classifications. Forthcoming in *Technometrics*.

De Mast J, Does R (2010) Discussion of “Statistical thinking and methods in quality improvement”. Forthcoming in *Quality Engineering*.

De Koning H, Does R, Groen A, Kemper B (2010) Generic Lean Six Sigma project definitions in publishing. Forthcoming in *the International Journal of Lean Six Sigma*.

Schoonhoven M, Does R (2010) The X-bar control chart under non-normality. Forthcoming in *Quality and Reliability Engineering International*.

Erdmann T, Bisgaard S, Does R (2010) A Gage R&R study in a hospital. *Quality Engineering* 22(1), pp. 46-53.

Kemper B, De Mast J, Mandjes M (2010) Modeling process flow using diagrams. Forthcoming in *Quality and Reliability Engineering International*.

Bisgaard S, Khachatryan D (2010) Asymptotic confidence intervals for variograms of stationary time series. Forthcoming in *Quality and Reliability Engineering International*.

Other Research
Quantitative Economics

Publications in numbers

<i>KE-Overig</i>				2009
1) Academic publications	a) in refereed journals	A	2	
		B	4	7
		C	1	
	b) in other journals			8
	c) book chapters	A	-	
		B	-	0
		C	-	
	d) proceedings	Other		2
Total				17
2) Monographs		A	-	
		B	-	0
		C	-	
3) Ph.D. theses				-
4) Professional publications				5
5) Popular publications				-
6) Working papers				-
Total				22

Academic publications (excluding publications in/of books) – refereed

A

Does, R., Vermaat, M., Verver, V., Van den Heuvel, J., & S. Bisgaard (2009) Reducing start time delays in operating rooms. *Journal of Quality Technology* 41(1) 95–109.

De Mast, J., Van der Meulen, F. & De Koning H, (2009) Nonrepeatable gauge R&R studies assuming temporal or patterned object variation. *Journal of Quality Technology* 41(4) 426–439.

B

Khachatryan, D., & S. Bisgaard (2009) Some results on the variogram in time series analysis. *Quality and Reliability Engineering International* 25 947–960.

Riaz M, & R. Does (2009) A process variability control chart. *Computational Statistics* 24(2) 345–368.

Schoonhoven M., Riaz, M., & R. Does (2009) A comparison of different design schemes for the X-bar chart. *Quality and Reliability Engineering International* 25(5) 581–594.

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Other

Kaplan, S., Bisgaard, S., Truesdell, D. & S. Zetterholm (2009) Design for Six Sigma In Healthcare: Developing an Employee Influenza Vaccination Process. *Journal for Healthcare Quality* 31(3) 36–43.

Academic publications (excluding publications in/of books) – non-refereed

Awad M, Erdmann T, Shanshai Y, Barth B (2009) A measurement system analysis approach for hard-to-repeat events. *Quality Engineering* 21(3) 300–305.

Bisgaard, S. & R. Does (2009), “Health care quality: Reducing the length of stay at a hospital”, *Quality Engineering* 21(1), pp. 117-131.

Bisgaard, S. & M. Kulahci (2009), “Time series model selection and parsimony”, *Quality Engineering* 21(3), pp. 341–353.

Does, R., Vermaat, M., Verver, J., Heuvel, J. van den & S. Bisgaard (2009), “Operating with maximum efficiency: Red Cross and Canisius Wilhelmina Hospitals”, *Minitab Case Studies* May 2009.

De Mast J, Kemper B (2009) Principles of exploratory data analysis in problem solving: What can we learn from a well-known case?, with discussion and rejoinder. *Quality Engineering* 21(4) 366–375 (paper) 382–383 (rejoinder).

Kemper, B., Koopmans, M. & R. Does (2009), “The availability of infusion pumps in a hospital”, *Quality Engineering* 21(4), pp. 471-477.

- Riaz M, Does R (2009) Robust process monitoring — A bivariate case. *Quality Engineering* 21(1) 63–71.
- Wijma, J., Trip, A., Does, R. & S. Bisgaard (2009), “Health care quality: Efficiency improvement in a nursing department”, *Quality Engineering* 21(2), pp. 222-228.

Academic publications (in/of books) – non-refereed

- Does, R., Vermaat, M., Koning, H. de., Bisgaard, S. & J. van den Heuvel (2009), “Standardizing healthcare projects; generic templates are useful for early DMAIC phases”, In: *Solutions to the Healthcare Quality Crisis*, S. Bisgaard (ed.), ASQ Quality Press, Milwaukee, Wisconsin, pp. 151-168.
- Heuvel, J. van den, Does, R. & S. Bisgaard (2009), “Dutch hospital implements Six Sigma: even small p[rojects can make a big difference.” In: *Solutions to the Healthcare Quality Crisis*, S. Bisgaard (ed.), ASQ Quality Press, Milwaukee, Wisconsin, pp. 41-48.

Professional Publications

- Daalen P. van & R. Does (2009), “De tien grootste valkuilen bij Lean Six Sigma”, *Kwaliteit in Bedrijf* 25(2), pp. 6-9.
- Kemper, B. & J. De Mast (2008), "IBIS UvA: Research and Consultancy in Lean Six Sigma", *Aenorm* 60, pp. 39–42.
- Kemper, B. (2009), "Mean Sojourn Time in Parallel Queues", *Aenorm* 64, pp. 63–66.
- Mast, J. de, Bisgaard, S. & R. Does (2009), “Wat komt er na Lean Six Sigma?”, *Kwaliteit in Bedrijf* 25(9), pp. 34-37.
- Trip, A., Jong, L. de & R. Does (2009), “Betere en efficiëntere zorg met Lean Six Sigma”, *Kwaliteit in de Zorg* 19(5), pp. 8-11.

Contributions to academic conferences, workshops and seminars

- Erdmann, T., De Mast, J. (2009) Measurement system analysis for binary classifications: a taxonomy of methods. 9th Annual Conference on Business and Industrial Statistics, Gothenburg, Sweden. Contributed presentation.
- Kemper, B. (2009, 9 September) Healthcare Engineering: Sojourn time in parallel queues. OR51 (Operational Research Society), Warwick, UK. Contributed presentation.
- Schoonhoven, M., Does, R., Riaz, M. (2009, 22 September) On Monitoring the Process Standard Deviation. 9th Annual Conference on Business and Industrial Statistics, Gothenburg, Sweden. Contributed presentation.

Other lectures on research

- De Mast, J. (2009, 6 March, 11 September) Reliability Masterclass. Dommelvalley Platform, Eindhoven.
- Does, R. (2009, 3 March) Operationeel Management: Lean Six Sigma. Nijenrode Business Universiteit, Breukelen.
- Does, R. (2009, 8 April) Management van processen: Lean Six Sigma, Nijenrode Business Universiteit, Breukelen.
- Does, R. (2009, 9 November) Capacity issues in healthcare. Symposium Patiëntenlogistiek, VUmc, Amsterdam.
- Kemper, B. (2009, 15 April) Lean Labs: Six Sigma, Lean en Innovatie. NVKC Symposium voor Leidinggevende Analisten, Veldhoven.

Organisational contributions to conferences, workshops and seminars

- Does, R. (2009) Dagvoorzitter, Het zorglandschap van morgen, Flevum Forum Network.

Participation in academic networks & fellowships

- Bisgaard, S. (2009) Fellow, American Society for Quality (ASQ).
Bisgaard, S. (2009) Fellow, American Statistical Association (ASA).
Bisgaard, S. (2009) Academician, International Academy for Quality.
Does, R.J.M.M. (2009) Academician, International Academy for Quality.
Does, R.J.M.M. (2009) Board member, Dutch Academy for Quality.
Does, R.J.M.M. (2009) Fellow, American Society for Quality (ASQ).
Does, R.J.M.M. (2009) Elected member, International Statistical Institute (ISI).
Does, R.J.M.M. (2009) Member of the ASQ Shewhart Medal Nomination Committee.
Does, R.J.M.M. (2009) Council Member, European Network for Business and Industrial Statistics (ENBIS).
Does, R.J.M.M. (2009) Board Member, Dutch Society for Statistics and Operations Research (VVS).

Editorships and memberships of editorial boards

- Bisgaard, S. (2009) Editor *Solutions to the Healthcare Quality Crisis: Cases and Examples of Lean Six Sigma in Healthcare*. Milwaukee: ASQ Quality Press.
Bisgaard, S. (2009) Member of the Management Committee, *Technometrics*.
Bisgaard, S. (2009) Member of the Editorial Review Board, *Journal of Quality Technology*.
Bisgaard, S. (2009) Member of the Editorial Board and Column Editor, *Quality Engineering*.
De Mast, J. (2009) Member Editorial Board, *Quality Engineering*.
De Mast, J. (2009) Associate Editor, *Technometrics*.
Does, R.J.M.M. (2009) Member Editorial Board, and Member Advisory Board, *Quality Engineering*.
Does, R.J.M.M. (2009) Member Editorial Board, *Quality Technology and Quantitative Management*.
Does, R.J.M.M. (2009) Member Editorial Advisory Board, *International Journal of Lean Six Sigma*.

Membership of academic committees

- Does, R. (2009). Member promotion committee of F. Roijers, FNWI, UvA.
Does, R. (2009). Member promotion committee of R. van den Berg, FNWI, UvA.

Grants, prizes and honours

- De Mast, J. (2009) “2008 Feigenbaum Medal” (ASQ) for the young person below 36 years who has displayed outstanding characteristics of leadership, professionalism, and potential in the field of quality and also whose work has been or will become of distinct benefit to mankind.
Bisgaard, S. (2009) “2008 Brumbaugh Award” (ASQ) for the paper that made the greatest contribution to the development of industrial applications of quality control.

CHAPTER 6: MINT (MACRO AND INTERNATIONAL ECONOMICS)

Programme director: Prof.dr. W.J. den Haan
 Department: Economics
 METIS-code: uva/fee/res/toe/prog
 JEL-classification: E, F, H, P
 Web-address: www1.fee.uva.nl/mint
 Starting date programme: 2001
 VSNU-scores 2001-2007: Quality: 4, Productivity: 4, Relevance: 5, Viability: 4.5

6.1 MEMBERS OF THE RESEARCH GROUP AND RESEARCH IN FTES

Name	Title	Function	Total 2006	Total 2007	Total 2008	Total 2009	Dept.	Funding
Beetsma, R.	prof dr	hgl	0,40	0,38	0,50	0,50	AE	1
Beetsma, R.	prof dr	hgl	0,20	0,15	-	-	AE	3
Buiter, W.	prof dr	guest	0,00	0,00	0,00	0,00	AE	1
Buccioli, A.	dr	postdoc	-	-	0,25	0,86	AE	3
Carchedi, G.	dr	guest	0,00	-	-	-	AE	1
Catalán-Aravena, O.O.	drs	docent	0,00	0,20	0,20	-	AE	1
Crujisen, C.A.B. van der		guest	0,00	0,00	0,00	0,00	AE	1
Daniëls, T.R.	drs	phd	0,60	0,05	-	-	AE	1
Daniëls, T.R.	drs	guest	-	-	0,00	-	AE	1
Demertzis, M.	dr	guest	0,00	0,00	0,00	0,00	AE	1
Ellman, M.J.	prof dr	hgl	0,50	0,25	0,00	-	AE	1
Ewijk, C. van	prof dr	hgl	0,11	0,11	0,11	0,11	AE	1
Giuliodori, M.	dr	ud	0,50	0,50	0,50	0,50	AE	1
Hoerberichts, M.M.	dr	guest	0,00	0,00	0,00	0,00	AE	1
Hoogduin, L.	prof dr	hgl	0,11	0,07	0,00	0,02	AE	1
Gërkhani, K.	dr	guest	0,00	0,00	-	-	AE	1
Graaf, Th. de	dr	oz	0,25	-	-	-	AE	2
Haan, W.J. den	prof dr	hgl	0,50	0,80	0,80	0,80	AE	2
Horen, N. van	dr	guest	0,00	0,00	0,00	0,00	AE	1
Jager, H.	prof dr	hgl	0,40	0,40	0,40	0,19	AE	1
Jacobs, B.	dr	ud	0,08	0,24	-	-	AE	1
Jacobs, B.	dr	oz	0,33	-	-	-	AE	3
Jepma, C.J.	prof dr	hgl	0,08	-	-	-	AE	3
Jung, P.	dr	postdoc	0,13	0,80	0,13	-	AE	2
Klaassen, F.J.G.M.	dr	uhd	0,50	0,50	0,50	0,50	AE	1
Knaack, R.K.	dr	uhd	0,08	0,00	0,00	-	AE	1
Knaack, R.K.	dr	guest	-	-	0,00	-	AE	1
Knaap, T.	dr	guest	-	-	0,00	0,00	AE	1
Kirchner, M.	msc	phd	-	-	0,20	0,60	AE	1
Kriwoluzky, D.	dr	postdoc	-	-	-	0,33	AE	2
Kusmerski, D.	msc	phd	0,60	-	-	-	AE	1
Leefmans, N.	drs	phd	0,38	-	-	-	AE	1
Leefmans, N.	drs	docent	-	-	0,00	0,00	AE	1
Lorié, J.A.	dr	guest	-	-	0,00	0,00	AE	1
Lozej, M.	msc	phd	-	-	0,25	0,60	AE	2
Oaktan, T.S.	dr	guest	-	-	0,00	0,00	AE	1
Ploeg, F. van der	prof dr	guest	0,00	0,00	0,10	0,10	AE	1
Rendahl R.P	dr	postdoc	-	0,27	0,53	-	AE	2

<i>Name</i>	<i>Title</i>	<i>Function</i>	<i>Total 2006</i>	<i>Total 2007</i>	<i>Total 2008</i>	<i>Total 2009</i>	<i>Dept.</i>	<i>Funding</i>
Ribeiro-Poplawski, M.	msc	phd	0,60	0,32	-	-	AE	1
Ribeiro-Poplawski, M.	dr	guest	-	-	0,00	0,00	AE	1
Romp, W.E.	dr	postdoc	-	-	0,80	0,80	AE	3
Rusinova, D.	msc	phd	0,27	0,33	0,19	0,10	AE	1
Schabert, A.	dr	oz	0,17	-	-	-	AE	3
Schabert, A.	dr	oz	0,33	-	-	-	AE	1
Schabert, A.	dr	guest	-	0,00	0,00	0,00	AE	1
Schouwstra, M.	drs	phd	0,20	-	-	-	AE	1
Schouwstra, M.	drs	guest	0,00	0,00	-	-	AE	1
Sedláček, P.	msc	phd	-	-	0,25	0,60	AE	2
Sterk, V.	drs	phd	-	0,00	0,00	0,00	AE	1
Stoltenberg, C.A.	dr	ud	-	-	0,17	0,50	AE	1
Teulings, C.N.	prof dr	hgl	-	-	-	0,00	AE	1
Thio, B.	dr	docent	0,06	0,06	0,00	-	AE	1
Veestraeten, D.	dr	ud	0,40	0,40	0,40	0,35	AE	1
Vermeylen, K.	dr	ud	0,40	0,44	0,50	-	AE	1
Vos, S.J.	drs	phd	-	0,15	0,60	0,60	AE	3
Wierds, P.	dr	guest	-	-	0,00	-	AE	1
Wijnbergen, S.J.G.	prof dr	hgl	0,10	0,11	0,11	0,11	AE	3
Wijnbergen, S.J.G.	prof dr	hgl	0,42	0,31	0,31	0,11	AE	1
Willems, T.	drs	phd	-	-	0,20	0,60	AE	1
Wind, J. de	drs	phd	-	-	0,00	0,00	AE	1
Zaheer, S.	drs	phd	-	-	-	0,00	AE	1
Total 1st flow of funds			6,94	4,23	4,28	4,18		
Total 2nd flow of funds			0,88	1,87	1,71	2,33		
Total 3rd flow of funds			0,88	0,41	1,76	2,37		
Total 1st f.o.f. excl. Ph.D.'s			4,29	3,86	3,94	2,88		
Total 1st-3rd flow of funds			8,70	6,51	7,75	8,88		
Ph.D. students			2,65	0,52	1,44	3,10		

6.2 PROGRAMME DESIGN

Objective

The programme uses empirical and theoretical methods to analyse important economic issues in the areas of macroeconomics and international economics. Special emphasis is given to the evaluation of existing fiscal and monetary policies and the question how these policies can be improved upon. Dissemination of the results takes place mainly via international, refereed scientific journals, but also via more policy-oriented outlets.

Motivation

The amount of growth that a country experiences not only has direct effects on the available resources, it can also have important indirect effects through, for example, the stability of the social and political environment. Similarly, the fluctuations countries face can have far reaching consequences to many, especially if these fluctuations mainly fall on subgroups within the population. It is therefore crucial to thoroughly understand the characteristics of economic developments, the factors that are behind them, and to what extent and how governments can affect these developments.

Themes

Monetary economics and monetary policy

Monetary policy is used throughout the world to accomplish important macroeconomic objectives like price stability, exchange rate stability, and/or full employment. Although there is agreement on several dimensions of this topic, there remain numerous important topics of interest. Alexander Kriwoluzky and Christian Stoltenberg have addressed the question how to best incorporate "money" into macroeconomic

models and under which conditions instabilities like sun spots can occur in such models. Christian Stoltenberg is also working on a research project to answer the question whether central banks should fully reveal the information they have available.

Fiscal policy

Fiscal policy is a crucial aspect of macroeconomics given that government expenditures are a substantial fraction of GDP and financing these expenditures through debt and taxes are likely to have important effects on, for example, financial markets, labour force participation, and investment. Roel Beetsma and Massimo Giuliodori have several projects within this research area that focus on real time data. Questions addressed are what data did governments actually have when they had to make their decisions and how did announced plans deviate from actual outcomes and why. Markus Kirchner has looked at the impact of government stimulus on real activity and the conditions under which such government policies have a large or a small impact.

• *International economics*

Tijmen Daniels, Franc Klaassen, and Henk Jager have developed a new way to measure exchange rate pressure, which takes into account for actions taken by authorities to offset market pressure. This measure has been used to (re)study the behavior of exchange and interest rates during several important episodes. The same group of researchers has also developed models to study currency crises models. Using insights from global games, it becomes possible to understand much better when such crises occur.

Development economics

Sweder van Wijnbergen en Rick van der Ploeg are involved in several projects studying development economics. Special emphasis has been given to the role of natural resources, such as oil, for debt policies and economic growth.

Pensions and macroeconomic developments

Research projects of Roel Beetsma, Casper van Ewijk, Ward Romp, and Siert-Jan Vos focus on the importance of macroeconomic developments on key questions for pension funds, such as the sustainability of pension funds' obligations, but also on the interaction between macroeconomic developments and choices made by pension funds, such as investment decisions and the determination of benefit levels.

Business cycles

Several projects mentioned above deal with business cycles. Here we mention some projects that study business cycles that do not fall neatly into any of the categories mentioned above. Tim Willems and Sweder van Wijnbergen explain why in recent times employment takes so long to reach pre-recession levels during the recovery. Xiaoming Cai and Wouter den Haan use forecasting models to determine the long-run consequences of the current financial crisis.

Macroeconomic models with heterogeneous agents and incomplete markets.

Building models that incorporate the complexity and diversity of economic systems is important, not only because it allows us to study a richer set of issues like the interplay between economic policies and distributional effects, but also because aggregate developments themselves are likely to depend on differences in the economic activity of the components of the aggregate economy. Both the developments of numerical algorithms that make it possible to analyze such models and the analysis itself are important aspects of the research in this group. For example, the role of heterogeneity for the cost of business cycles has been studied by Wouter den Haan and Petr Sedlacek.

The recent crisis has highlighted the importance of understanding how information asymmetries and other frictions affect financial markets and whether such frictions have macroeconomic consequences. Heterogeneity and frictions in financial markets play important roles in the work by Vincent Sterk on the consequences of a monetary tightening on consumer durables and nondurables. Also, the frictions firms face in obtaining debt and equity has been studied using both empirical and theoretical studies in the work by Francisco Covas and Wouter den Haan. How financial innovation has affected the cyclical

behaviour of consumer loans has been studied by Wouter den Haan and Vincent Sterk and how it has affect the cyclical behaviour of firm financing has been studied by Matija Lozej.

Tools

There are also several projects in which the development of new tools is important. Alexander Kriwoluzky has developed a new way to estimate and evaluate macroeconomic models with Bayesian estimation. Instead of using the likelihood, which requires correct specification of the model, he uses impulse response functions and sign restrictions. Joris de Wind is involved in a project to make time-varying VARs feasible for big systems by relating the time-varying coefficients to a low-dimensional factor structure. Wouter den Haan and Joris de Wind are working on methods that can avoid the instability problems that are a frequent occurrence when using higher-order versions of the popular perturbation solution method.

6.3 PROGRAMME EVALUATION

- During 2009, Alexander Kriwoluzky joined the group as a postdoc and Coen Teulings, director of the Netherlands Bureau of Economic Policy Analysis (CPB), became a part-time member of the group. The postdoc Alessandro Buccioli left the group to take up a position as an assistant professor at the University of Verona.
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- During 2009 the group published 16 articles in international refereed journals and there are 15 of such publications forthcoming. It has been an exceptional year in terms of getting into the most esteemed journals. Wouter den Haan, together with Francisco Covas, has a paper forthcoming in the *American Economic Journal*, an A⁺-level journal on the Tinbergen list, and Roel Beetsma and Massimo Guiliadori have an article forthcoming in the *Journal of Economic Literature*, a journal in which prominent economists are asked to review recent developments in their field.
-
- The AIOs of the group also have done well. The dissertation of Tijmen Daniels, AIO of Henk Jager and Franc Klaassen, has won the Joop Hartog Dissertation Award, a prize for the best UvA dissertation in economics and econometrics. Vincent Sterk, an PhD of Wouter den Haan, has an article forthcoming in the *Journal of Monetary Economics*, an A-level journal on the Tinbergen list.
-
- The visibility of the group and the interaction with the academic community have been further enhanced during the last year through numerous invited seminars, conference participations, and mini-courses taught at other universities. Also worth mentioning in this respect is the conference on the crisis organised jointly with the Euro Areas Business Cycle Network (EABCN) in Amsterdam in which numerous eminent economists participated.
-
- In addition to the publication of academic papers, the research group has also written for practitioners and taken part in the public debate on issues such as pension reform, the stimulus package, and long-term consequences of the financial crisis. Members of the group are also involved in advising the government and government agencies. Roel Beetsma was a member of the committee to advise social affairs minister Piet Hein Donner on the effects of ageing and the financial crisis on the Dutch pension system. Sweder van Wijnbergen has been a member of advisory committees to the minister of Economic Affairs on postal market deregulation and the valuation of radio frequency distribution. Wouter den Haan became an academic partner of the Dutch Bureau of Economic Policy Analysis (CPB).

6.4 RESOURCES AND FUNDING

- Several projects of the programme are (partly) financed by external funds: the project on market frictions and DSGE models led by Wouter den Haan is financed by NWO and the project on the macroeconomics of pension reform led by Roel Beetsma is financed by Netspar. Sweder van Wijnbergen has received a 4-year grant for research on credit crisis consequences by the Gieskes-Strijbosch

Foundation. In addition, two AIOs are financed by De Nederlandsche Bank and one postdoc is financed by MN services.

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6.5 OUTPUT

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Key publications

- Beetsma, R.M.W.J. & Giuliodori, M. (2010). The Macroeconomic Costs and Benefits of the EMU and other Monetary Unions: An Overview of Recent Research, *Journal of Economic Literature*, forthcoming.
- Covas, F. & Den Haan, W.J. (2010). The Cyclical Behavior of Debt and Equity Finance, *American Economic Review*, forthcoming.
- Den Haan, W.J. & Kaltenbrunner, G. (2009). Anticipated Growth and Business Cycles in Matching Models, *Journal of Monetary Economics*, 56, 309-327.
- Heijdra, B.J & Romp, W.E. (2009). Retirement, pensions, and ageing, *Journal of Public Economics*, 93, 568-604.
- Klaassen, F.J.G.M. & Magnus, J.R. (2009). The Efficiency of Top Agents: An Analysis through Service Strategy in Tennis. *Journal of Econometrics*, 148, 72-85.

-

Forthcoming (excluding publications in/of books) – refereed

- Algan, Y., Allais, O. & Den Haan, W.J. (2010). Solving the Incomplete Markets Model with Aggregate Uncertainty Using Parameterized Cross-sectional Distributions, *Journal of Economic Dynamics and Control*, forthcoming.
- Arezki, R. & van der Ploeg, F. (2010). Trade policies, institutions and the natural resource curse, *Applied Economics Letters*, forthcoming.
- Beetsma, R.M.W.J. & Giuliodori, M. (2010). Fiscal Adjustment to Cyclical Developments in the OECD: An Empirical Analysis Based on Real-Time Data, *Oxford Economic Papers*, forthcoming.
- Beetsma, R.M.W.J. & Giuliodori, M. (2010). The Macroeconomic Costs and Benefits of the EMU and other Monetary Unions: An Overview of Recent Research, *Journal of Economic Literature*, forthcoming.
- Covas, F. & Den Haan, W.J. (2010). The Cyclical Behavior of Debt and Equity Finance, *American Economic Review*, forthcoming.
- Den Haan, W.J. (2010). Comparison of Solutions to the Incomplete Markets Model with Aggregate Uncertainty, *Journal of Economic Dynamics and Control*, forthcoming.
- Den Haan, W.J. (2010). Assessing the Accuracy of the Aggregate Law of Motion in Models with Heterogeneous Agents, *Journal of Economic Dynamics and Control*, forthcoming.
- Den Haan, W.J., Judd, K.L. & Juillard, M. (2010). Computational Suite of Models with Heterogeneous Agents: Incomplete Markets and Aggregate Uncertainty, *Journal of Economic Dynamics and Control*, forthcoming.
- Den Haan, W.J. & Rendahl, P. (2010). Solving the Incomplete Markets Model with Aggregate Uncertainty Using Explicit Aggregation, *Journal of Economic Dynamics and Control*, forthcoming.
- Ganoulis, I. & Giuliodori, M. (2010). Financial Liberalization and House Price Dynamics in Europe, *Applied Economics*, forthcoming.
- Gautier, P.A. & C.N. Teulings, (2010). On-the-job search, mismatch and efficiency, *Review of Economic Studies*
- Ploeg, F. van der (2010). Why do many resource-rich countries have negative genuine saving rates? Anticipation of better times or rapacious rent seeking, *Resource and Energy Economics*, forthcoming.
- Ploeg, F. van der (2010). Political economy of prudent budgetary policy, *International Tax and Public Finance*, forthcoming.
- Ploeg, F. van der (2010). Voracious transformation of a common natural resource into productive capital, *International Economic Review*, forthcoming.

- Portela, M., R.J.M. Alessie, C.N. Teulings, (2010) Measurement error in education and growth regressions, *Scandinavian Journal of Economics*
- Sterk, V. (2010). Credit Frictions and the Comovement between Durable and Non-durable Consumption, *Journal of Monetary Economics*, forthcoming.
- Teulings, C.N. (2010). Earnings profiles, employment protection, and the labour market for older workers. *International Tax and Public Finance*
- Wijnbergen, S.J.G. van & Budina, N. (2010). Fiscal Sustainability and Oil Wealth: Managing oil and gas volatility in Azerbaijan, *Economics of Transition*, forthcoming.

Forthcoming academic publications (in/of books) – non-refereed

- Jager, H., Jepma, C.J. & Kamphuis, E. (2010). *Introduction to International Economics*, 2nd ed., Hants (UK): Palgrave/Macmillan, forthcoming.
- Wijnbergen, S.J.G. van, Muench, C. & Lejour, A. (2010). The Determinants of Female Labour Market Participation in Europe, in Taskforce deeltijd plus (eds.), Proceedings of International Conference on increasing female labour participation, forthcoming.

Publications in numbers

<i>Mint</i>				2009
1) Academic publications	a) in refereed journals	A	7	
		B	10	21
		C	4	
	b) in other journals			1
	c) book chapters	A	4	
		B	-	10
		C	1	
		Other	5	
	d) proceedings	Other		1
Total				33
2) Monographs		A	-	
		B	-	0
		C	-	
		Other	-	
3) Ph.D. theses				1
4) Professional publications				7
5) Popular publications				23
6) Working papers				29
Total				93

Dissertations

- Daniëls, T.R. (2009). Rationalised Panics; On the Theory of Global games and its Application to Financial Crises. University of Amsterdam. 12 June. [promotor prof. dr. H. Jager, co-promotor dr. F.J.G.M. Klaassen]

Academic publications (excluding publications in/of books) – refereed

A

- Beetsma, R.M.W.J., Giuliodori, M. & Wierds, P.J. (2009). Planning to Cheat: EU Fiscal Policy in Real Time, *Economic Policy*, 24, 753-804. [A]
- Den Haan, W.J. & Kaltenbrunner, G. (2009). Anticipated Growth and Business Cycles in Matching Models, *Journal of Monetary Economics*, 56, 309-327. [A]
- Gautier, P.A., C.N. Teulings. (2009). Marriage and the City: Search Frictions and Sorting of Singles, *Journal of Urban Economics* 67 (2010) 206–218 [A]

- Heijdra, B.J & Romp, W.E. (2009). Human capital formation and macroeconomic performance in an ageing small open economy, *Journal of Economic Dynamics and Control*, 33(3), 725-744. [A]
- Heijdra, B.J & Romp, W.E. (2009). Retirement, pensions, and ageing, *Journal of Public Economics*, 93(3-4), 586-604. [A]
- Klaassen, F.J.G.M. & Magnus, J.R. (2009). The Efficiency of Top Agents: An Analysis through Service Strategy in Tennis. *Journal of Econometrics*, 148, 72-85. [A]
- Wijnbergen, S.J.G. van & Budina, N. (2009). Quantitative Approaches to Fiscal Sustainability Analysis: A Case Study of Turkey since the Crisis of 2001. *The World Bank Economic Review*, 23, 119-140. [A]

B

- Beetsma, R.M.W.J., Giuliadori, M. & Klaassen, F.J.G.M. (2009). Temporal Aggregation and SVAR Identification, with an Application to Fiscal Policy, *Economics Letters*, 105, 253-255. [B]
- Beetsma, R.M.W.J. & Bovenberg, A.L. (2009). Pensions and Intergenerational Risk Sharing in General Equilibrium, *Economica*, 76, 364-386. [B]
- Bovenberg A.L. & C.N. Teulings. (2009). Rhineland exit? *International Tax and Public Finance vol. 16: 710–726* [B]
- Ewijk, C. van (2009). Credit Crisis and Dutch Pension Funds: Who Bears the Shock? *De Economist*, 157, 337-351. [B]
- Gautier, P.A., Svarer, M. & Teulings, C.N. (2009). Sin City? Why is the Divorce Rate Higher in Urban Areas, *Scandinavian Journal of Economics*, 111, 439-456. [B]
- Gautier, P. A. & Teulings, C.N. (2009). Search and the City, *Regional Science and Urban Economics*, 39, 251-265. [B]
- Den Haan, W.J., Sumner, S.W. & Yamashiro, G. (2009). Bank Loan Portfolios and the Canadian Monetary Transmission Mechanism, *Canadian Journal of Economics*, 42, 1150-1175. [B]
- Ploeg, F. van der (2009). Prudent monetary policy and cautious predictions of the output gap, *Journal of Macroeconomics*, 31, 217-230. [B]
- Ploeg, F. van der & Poelhekke, S. (2009). Volatility and the natural resource curse, *Oxford Economic Papers*, 61, 727-760. [B]
- Poelhekke, S. & Ploeg, F. van der (2009). Foreign direct investment and urban concentrations: Unbundling spatial lags, *Journal of Regional Science*, 49, 749-775. [B]

Other

- Bordignon, M., Buettner, T. & Ploeg, F. van der (2009). Reinventing Europe, *CESifo Economic Studies*, 55, 1-14.
- Bun, M.J.G., Klaassen, F.J.G.M. & Tan, R. (2009). Free Trade Areas and Intra-Regional Trade: the Case of ASEAN, *Singapore Economic Review*, 54, 319-334.
- Jager, H. (2009). Dollarreserves onder druk. *Kwartaalschrift Economie*, 6, 296-298.
- Ploeg, F. van der (2009). Global crises and developing countries: Financial, environmental, resource and food perspectives (the David Pearce Lecture for the 17th Annual EAERE Meeting), *International Review of Environmental and Resource Economics*, 3, 119-160.

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A

- Ewijk, C. van, Graaff, Th. de & Leuvensteijn, M. van (2009). Social Renting, Transfer Taxes, and Labour Mobility in Europe. In: Ewijk, C. van & Leuvensteijn, M. van (eds.), *Homeownership and the European labour market*, Oxford University Press, 53-84. [A]
- Ewijk, C. van & Leuvensteijn, M. van (2009). Homeownership and the labour market: Introduction and policy implications. In: Ewijk, C. van & Leuvensteijn, M. van (eds.), *Homeownership and the European labour market*, Oxford University Press, 1-14. [A]
- Wijnbergen, S.J.G. van & Budina, N. (2008). Managing Volatility: Fiscal Policy, Debt Management, and Oil Revenues in the Republic of Congo”. In: Carlos A. Braga and Dörte Dömeland (eds), *Debt Relief and Beyond: Lessons Learned and Challenges Ahead*, Oxford University Press. [A]

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Other

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Academic publications (in/of books) – non-refereed

Ewijk, C. van, Bonenkamp, J.; ter Rele, H. & Westerhout, E. (2009). Herstel dekkingsgraad pensioenfondsen vergt grote inkomensoffers, KVS Jaarboek 2008/2009, 106-114.

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Jager, H. (2009), Gerrit Meester: bijzonder hoogleraar aan de Universiteit van Amsterdam, 1992-2009. In: H. Massink & Silvis, H. (eds.), *Rond de scheidslijn tussen landbouweconomie en landbouwpolitiek. Liber Amicorum Gerrit Meester*, Wageningen, Wageningen Academic Publishers, 38-39.

Wijnbergen, S.J.G. van & Schellekens, O. (2008). On Aid and Aids in Africa, Preadviezen KVS.

Academic publications (in proceedings) – non-refereed

Wijnbergen, S.J.G. van (2009). The "How to" of Fiscal Sustainability: A case study of Azerbaijan using the World Bank Fiscal Sustainability Tool. In: *Fiscal Sustainability: Analytical Developments and Emerging Policy Issues*, conference proceedings, Bank of Italy.

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Beetsma, R.M.W.J. & Bucciol, A. (2009). Consequences for Welfare and Pension Buffers under Alternative Methods of Discounting Future Pensions. *University of Amsterdam*.

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- Den Haan, W.J. & Sedlacek, P. (2009). Inefficient Employment Decisions, Entry Costs, and the Costs of Fluctuations, *CEPR Discussion Paper*, No. 7468.
- Den Haan, W.J. & Sterk, V. (2009). The Myth of Financial Innovation and the Great Moderation. *CEPR Discussion Paper*, No. 7507.
- Dia, E. & Giuliadori, M. (2009). A Dynamic Model of Bank Interest Margins: Theory and Empirical Evidence, *University of Amsterdam*.
- Ewijk, C. van, Janssen, P., Kortleve, N. & Westerhout, E. (2009). Naar een reëel kader voor pensioenfondsen, *NEA Paper 16*.
- Kirchner, M. (2009). Liquidity Constraints and Tax Policy in Small Open Economies. *University of Amsterdam*.
- Kirchner, M., Cimadomo, J., & Hauptmeier, S. (2009). Time-Varying Effects of Fiscal Policy in the Euro Area. *European Central Bank*.
- Kirchner, M., & Rieth, M. (2009). Fiscal and Monetary Policy Interaction in Turkey: Evidence from an Estimated DSGE Model. *University of Amsterdam*.
- Sterk, V. (2009). Credit Frictions and the Comovement between Durable and Non-durable Consumption, *DNB Working paper 210*.
- Stoltenberg, C.A. (2009). Real Balance Effects, Timing and Equilibrium Determination, *University of Amsterdam*.
- Stoltenberg, C.A. & Kriwoluzky, A. (2009). Nested Models and Model Uncertainty, *University of Amsterdam*.
- Stoltenberg, C.A. & Lepetyuk, V (2009). Policy Announcements and Welfare, *University of Amsterdam*.
- Veestraeten, D.J.M. (2009). Transition probabilities in a problem of stochastic process switching. *University of Amsterdam*.
- Veestraeten, D.J.M. & Jager, H. (2009). Currency option pricing in a credible exchange rate target zone, *University of Amsterdam*.
- Wijnbergen, S.J.G. van & Chervin, M. (2009). Economic Growth and the Volatility of Foreign Aid, *TI Discussion paper*.
- Wijnbergen, S.J.G. van & Franken, C. (2009). Private Capital Flows to Low Income Countries: Country-Specific Effects and the Lucas Paradox. *TI Discussion paper*.
- Wijnbergen, S.J.G. van & Muench, C. (2009). Education and Labor Market Activity of Women: An Age-Group Specific Empirical Analysis. *TI Discussion Paper*, No. 09-099/2.
- Willems, T. (2009). Visualizing the invisible: Estimating the New Keynesian output gap via a Bayesian approach. *TI Discussion Paper*, No. 2009-063.
- Willems, T. & Wijnbergen, S.J.G. van (2009). Imperfect information, lagged labor adjustment and the Great Moderation. *Tinbergen Institute Discussion Paper*, No. 2009-074.

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- Beetsma, R.M.W.J. (2009). The Restructuring of Financial Supervision in the EU, *European View*, 8, 3-12.
- Beetsma, R.M.W.J. (2009). Schuld en crisis, *ESB*.
- Beetsma, R.M.W.J. & Gradus, R. (2009). Pijnlijke keuzes zijn onvermijdelijk, *Tijdschrift voor Openbare Financiën*, 41, 227-232.
- Beetsma, R.M.W.J. & Gradus, R. (2009). Kabinet: richt je aandacht op de overheidsfinanciën en exit uit de financiële sector, *Tijdschrift voor Openbare Financiën*, 41, 114-120.
- Beetsma, R.M.W.J. & Romp, W.E. (2009). Herstelplannen, bestedingseffecten en continuïteit, *ESB*.
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- Ploeg, F. van der & Poelhekke S. (2009). Financiële crisis, milieurampen, en voedseltekorten: Een driedubbele ramp voor ontwikkelingslanden. Short version: Mondiale crisis rampzalig voor ontwikkelingslanden, *ESB*.

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- Beetsma, R.M.W.J. (2009). Geen verlaging pensioenrechten, *NRC Handelsblad*, 28 February.
- Beetsma, R.M.W.J. (2009). Jonge Werknemer Kan zich Moeilijk in AOW - Plannen Kabinet Herkennen, *MeJudice*, 18 November.

- Beetsma, R.M.W.J. (2009). Mislukken van het SER - advies is geen ramp, *MeJudice*, 6 October.
- Beetsma, R.M.W.J. (2009). Pensioenen en AOW geen onderwerp voor SER, *MeJudice*, 31 March.
- Beetsma, R.M.W.J. (2009). Pensioenrechten: Niet afstempelen! *MeJudice*, 28 February.
- Beetsma, R.M.W.J. (2009). Laat de Economie Zoveel Mogelijk met Rust! *MeJudice*, 17 February.
- Beetsma, R.M.W.J. & Gradus, R. (2009). Wees duidelijk over afbouw van staatsschuld, *De Volkskrant*, 12 March.
- Beetsma, R.M.W.J. & Romp, W.E. (2009). Wie denkt aan het pensioen van jongeren? *NRC Handelsblad*, 31 March.
- Beetsma, R.M.W.J. & Wijnbergen, S.J.G. van (2009). Herstelbeleid pensioenfonds te star, *Het Financieele Dagblad*, 25 June.
- Beetsma, R.M.W.J. & Wijnbergen, S.J.G. van (2009). Dreig niet met verlaging van pensioen, *NRC Handelsblad*, 8 June.
- Beetsma, R.M.W.J. & Wijnbergen, S.J.G. van (2009). Paniekvoetbal over tijdelijk lage rentes, *NRC Handelsblad*, 9 June.
- Buccioli, A. (2009). Social Security and Temptation Problems. *Aenorm*, 17, 50-53.
- Buccioli, A. (2009). All Notwithstanding, the Glass is Half Full; How to Benefit from the Crisis. *FSA Fiducie*, 4, 28-31.
- Den Haan, W.J. (2009). Gooi niet alle macro-economische modellen op één hoop. *MeJudice* 21 October.
- Ewijk, C. van (2009). Tijd voor stimulering van de economie: Maar hoe?, *Fiducie*, 16, 22-27.
- Ewijk, C. van, & C.N. Teulings (2009), De Grote Recessie, het Centraal Planbureau over de kredietcrisis, *Balans*. 224 p.
- Ploeg, F. van der (2009). Niemand rent voor een baas van zes ton - Scheve inkomensverhoudingen zijn slecht voor de economie, *NRC Handelsblad*, 9 September. Also on www.mejudice.nl.
- Ploeg, F. van der & Poelhekke, S. (2009). Kredietcrisis is slechts begin - Arme landen krijgen nog de grootste klap, *Het Financieele Dagblad*, 22 August.
- Ploeg, F. van der (2009). Crisis treft arme landen het hardst. Economische crisis komt boven op klimaatproblemen en gestegen voedselprijzen, *Reformatorisch Dagblad*, 25 June.
- Ploeg, F. van der (2009). Na neoliberal succes van Europa tijd voor nieuwe realistische solidariteit, *mejudice.nl*.
- Ploeg, F. van der (2009). Europa is ziek en Bos was afwezig, *NRC Next* and *NRC Handelsblad*, 10 June 2009.
- Romp, W.E. (2009). Verhoging AOW-leeftijd geen effect op crisis, *UvA Nieuwsbrief*, *Het Parool* & various other media, March.
- Teulings, C.N. (2009), Alles draait om de verdeling van de koek tussen de klassen, *Academische Boekengids*, (72), 9-15

Contributions to academic conferences, workshops and seminars

- Beetsma, R.M.W.J. (2009). Discussant of *Monetary Policy and Financial Imbalances: Facts and Fiction* by Katrin Assenmacher-Wesche & Stephan Gerlach, Economic Policy Panel Meeting, Tilburg, October.
- Beetsma, R.M.W.J. (2009). Consequences for Welfare and Pension Buffers under Alternative Methods of Discounting Future Pensions, Pension Day at Hotel Gilze-Rijen, November.
- Beetsma, R.M.W.J. (2009). Budgeting versus implementing fiscal policy in the EU, *Economic Policy Panel*, April, Brussels.
- Buccioli, A. (2009). Social Security, Self-Control Problems and Unknown Preference Parameters. Netspar Theme Conference on The Macroeconomics of Pension Reforms, The Hague, Netherlands, January.
- Buccioli, A. (2009). Measuring Self-Control: a Structural Estimation. Italian Congress of Econometrics and Empirical Economics, Ancona, Italy, January.
- Buccioli, A. (2009). Fixed versus Contingent Indexation: Welfare Implications. CeRP Conference. WDA-SCALA Workshop on Pension Challenges and the Financial Crisis, St. Gallen, Switzerland.
- Buccioli, A. (2009). Fixed versus Contingent Indexation: Welfare Implications. CeRP Conference on Saving for Old Age in a Financial Turmoil, Turin, Italy.
- Buccioli, A. (2009). Inter- and Intra-generational Consequences of Pension Buffer under Demographic, Financial and Economic Shocks. CESifo Venice Summer Institute Workshop on Rethinking the Privatisation of Social Security, Venice, Italy, July.

- Buccioli, A. (2009). Temptation at Work: a Field Experiment on Willpower and Productivity. The Economic Child, Milan, Italy, January.
- Buccioli, A. (2009). Risk Aversion and Portfolio Choice. University of Verona, Italy, March.
- Buccioli, A. (2009). Risk Aversion and Portfolio Choice. Italian Congress of Econometrics and Empirical Economics, Ancona, Italy, January.
- Den Haan, W.J. (2009). Anticipated Growth and Business Cycles in Matching Models, Université de Cergy-Pontoise, Paris, France, January.
- Den Haan, W.J. (2009). Anticipated Growth and Business Cycles in Matching Models, Bank of Portugal, Lisbon, Portugal, February.
- Den Haan, W.J. (2009). Inefficient Employment Decisions, Entry Costs, and the Costs of Fluctuations, CREI, Universitat Pompeu Fabra, Barcelona, Spain, March.
- Den Haan, W.J. (2009). Inefficient Employment Decisions, Entry Costs, and the Costs of Fluctuations, Advances in the Analysis of Labor Markets with Frictions, University of Malaga, Malaga, Spain, March.
- Den Haan, W.J. (2009). Inefficient Employment Decisions, Entry Costs, and the Costs of Fluctuations, Netherlands Bureau of Economic Policy Analysis, Den Haag, May.
- Den Haan, W.J. (2009). Inefficient Employment Decisions, Entry Costs, and the Costs of Fluctuations, Bocconi University, Milan, Italy, June.
- Den Haan, W.J. (2009). Inefficient Employment Decisions, Entry Costs, and the Costs of Fluctuations, Universitat Autònoma, Barcelona, Spain, July.
- Den Haan, W.J. (2009). How well behaved are perturbation solutions? Workshop on Computational Financial Economics, Institut für schweizerisches Bankwesen, University of Zurich, Switzerland, September.
- Den Haan, W.J. (2009). Inefficient Employment Decisions, Entry Costs, and the Costs of Fluctuations, Bank of Hungary, Budapest, Hungary, September.
- Den Haan, W.J. (2009). Inefficient Employment Decisions, Entry Costs, and the Costs of Fluctuations, Norwegian School of Economics and Business Administration, Bergen, Norway, November.
- Den Haan, W.J. (2009). Simulating and Solving Models with Forward Looking Heterogeneous Agents, POLHIA Workshop on Macroeconomic Policies with Heterogeneous Agents, Amsterdam, November.
- Den Haan, W.J. (2009). Pigou Cycles in Closed and Open Economies with Multi-Sector Labor Market Matching, Netherlands Bureau of Economic Policy Analysis, Den Haag, December.
- Den Haan, W.J. (2009). Inefficient Employment Decisions, Entry Costs, and the Costs of Fluctuations, Rheinische Friedrich-Wilhelms-Universität Bonn, Bonn, Germany, December.
- Den Haan, W.J. (2009). Inefficient Employment Decisions, Entry Costs, and the Costs of Fluctuations, Sciences-Po, Paris, France, December.
- Giuliodori, M. (2009). Budgeting versus implementing fiscal policy in the EU, *DNB Seminar Series*, 24 March.
- Giuliodori, M. (2009). Budgeting versus implementing fiscal policy in the EU, *13th International Conference in Macroeconomic Analysis and International Finance*, Crete, 28-30 May.
- Giuliodori, M. (2009). Discussant of *Stabilization effects of social spending: empirical evidence from a panel of OECD countries* by Davide Furci at the 13th International Conference in Macroeconomic Analysis and International Finance, Crete, 28-30 May.
- Kirchner, M. (2009). Liquidity Constraints and Tax Policy in Small Open Economies. UvA-DNB seminar, University of Amsterdam, 20 February.
- Kirchner, M. (2009). Liquidity Constraints and Tax Policy in Small Open Economies. Ph.D. lunch seminar, Tinbergen Institute, Amsterdam, 3 March.
- Kirchner, M. (2009). Liquidity Constraints and Tax Policy in Small Open Economies. 11. Goettinger Workshop “Internationale Wirtschaftsbeziehungen”, University of Goettingen, Germany, 14 March.
- Kirchner, M. (2009). Liquidity Constraints and Tax Policy in Small Open Economies. 14th Annual Conference on Computing in Economics and Finance, University of Technology Sydney, Australia, 15-17 July.
- Kirchner, M. (2009). Time-Varying Effects of Fiscal Policy in the Euro Area. UvA-DNB seminar, University of Amsterdam, 13 November.

- Kirchner, M. (2009). Time-Varying Effects of Fiscal Policy in the Euro Area. Directorate General Economics seminar, European Central Bank, Frankfurt (Main), Germany, 17 November.
- Klaassen, F.J.G.M. (2009). Empirical International Economics: A glimpse of our research. Tinbergen Institute Field Workshop. Universiteit van Amsterdam, 12 June.
- Kriwoluzky, A. (2009). Matching Theory and Data, DYNARE conference, Oslo, Norway, 1 September.
- Kriwoluzky, A. (2009). Pre-announcement and Timing: the effects of a government expenditure shock, Bundesbank research seminar, Bundesbank Frankfurt, Germany, 3 December.
- Romp, W.E. (2009). Pension funds and the business cycle, Netspar Conference, Amsterdam, The Netherlands, January.
- Romp, W.E. (2009). Pension fund restoration plans and unemployment, Viennese Vintage Workshop, Vienna, Austria, December.
- Sedlacek, P. (2009). Inefficient employment decisions, entry costs, and the costs of fluctuations, 6th ECB/CEPR labor market adjustment workshop, Frankfurt, Germany, 3 December.
- Sedlacek, P. (2009). Inefficient employment decisions, entry costs, and the costs of fluctuations, NHH, Bergen, Norway, 18 June.
- Sedlacek, P. (2009). Inefficient employment decisions, entry costs, and the costs of fluctuations, UvA, Amsterdam, Netherlands, 8 May.
- Sterk, V. (2009). Credit Frictions and the Comovement between Durable and Non-durable Consumption, DNB, 24 February.
- Sterk, V. (2009). Credit Frictions and the Comovement between Durable and Non-durable Consumption, UvA, 13 March.
- Sterk, V. (2009). Credit Frictions and the Comovement between Durable and Non-durable Consumption, Tinbergen Institute (Christiano course), 12 May.
- Sterk, V. (2009). The Myth of Financial Innovation and the Great Moderation, DNB Annual Research Conference, 15 October.
- Sterk, V. (2009). Home Equity, Mobility and the Macroeconomy, DNB, 24 November.
- Sterk, V. (2009). Discussant of *Financial Structure and the Impact of Monetary Policy on Asset Prices* by Stefan Gerlach and Katrin Assenmacher-Wesche, DNB, 25 February.
- Sterk, V. (2009). Discussant of *New Keynesian Models, Banking Sector and Monetary Transmission*, by Olivier Pierrard and Gregory deWalque, DNB, 19 November.
- Teulings, C.N. (2009, 17-19 September). Return to tenure or seniority. IZA/CEPR 11th European Summer Symposium in Labour Economics, Ammersee, Germany
- Teulings, C.N. (2009, March 2nd), Macroeconomics Seminar Cambridge, London
- Teulings, C.N. (2009, June 25th) Workshop Mind the Gap – Potential and actual growth in the aftermath of crisis , Bruegel , Brussels
- Teulings, C.N. (2009, October 14th). Earnings profiles, EPL, labour market older workers, Arbeidsmarktconferentie, Amsterdam
- Vos, S.J. (2009). Intergenerational risk sharing, pensions and endogenous labor supply in general equilibrium, Netspar Theme Conference, Den Haag, February.
- Vos, S.J. (2009). Demographic risks and funded pensions in general equilibrium, University of Amsterdam, May.
- Willems, T. (2009). Imperfect information, lagged labor adjustment and the Great Moderation, University of Groningen, November.
- Willems, T. (2009). Imperfect information, lagged labor adjustment and the Great Moderation, Tilburg University, November.
- Willems, T. (2009). Visualizing the invisible: Estimating the New Keynesian output gap via a Bayesian approach, EC2 Real Time Econometrics Conference, Aarhus (Denmark), December
- Wind, J. de (2009). Discussant of *Inference in models with adaptive learning, with an application to the new Keynesian Phillips curve* by Sophocles Mavroeidis, Guillaume Chevillon, and Michael Massmann, De Nederlandsche Bank, Amsterdam, The Netherlands, February.
- Wind, J. de (2009). How well-behaved are higher-order perturbation solutions?, University of Amsterdam, Amsterdam, The Netherlands, October.
- Wind, J. de (2009). Discussant of *Credit and Banking in a DSGE Model of the Euro Area* by Andrea Gerali, Stefano Neri, Luca Sessa, and Federico Signoretti, 12th Annual DNB Research Conference on “Housing and Credit Dynamics: Causes and Consequences”, Amsterdam, The Netherlands, October.

- Wind, J. de (2009). Discussant of *Parameter Identification in an Estimated New Keynesian Open Economy Model* by Malin Adolfson and Jesper Lindé, 12th Central Bank Macroeconomic Modeling Workshop on “New advances in open economy modeling”, Jerusalem, Israel, October.
- Wind, J. de (2009). Employment Protection, Technology Choice, and Worker Allocation, Tinbergen Institute Amsterdam, Amsterdam, The Netherlands, November.
- Wind, J. de (2009). Employment Protection, Technology Choice, and Worker Allocation, 6th ECB/CEPR Labour Market Workshop on “European Labour Market Adjustment”, Frankfurt, Germany, December.
- Wind, J. de (2009). Employment Protection, Technology Choice, and Worker Allocation, De Nederlandsche Bank, Amsterdam, The Netherlands, December.

Other lectures on research

- Buccioli, A. (2009). Mini course on the Econometrics of Time Series and Panel Data. University of Verona, Italy, September.
- Buccioli, A. (2009). Mini course on the Econometrics of Financial Markets. University of Verona, Italy, March.
- Den Haan, W.J. (2009). Mini research seminar series on computational methods at London School of Economics, London, UK, January/February.
- Den Haan, W.J. (2009). Mini research seminar series on computational methods at Koc University, Istanbul, Turkey, October.
- Den Haan, W.J. (2009). Mini research seminar series on models with heterogeneous agents, Bank of Portugal, Lisbon, Portugal, October/November.
- Teulings, C.N. (2009, 21st January) Jan Brouwer Lezing ‘Transparantie, Risico en Solidariteit’
- Veestraeten, D.J.M. (2009). Course on International Economic Developments and Policy, Anton de Kom Universiteit van Suriname, Paramaribo, Suriname, August.
- Veestraeten, D.J.M. (2009). Lecture on the position and role the World Bank and the International Monetary Fund with emphasis on the food price increases for staff of the Dutch Ministry for Agriculture, Nature and Food Quality at Clingendael Institute (The Hague), 11 September.
- Wijnbergen, S.J.G. (2009). Tinbergen Lectures on Finance: the Credit Crisis, April.

Organisational contributions to conferences, workshops and seminars

- Den Haan, W.J. (2009). Organizer of MIInt weekly workshop.
- Den Haan, W.J. (2009). Program committee member of the 2009 Summer meetings of the European Economic Association, Barcelona, Spain.
- Den Haan, W.J. (2009). Co-organizer of the annual macro workshop, Mannheim, Germany.
- Den Haan, W.J. (2009). Co-organizer of the EABCN-UvA conference "After the Crisis: A New Agenda for Business Cycle Research?"
- Kirchner, M. (2009). Co-organizer of the KAFEE seminar series of the General Economics and Quantitative Economics groups at the University of Amsterdam.
- Klaassen, F.J.G.M. (2009). Organization of session at IMA Sport conference in Groningen.
- Ploeg, F. van der (2009). Member Programme Committee 24th EEA Annual Congress.
- Sterk, V. (2009). Co-organizer of the DNB Annual Research Conference, October 15-16.
- Teulings, C.N. (2009) Annual CPB Lecture (by Torsten Persson, June 3rd, The Hague)
- Teulings, C.N. (2009) CPB - OECD conference 'Political Economy of Structural Reform' (June 4th, The Hague)

Participation in academic networks & fellowships

- Beetsma, R.M.W.J. (2009). Research Fellow CEPR.
- Beetsma, R.M.W.J. (2009). Research Fellow CESifo.
- Beetsma, R.M.W.J. (2009). Fellow Tinbergen Institute.
- Beetsma, R.M.W.J. (2009). Fellow NAKI.
- Beetsma, R.M.W.J. (2009). International Research Fellow of Kiel Institute of World Economics.
- Beetsma, R.M.W.J. (2009). Senior Research Fellow of Netspar.

- Den Haan, W.J. (2009). Research Fellow CEPR.
Den Haan, W.J. (2009). Fellow Tinbergen Institute.
Ewijk, C. van (2009). Coordinator Netspar theme “Macroeconomics of Pensions”.
Giuliodori, M. (2009). Fellow Tinbergen Institute.
Jager, H. (2009). Research fellow *NAKE*.
Jager, H. (2009). Fellow *Amsterdam Institute for International Development (AIID)*.
Klaassen, F.J.G.M. (2009). Fellow Tinbergen Instituut.
Ploeg, F. van der (2009). Research Fellow CEPR.
Ploeg, F. van der (2009). Research Fellow CESifo.
Ploeg, F. van der (2009). Fellow Tinbergen Institute.
Ploeg, F. van der (2009). Senior Research Fellow, New College and Associate Member, Nuffield College, Oxford.
Ploeg, F. van der (2009). Faculty Associate, Smith School of Enterprise and the Environment, University of Oxford.
Ploeg, F. van der (2009). Co-Director, Oxford Centre for the Analysis of Resource Rich Economics, University of Oxford.
Stoltenberg, C.A. (2009). Research Associate, National Research Center 649 ‘Economic Risk’, Humboldt-University Berlin.
Romp, W.E. (2009). Fellow Tinbergen Institute.
Romp, W.E. (2009). Research Fellow Netspar.
Teulings, C.N. (2009) IZA
Teulings, C.N. (2009) CEPR
Teulings, C.N. (2009) Fellow Tinbergen Institute
Teulings, C.N. (2009) Board of advisors Willem F. Duisenbergstichting
Wijnbergen, S.J.G. van (2009). Fellow Tinbergen Institute.

Editor or member of editorial board

- Beetsma, R.M.W.J. (2009). Associate Editor, *Journal of Economic Literature*.
Beetsma, R.M.W.J. (2009). Associate Editor, *CESifo Economic Studies*.
Den Haan, W.J. (2009). Advisory editor, *Journal of Economic Dynamics and Control*.
Den Haan, W.J. (2009). Associate Editor, *Journal of Money Credit and Banking*.
Den Haan, W.J. (2009). Associate Editor, *Economica*.
Ewijk, C. van (2009). Editor, *De Economist*.
Ewijk, C. van & Leuvensteijn, M. van (eds) (2009). Homeownership and the labour market in Europe, Oxford University Press.
Hoogduin, L.H. (2009). Raad van Advies *Tijdschrift voor Politieke Economie*.
Jager, H. (2009). Member editorial board *Kwartaalschrift Economie*.
Ploeg, F. van der (2009). Member Editorial Board, *Journal of Financial Economic Policy*.
Ploeg, F. van der (2009). Member Editorial Board, www.mejudice.nl.
Ploeg, F. van der (2009). Co-Editor, *CESifo Economic Studies*.
Ploeg, F. van der (2009). Member Editorial Board, *Oxford Economic Papers*.
Ploeg, F. van der (2009). Member Editorial Board, *Journal of Cultural Economics*.
Ploeg, F. van der (2009). Member Editorial Board, *Journal of Economics*.
Teulings, C.N. (2009) Editor, *Journal of Labour Economics*
Wijnbergen, S.J.G. van (2009). Member editorial board, *Journal of Policy Reform*.

Referee activities

- Beetsma, R.M.W.J. (2009). Referee for *Journal of International Money and Finance*, *Economica* and *Oxford Economic Papers*.
Buccioli, A. (2009). Referee for *Journal of Economic Psychology*.
Den Haan, W.J. (2009). Referee for *Economic Journal*, *Economics Letters*, *Journal of Economic Dynamics and Control*, *Journal of Financial Economics*, *Journal of Money Credit and Banking*, *Quarterly Journal of Economics*, *Review of Economic Studies*, *Review of Income and Wealth*.

- Giuliodori, M. (2009). Referee for *Applied Economics*, *European Economic Review*, *Empirical Economics*, *Journal of International Money and Finance*, *Journal of Macroeconomics*, *Journal of Financial Stability*, *Economic Modelling*, *North American Journal of Economics and Finance*, *European Journal of Political Economy*.
- Klaassen, F.J.G.M. (2009). Referee for *Emerging Markets Finance and Trade*, *Journal of Sports Economics*, *Oxford Bulletin of Economics and Statistics*, *International Journal of Forecasting*, *IMA Journal of Management Mathematics*.
- Romp, W.E. (2009). Referee for *American Economic Review*, *Macroeconomic Dynamics*, *International Tax and Public Finance*, *Journal of Public Economic Theory*.
- Stoltenberg, C.A. (2009). Referee for *Econometrica*, *Economic Journal*, *Journal of Money, Credit and Banking*.
- Veestraeten, D.J.M. (2009). Referee for *Journal of Futures Markets*.
- Wijnbergen, S.J.G. van (2009). Referee for *Journal of Money Credit and Banking*, *Journal of International Economics*, *Journal of Development Economics*.
- Wind, J. de (2009). Referee for *Journal of Economic Dynamics and Control*.

Membership of academic committees (including PhD-Committees outside the FEE)

- Beetsma, R.M.W.J. (2009). Member promotion committee of Tijmen Daniels, FEB UvA.
- Den Haan, W.J. (2009). Member promotion committee, Tijmen Daniels, FEB UvA.
- Den Haan, W.J. (2009). External member promotion committee of Antonio Mele, Universitat Pompeu Fabra, Barcelona, Spain.
- Den Haan, W.J. (2009). External member promotion committee of Sofia Bauducco, Universitat Pompeu Fabra, Barcelona, Spain.
- Den Haan, W.J. (2009). External member promotion committee of Pawel Zabczyk, London School of Economics, London, UK.
- Ewijk, C. van (2009), Member promotion committee of M. van Leuvensteijn, Universiteit van Utrecht.
- Hoogduin, L.H. (2009). Promotor of M.C.J. van Rooij. Promotor, University of Utrecht.

Research contributions in the media

- Beetsma, R.M.W.J. (2009). Radio interview on the Dutch economy, *Omrop Fryslan*. 3 March
- Beetsma, R.M.W.J. & Giuliodori, M. (2009). The macroeconomic costs and benefits of the Economic and Monetary Union, *Vox*, 27 November.
- Jager, H. (2009). Interview: “Het einde van de dollar als sleutelvaluta?”, *Business Nieuws Radio*, 24 August.
- Romp, W.E. (2009). Radio interview on the retirement age, *Radio 2*, 30 September.
- Wijnbergen, S.J.G. van (2009). Interviews in (among others) *Vrij Nederland*, *Elsevier*, *Haagsche Post/de Tijd*, television/radio interviews *Radio1*, *NOS journaal*, *Nova*, *Netwerk*, *BNR*, *het Gesprek* and others, on macroeconomic developments, credit crisis; Oped articles NRC and FD.

Grants, prizes and honours

- Beetsma, R.M.W.J. (2009). Theme grant for “The Macroeconomics of Pension Reform”, awarded by Netspar.
- Beetsma, R.M.W.J. (2009). Grant for three-year postdoc position on project “Pension Premia, Buffers and Business Cycles”, awarded by MnServices.
- Den Haan, W.J. (2009). VICI scholarship from N.W.O.
- Wijnbergen, S.J.G. van (2009). 4 year grant for research on credit crisis consequences, Gieskes-Strijbosch Foundation.

Various activities

- Beetsma, R.M.W.J. (2009). Member of Supervisory Board of BNG Capital Management (BCM).
- Beetsma, R.M.W.J. (2009). Commissie Toekomstbestendigheid Aanvullende Pensioenregelingen, Ministry of Social Affairs and Employment.
- Den Haan, W.J. (2009). Academic partner of the Netherlands Bureau for Economic Policy Analysis.
- Jager, H. (2009). Member advisory board of *FONDAD (Forum on Debt and Development)*, The Hague.
- Jager, H. (2009). Member selection committee *Isaac Roet Prijs*.

- Ewijk, C. van (2009). Member Social Economic Council, Den Haag.
- Ewijk, C. van (2009). Member Steering Committee ENEPRI, Brussels.
- Ewijk, C. van (2009). Member Commissie Pensioenparameters, Den Haag.
- Ewijk, C. van (2009). Member Commissie Disconot en Risicowaardering, Den Haag.
- Kirchner, M. (2009). Internship, Directorate General Economics, Fiscal Policies Division, European Central Bank, Frankfurt (Main), Germany, April-September.
- Wijnbergen, S.J.G. van (2009). Member *Advisory Council Nederlandse Zorg Autoriteit Foundation*.
- Wijnbergen, S.J.G. van (2009). Advisory committee to the minister of Economic Affairs on postal market deregulation.
- Wijnbergen, S.J.G. van (2009). Advisory committee to the minister of Economic Affairs on valuation of radio frequency distribution.

CHAPTER 7: HUMAN CAPITAL

<i>Subprogrammes:</i>	<i>TIER & AIID</i>
<i>Programme director:</i>	<i>Prof.dr J. Hartog</i>
<i>Department:</i>	<i>Economics</i>
<i>METIS code:</i>	<i>uva/fee/res/hum/prog</i>
<i>JEL-classification:</i>	<i>I, J, L</i>
<i>Website:</i>	<i>www.ase.uva.nl/scholar</i>
<i>Starting date programme:</i>	<i>2001</i>
<i>VSNU-scores 2001-2007:</i>	<i>Quality: 4.5, Productivity: 4, Relevance: 5, Viability: 4,5</i>

7.1 MEMBERS OF THE RESEARCH GROUP AND RESEARCH IN FTES

<i>Name</i>	<i>Title</i>	<i>Function</i>	<i>Total 2006</i>	<i>Total 2007</i>	<i>Total 2008</i>	<i>Total 2009</i>	<i>Dept.</i>	<i>Funding</i>
Buser, T.	msc	phd	-	-	-	0,20	AE	1
Chevalier, A.	dr	guest	-	-	-	0,00	AE	1
Cornelisse-Vermaat, J.R.	drs	oz	0,00	-	-	-	AE	2
Dominguez Martinez, S	dr	ud	-	0,17	0,50	0,50	AE	1
Ferrer-i-Carbonell, A.	dr	oz	0,84	0,67	-	-	AE	2
Hartog, J.	prof dr	hgl	0,25	0,38	0,50	0,50	AE	1
Jany, L.	dr	guest	-	-	0,00	-	AE	1
Jolivet, G.	dr	oz	0,92	-	-	-	AE	3
Kastoryano, S.P.	msc	phd	-	-	-	0,10	AE/VU	1
Klaauw, B. van der	dr	guest	0,00	-	-	-	AE	1
Leuven, E.	dr	postdoc	0,90	0,90	0,60	-	AE	2
Maestri, V.	dr	oz	-	0,75	0,50	-	AE	3
Maximiano, S.M.S.N.	msc	phd	0,45	-	-	-	AE	1
Mazza, J.	msc	phd	-	0,50	0,60	0,60	AE	2
Naper, L.	msc	guest	0,00	-	-	-	AE	1
Oosterbeek, H.	prof dr	hgl	0,50	0,50	0,50	0,50	AE	1
Plug, E.J.S.	dr	postdoc	0,90	-	-	-	AE	2
Plug, E.J.S.	dr	hgl	-	0,90	0,45	-	AE	2
Plug, E.J.S.	dr	hgl	-	-	0,25	0,50	AE	1
Praag, B.M.S. van	prof dr	hgl	0,00	0,00	0,00	0,00	CvB	pm
Praag, C.M. van	prof dr	hgl	0,25	0,25	0,25	0,25	AE/BS	1
Rønning, M.	msc	guest	0,17	-	-	-	AE	2
Rosero Moncayo, J.A.	msc	phd	-	-	0,20	0,60	AE	1
Siemens, F.A von	dr	ud	-	-	0,17	0,50	AE	1
Sloof, R.	dr	uhd	0,50	0,50	0,50	-	AE	1
Sloof, R.	prof dr	hgl	-	-	0,00	0,50	AE	1
Sluis, J. van der	drs	phd	0,40	-	-	-	AE	1
Stel, A.J. van	dr	oz	-	-	0,21	0,42	AE	3
Valdenaire, M.	dr	oz	-	0,42	0,83	-	AE	3
Welie, E.A.A.M. van	dr	guest	-	-	0,00	0,00	AE	1
Ijsselstein, A.	drs	phd	0,60	0,20	-	-	AE	1
Theeuwes, J. (ENCORE)	prof dr	hgl	0,40	-	-	-	AE	3
Theeuwes, J. (ENCORE)	prof dr	hgl	0,03	-	-	-	AE	1

Human Capital – Hartog
Economics

<i>Name</i>	<i>Title</i>	<i>Function</i>	<i>Total 2006</i>	<i>Total 2007</i>	<i>Total 2008</i>	<i>Total 2009</i>	<i>Dept.</i>	<i>Funding</i>
Subprogramme TIER								
Balvers, M.P.J.M.	MSc	guest	-	-	-	0,00	AE	1
Booij, A.S.	drs	phd	0,60	0,20	-	-	AE	2
Booij, A.S.	dr	guest	-	-	0,00	0,00	AE	1
Ewijk, R.J.G.	drs	phd	-	-	0,00	0,00	AE	1
Ewijk, R.J.G.	dr	postdoc	-	-	-	0,50	AE	3
Groot, W.	prof dr	guest	0,00	0,00	0,00	0,00	AE	3
Haan, M. de	msc	phd	0,60	0,60	0,40	-	AE	2
Haan, M. de	dr	oz	-	-	0,30	0,80	AE	3
Heerden, A. van	MSc	oz	-	-	-	0,00	AE	1
Hidalgo, D.	drs	phd	-	-	-	0,20	AE	3
Huang, J.	msc	phd	0,60	0,60	0,60	0,40	AE	2
Huang, J.	msc	oz	-	-	-	0,33	AE	3
Klaveren, C.P.B.J. van	drs	phd	0,30	-	-	-	AE	1
Klaveren, C.P.B.J. van	drs	guest	-	0,00	0,00	0,00	AE	1
Maassen van den Brink, H.	prof dr	hgl	0,50	0,50	0,51	0,53	AE	3
Mensink, J.	dr	guest	-	-	0,00	-	AE	2
Webbink, D.	dr	guest	0,00	0,00	0,00	0,00	AE	1
Wolf, I.F. de	dr	guest	0,00	0,00	0,00	0,00	AE	1
Subprogramme AIID								
Gaag, J. van der	prof dr	hgl	-	-	-	0,80	AE	3
Lammers, J.	dr	oz	-	-	-	1,00	AE	3
Pradhan, M.P.	prof dr	hgl	-	-	-	0,15	AE	1
Subprogramme Gender & Population Economics								
Gustafsson, S.S.	prof dr	hgl	0,25	0,25	0,02	-	AE	1
Schreuder, K.	drs	phd	0,38	-	-	-	AE	2
Tijdens, K.G.	dr	oz	0,50	0,50	-	-	AE	2
Tijdens, K.G.	dr	oz	0,30	0,30	-	-	AE	1
Wetzels, C.M.M.P.	dr	postdoc	1,00	0,25	-	-	AE	3
Yergou Worku, S.	msc	phd	0,15	-	-	-	AE	1
Subprogramme Social Inequality & Direct Welfare Measurement								
Odink, J.G.	dr	uhd	0,10	0,11	-	-	AE	1
Total 1st flow of funds			4,08	2,66	2,89	4,30		
Total 2nd flow of funds			5,49	4,87	2,65	1,00		
Total 3rd flow of funds			2,82	1,92	2,35	4,58		
Total 1st f.o.f. excl. Ph.D.'s			2,18	2,46	2,69	3,40		
Total all flows of funds			12,39	9,45	7,89	9,88		
Ph.D. students			4,08	2,10	1,80	2,10		

7.2 PROGRAMME DESIGN

Mission

The Programme aims to improve the understanding of the economic role of human capital.

Motivation

Human capital is the key concept to describe, analyse and understand individual competencies in the labour market. They are vital for individuals' welfare, for business performance and for aggregate economic performance. Understanding issues of definition, measurement, investment, obsolescence, utilization and (market) valuation of human capital can contribute to a better understanding of the functioning of external and internal labour markets, and form the basis for solid advice on policy issues related to socio-economic questions of efficiency and distribution of economic welfare.

Techniques

Participants of the Programme apply techniques from microeconomics (including applied game theory), econometrics and experimental economics. The research orientation is both theoretical and empirical.

Subprogrammes and projects

Human capital has a very flexible structure, with scope for individual research projects, internal and external joint work and cooperation and more formal projects. For many years SCHOLAR, funded by a large grant from NWO, was a highly successful project on the interaction between education and the labour market. SCHOLAR has been succeeded by TIER, *Top Institute for Evidence Based Education Research*, started May 1, 2008, a new recognition of the successful blend of scientific quality and policy relevance. TIER is funded by a large 5-year grant from the Ministry of Education (and matching by participating universities), but the grant is fully administered by NWO. The Institute is joint with RU Groningen, RU Maastricht and CPB. Research will focus on the effectiveness of policy interventions in education.

Research in the Human Capital Program cover several topics, such as intergenerational transmission of inequality (Plug), on incentives, payment systems and internal organization of firms (Sloof), on entrepreneurship (C.M. van Praag), on immigration and on risk issues in schooling (Hartog). Van Praag's work on entrepreneurship and schooling involves cooperation with the flourishing and expanding ACE, The Amsterdam Center of Entrepreneurship. Scholars from AIID also participate in the program. The Amsterdam Institute for International Development (AIID) is a joint initiative of the University of Amsterdam and the VU University Amsterdam. AIID is a multidisciplinary research network with a strong focus on generating evidence to improve the design of policies to reduce poverty. AIID scholars participate in particular with their research on human capital and health and with impact evaluation of sector-wide programs.

7.3 PROGRAMME EVALUATION

Human Capital continues to be a flourishing research program. Members generate a permanent flow of high quality research output and have a strong international reputation. Reputation is evident from invitations for (keynote) speeches, contributions to research volumes, journal guest editorship, and referee activities for the world's leading journals. Research quality makes Human Capital attractive for visiting professors, post-docs and PhD students. Members are also frequently consulted on government policy issues (ad hoc and in institutions like Onderwijsraad (Education Council) and undertake commissioned research that fits their academic program. Within Human Capital, the focus on entrepreneurship has continued to expand, with increasing success in academia and in the interface between science and society. Within the Tinbergen Institute, labour economics is an active, lively research area, with substantial international exchange; Human Capital members play an important role here. The quality of the program has been recognised by a high rating in the recent VSNU Research Assessment.

The relevance of research in the Human Capital program has drawn international attention, and there is active international cooperation. The emphasis on new methodological methods to detect causal effects of policy interventions has led to cooperation with government officials in Ecuador and with AIID scholars.

7.4 RESOURCES AND FUNDING

TIER is externally funded, with an earmarked grant from the Ministry of Education to NWO. All tenured researchers are now funded by FEB. One Ph.D. student is externally funded (NWO). Several visiting researchers participate in the program, without financial compensation. Researchers with external funding either have left or have switched to regular FEB funding.

7.5 OUTPUT

Key publications

- Diaz Serrano, L., Hartog, J. & Skyt Nielsen, H. (2008). Compensating Wage Differentials for Schooling Risk in Denmark, *Scandinavian Journal of Economics*, 110 (4), 711-731
- Bjorklund, A., M. Lindahl, E. Plug (2006), The origins of intergenerational associations: lessons from Swedish adoption data, *Quarterly Journal of Economics*, 121 (3), 999-1028
- Leuven, E., M. Lindahl, H. Oosterbeek and D. Webbink (2007), The effect of extra funding for disadvantaged students on achievement, *Review of Economics and Statistics* 89 (4), 721-736
- Maximiano, S., R. Sloof and J. Sonnemans (2007), Gift exchange in a multi-worker firm, *Economic Journal* 117, 1025-1050
- Parker, S. C. and C. M. van Praag (2006), Schooling, capital constraints and entrepreneurial performance: the endogenous triangle, *Journal of Business and Economic Statistics* 24 (4), 416-431
- Groot, W. and H. Maassen van den Brink (2006), The compensating income variation of cardiovascular disease, *Health Economics* 15, 1143-1148

Forthcoming

- Barling, B. & Siemens, F.A. von (2010). Equal Sharing Rules in Partnerships. Forth-coming in *Journal of Institutional and Theoretical Economics*. [B]
- Berkhout, P., Hartog, J. & Webbink, D. (2010) Compensation for earnings risk under worker heterogeneity. Forthcoming in *Southern Economic Journal*, 76 (3).
- Booij, A., Praag, B.M.S. van & Kuilen, G. van de (2010). A Parametric Analysis of Prospect Theory's Functionals for the General Population. Forthcoming in *Theory and Decision*.
- Ewijk, R.J.G. van & Slegers, P.J.C. (2010). Peer ethnicity and achievement: a meta-analysis into the compositional effect. Forthcoming in: *School Effectiveness and School Improvement*.
- Haan, M. de & Plug, E. (2010). Estimating Intergenerational Schooling Mobility on Censored Samples: Consequences and Remedies. Forthcoming in *Journal of Applied Econometrics*.
- Haan, M de (2010). Birth Order Family Size and Educational Attainment. Forthcoming in *Economics of Education Review*
- Hartog, J. (2010). Ethnic minorities in The Netherlands In: Kahanic, M. (editor), *Ethnic Minorities in European Labour Markets: Challenges and Solutions*, Edward Elgar
- Hartog, J., Praag, C.M. van & Sluis, J. van der (2010). If you're so smart, why aren't you an entrepreneur? Forthcoming in *Journal of Economics and Management Strategy*. [B]
- Leuven, E., Oosterbeek, H. & Klaauw, B. van der (2010). The effect of financial rewards on students achievement: Evidence from a randomized experiment. Forthcoming in *Journal of the European Economic Association*.
- Leuven, E., Lindahl, M., Oosterbeek, H. & Webbink, D. (2010). Expanding schooling opportunities for 4-year-olds. Forthcoming in *Economics of Education Review*.
- Oosterbeek, H. & Webbink, D. (2010). Does studying abroad induce a brain drain? Forthcoming in *Economica*.
- Oosterbeek, H., Praag, M. van & IJsselstein, A. (2010). The impact of entrepreneurship education on entrepreneurship skills and motivation. Forthcoming in *European Economic Review*. [A]
- Parker, S.C. & Praag, C.M. van (2010). Group status and entrepreneurship, *Journal of Economics and Management Strategy* [B]
- Praag, B.M.S. van, Klaveren, C. van & Maassen van den Brink, H. Collective Labor Supply of Native Dutch Immigrant Households in the Netherlands. Forthcoming in *Household Economic Behaviour* (editor: Molina, J.S). Springer 2010
- Praag, C.M. van (2010). Who values the status of the entrepreneurship? In the *Handbook of Research on Innovation and Entrepreneurship* (ed. David Audretsch), Edward Elgar [B]
- Praag, B.M.S. van & Ferrer-i-Carbonell, A. (2010). Towards and Urban Quality of Life Index: Basic Theory and Econometric Methods. In: Lora, E., Powell, A. & Praag, B.M.S. van (eds), *The Quality of Life in Latin American Cities*. World Bank Publications.

- Siemens, F.A. von (2010). The Intensity of Incentives in Firms and Markets: Moral Hazard with Envious Agents. Forthcoming in *Labour Economics*. [B]
 Vijverberg, W. & Hartog, J. (2010). Characterising heterogeneity in labour demand, an analysis of the DOT data. Forthcoming in *Applied Economics* .e-published Jan 10 2008

Publications in numbers

<i>Human Capital</i>				2009
1) Academic publications	a) in refereed journals	A	4	14
		B	6	
		C	4	
	b) in other journals			5
		c) book chapters	A	2
	B		1	
	C		-	
	Other		-	
	d) in proceedings	Other		0
				22
Total			22	
2) Monographs		A	-	0
		B	-	
		C	-	
		Other	-	
3) Ph.D. theses			4	
4) Professional publications			4	
5) Popular publications			3	
6) Working papers			17	
Total			50	

Dissertations

- Ewijk, R.J.G. van (2009, 20 October). *Empirical essays on education and health*. Universiteit van Amsterdam. [promotor prof. dr H. Oosterbeek; co-promotor prof. dr. P.J.C. Slegers] [cat. II]
 Klaveren, C.P.B.J. van (2009, 2 juli) *The Intra-household Allocation of Time*. Universiteit van Amsterdam. [Promotores: Prof.dr. H. Maassen van den Brink, Prof.dr. B.M.S. van Praag] [cat. I]
 Golpe Moya, A. A. (2009, 24 June) *Self-employment and Business Cycles*. University of Huelva, Spain, (Promotores: Prof. dr. E. Congregado & Dr. A.J. van Stel).
 Vassall, A. (2009, 29 oktober) *The Costs and Cost-effectiveness of Tuberculosis Control*. Universiteit van Amsterdam. [Promotor: Prof.dr. J. van der Gaag, Co-promotor: Prof.dr. M.W. Borgdorff] [cat. II]

Academic publications (excluding publications in/of books) – refereed

A

- Booij, A.S. & Praag, B.M.S. van (2009). A simultaneous approach to the estimation of risk aversion and the subjective time discount rate. *Journal of Economic Behavior and Organization*, 70, (1-2), 374-388. [A]
 Dominguez-Martinez, S. & Swank, O.H. (2009). A Simple Model of Self-Assessment. *Economic Journal*, 119, (539), 1225-1241[A]
 Kosfeld, M. & Siemens, F.A. von (2009). Worker Self-Selection and the Profits from Cooperation. *Journal of the European Economic Association*, 7, (1-2), 573-584. [A].
 Siemens, F.A., von (2009). Bargaining under Incomplete Information, Fairness, and the Hold-Up Problem. *Journal of Economic Behavior and Organization*, 71, (2), 486-494. [A]

B

- Booij, A. & Kuilen, G. van de (2009). A Parameter-Free Analysis of the Utility of Money for the General Population under Prospect Theory. *Journal of Economic Psychology* 30, (4), 651-666. [B]
 Diaz Serrano, L., Hartog, J. & Skyt Nielsen, H. (2009). Compensating Wage Differentials for Schooling Risk in Denmark, *Scandinavian Journal of Economics*, 110, 4, 711-731 [B]

- Hartog, J. & Zorlu, A. (2009). How important is homeland education for refugees' economic position in The Netherlands? *Journal of Population Economics*, 22, (1), 219-246 [B]
- Huang, J., Maassen van den Brink, H. & Groot, W. (2009), 'A meta-analysis of the effect of education on social capital', *Economics of Education Review*, 28, (4), 454-464 [B]
- Jacobs, B., Hartog, J. & Vijverberg, W. (2009). Self-selection bias in estimated wage premiums for earnings risk, *Empirical Economics*, 37, 2, 271-286 [B]
- Oosterbeek, H. & Broek, A. van den (2009) An empirical analysis of borrowing behaviour of higher education students in the Netherlands. *Economics of Education Review*, 28, (2), 170-177. [B]

Other

- Hartog, J. & Zorlu, A. (2009), Ethnic segregation in The Netherlands, *International Journal of Manpower*, 30 (1), 15-25
- Oosterbeek, H & Patrinos, H. (2009). Financing lifelong learning. *Empirical Research in Vocational Education and Training*, 1, (1), 19-37.
- Praag, C.M. van (2009). Race and Entrepreneurial Success: Black-, Asian-, and White-Owned Businesses in the United States 2008, by Fairlie, R.W. & Robb, A.M.. Cambridge and London: MIT Press, *Journal of Economic Literature* 47, p. 44-47 [book review]
- Xiaohao, D., Y.Sun, Y. & Hartog, J. (2009), "An Experimental Study on Risk Attitude and Choice Behavior of Education and Career". *Journal of Peking University Philosophy and Social Sciences*, 46 (1), 140-144

Academic publications (in/of books) – refereed

- Praag, B.M.S. van & Ferrer-i-Carbonell, A. (2009). Inequality and Happiness. In: *The Oxford Handbook of Economic Inequality*. 346-383. Oxford University Press. [A]
- Praag, C.M. van (2009). Academic Entrepreneurship in Europe: A Different Perspective, Chapter 12. In: Acs, Z., Audretsch, D. & Strom, R. (eds.), *Entrepreneurship, Growth and Public Policy*", (pp.284-298). Cambridge University Press, [A]
- Stam, E., Suddle, K., Hessels, S.J.A. and A.J. van Stel (2009), 'High-Growth Entrepreneurs, Public Policies, and Economic Growth', in: J. Leitao and R. Baptista (eds.), *Public Policies for Fostering Entrepreneurship: A European Perspective (International Studies in Entrepreneurship series, Vol. 22)*, New York: Springer Science, 91-110. [B]

Academic publications (working- and discussion papers)

- Berkhout, P., Hartog, J. & Ophem, H. van (2009). Starting Wages Respond To Employer's Risk, TI 2009-071/3
- Budria, S., Diaz, L., Hartog, J. & Ferrer-i-Carbonell, A. (2009). Risk Attitude and Wage Growth: Replication and Reconstruction, IZA DP 4124; also published as SOEP papers No.192.
- Buser, T. (2009). The Impact of Female Sex Hormones on Competitiveness, Tinbergen Institute Discussion Paper Nr. 2009-082/3
- Dominguez-Martinez, S., Siemens, F. von & Sloof, R. (2009). Monitoring lukewarm friends, not foes: Ignorance as commitment device. Universiteit van Amsterdam.
- Duha, R. & Praag, C.M. van (2009). Entrepreneurship, Wage Employment and Control in an Occupational Choice Framework. Tinbergen Institute Discussion paper 2009-055/3.
- Ewijk, R.J.G. van (2009). *Long-term health effects on the next generation of Ramadan fasting during pregnancy*, CEP Discussion Paper, No. 926, Centre for Economic Performance, London School of Economics.
- Groot, W. & Maassen van den Brink, H. (2009), *Werket de markt voor bedrijfsgerelateerde scholing? Een overzichtsstudie*, EcBo Expertisecentrum Beroepsonderwijs, Maastricht, p. 1-48, ISBN 978-94-6052-003-7 (TIER working paper 2009)
- Groot, W. & Maassen van den Brink, H. (2009), *Werket het scholingsbudget?*, Tier/UM Working paper, p. 1-34
- Hartog, J. (2009). A Risk-Augmented Mincer earnings equation? Taking stock, IZA DP 4439
- Klaveren, C. van, Maassen van den Brink, H. & Praag, B. van (2009), *Intra-Household Work Timing: The Effect on Joint Activities and the Demand for Child Care*. TIER/UM Working Paper, 2009-03, p. 1-36

- Klaveren, C. van, Maassen van den Brink, H. & Praag, B. van (2009), *Collective Labor Supply and Housework with Non-Participation of Women in Paid Labor*, TIER/UM Working Paper, 2009-04, p. 1-34
- Klaveren, C. van, Maassen van den Brink, H. & Praag, B. van (2009), *Collective Labor Supply of Native Dutch Immigrant Households in the Netherlands*, CESifo working papers, 2872, p. 1-25
- Kruse, I, Pradhan, M.P. & Sparrow, R. (2009). Marginal Benefit Incidence of Public Health Spending: Evidence from Indonesian sub-national data, AIID working paper 2009.
- Oosterbeek, H. & Ponce, J. (2009). The impact of computer use on wages in a developing country: Evidence from Ecuador. Universiteit van Amsterdam.
- Praag, C.M. van, Witteloostuijn, A. & Sluis, J. van der (2009). Returns for Entrepreneurs versus Employees: The Effect of Education and Personal Control on the Relative Performance of Entrepreneurs vis-a-vis Wage Employees. Tinbergen Institute Discussion Paper 09-111/3.
- Praag, C.M. van (2009). Who Values The Status of The Entrepreneur Tinbergen Institute Discussion Paper 09-056/3.
- Sloof, R. & Sonnemans, J. (2009). The interaction between explicit and relational incentives: An experiment (revise and resubmit). Universiteit van Amsterdam.

Academic publications (in proceedings) – non-refereed

- Praag, CM van (2009). ACE Entrepreneurship Update 6 *Waarom groeien sommige bedrijven sneller dan andere?*

Professional publications

- Hartog, J. (2009). Lenen en sparen. *AElementair*, 8(4), 17-22
- Praag, CM van (2009). *Waarom groeien sommige bedrijven sneller dan andere?* ACE Entrepreneurship Update 6, (2009).
- Praag, C.M. van (2009). Fiscaal beleid voor ondernemers: stimuleer de toppers. *Week-blad Fiscaal Recht* 6812, p. 595-597.
- Praag, C.M. van (2009). *Fiscaal bevorderen van groei en innovatie via de DGA?* Essay voor de Studiecommissie Belastingstelsel (Van Weeghel) over ondernemerschap en fiscaliteit

Popular publications

- Hartog, J. (2009, March). De terugkeer van de intellectueel. *fd.Outlook*, 2 (1), 37-41
- Hartog, J. (2009). Columns voor *Rostra Economica*
- Praag, C.M. van (2009, November 14), Ondernemerschap selectiever stimuleren. *Het Financieele Dagblad*, Optiek

Contributions to academic conferences, workshops and seminars

- Buser, T. (2009, September). The impact of female sex hormones on competitiveness. Presentation at ABEE conference in Amsterdam
- Buser, T. (2009, November). The impact of female sex hormones on competitiveness. Presentation at ESA North American Meeting in Tucson, USA
- Dominguez-Martinez, S. (2009, 11 September). Task Assignment and Coaching. EALE. Conference presentation.
- Dominguez-Martinez, S. (2009, 19 September). Monitoring lukewarm friends not foes: Ignorance as commitment device. Economic Science Association European Meeting. Conference presentation.
- Dominguez-Martinez, S. (2009, 30 October). Monitoring lukewarm friends not foes: Ignorance as commitment device. ESE Conference Experiments in Organizations, Erasmus University Rotterdam. Conference presentation.
- Ewijk, R.J.G. van (2009, 13 January). Long-term health effects on the next generation of Ramadan fasting during pregnancy. University of Amsterdam Medical Faculty (AMC) Amsterdam, The Netherlands. Seminar.
- Ewijk, R.J.G. van (2009, 24 February). Long-term health effects on the next generation of Ramadan fasting during pregnancy. London School of Economics, London, UK.. Seminar

- Ewijk, R.J.G. van (2009, 13 March). Same work, lower grade? Student ethnicity and teachers' subjective assessments. Final Conference of The EEEPE Marie Curie RTN, London, UK.
- Ewijk, R.J.G. van (2009, 17 March). Long-term health effects on the next generation of Ramadan fasting during pregnancy. Chicago Federal Reserve Bank. Chicago, USA. Seminar.
- Ewijk, R.J.G. van (2009, 18 May). Long-term health effects on the next generation of Ramadan fasting during pregnancy. Centre for European Economic Research (ZEW), Mannheim, Germany. Seminar.
- Haan, M. de (2009, 28-29 May). *School Choice and Pupil Outcomes: Evidence from Dutch Reform Data*. IFN Conference Beyond the resource constraint: Alternative ways to improve schooling. Vaxholm, Sweden
- Haan, M. de (2009, 10-12 September). *The Effect of Parents' Schooling on Child's Schooling: A Nonparametric Bounds Analysis*. 21st annual EALE Conference, Tallinn, Estonia.
- Groot, W. & Maassen van den Brink, H. (2009), 'De effectiviteit van een individueel scholingsbudget', *Economisch Statistische Berichten*, 94/4565, p. 454-457
- Groot, W., Maassen van den Brink, H. (2009), 'Het turbulente leven van Meavita', *Het Financieele Dagblad*, 18-04-09
- Groot, W., Maassen van den Brink, H. (2009), 'Kwaliteit leraren moet beter', *Het Financieele Dagblad*, 23-05-09
- Groot, W., Maassen van den Brink, H. (2009), 'Sluit zorg niet uit van faillissement', *Het Financieele Dagblad*, 10-06-09
- Groot, W., Maassen van den Brink, H. (2009), 'Bondgenoten voor het vuile werk', *Het Financieele Dagblad*, 28-09-09
- Groot, W., Maassen van den Brink, H. (2009), 'Te snel onder de indruk van Amerika', *Het Financieele Dagblad*, 12-09-09
- Groot, W., Maassen van den Brink, H. (2009), 'Toezicht aan banden', *Het Financieele Dagblad*, 26-10-09
- Groot, W., Maassen van den Brink, H. (2009), 'Het raadsel van de nauwelijks gestegen zorgpremies', *Het Financieele Dagblad*, 09-11-09
- Groot, W., Maassen van den Brink, H. (2009), 'De NMa moet gewoon haar werk beter doen', *Het Financieele Dagblad*, 23-11-09
- Groot, W., Maassen van den Brink, H. (2009), 'Arme Apothekers', *Het Financieele Dagblad*, 13-10-09
- Groot, W., Maassen van den Brink, H. (2009), 'De kaasschaaf opgeborgen', *Het Financieele Dagblad*, 07-12-09
- Groot, W., Maassen van den Brink, H. (2009), 'Onderzoekers zien zorgverzekerings-spoken', *Het Financieele Dagblad*, 21-12-09
- Groot, W. & Maassen van den Brink, H. (2009), 'Een Pisa voor het hoger onderwijs', *HO Management*, 3/1, p. 19
- Groot, W. & Maassen van den Brink, H. (2009), 'Differentiatie in collegegeld', *HO Management*, 1/6, p. 19
- Groot, W. & Maassen van den Brink, H. (2009), 'Euroshopper universiteit', *HO Management*, 1/1, p. 13
- Groot, W. & Maassen van den Brink, H. (2009), 'De prijs van de crisis', *HO Management*, 1/4, p. 13
- Groot, W. & Maassen van den Brink, H. (2009), 'Competitie en kwaliteit van onderzoeksfinanciering', *HO Management*, 5/1, p. 15
- Groot, W. & Maassen van den Brink, H. (2009), 'Evidence based bezuinigen', *HO Management*, 1/8, p. 15
- Groot, W. & Maassen van den Brink, H. (2009), 'California dreaming', *HO Management*, 1/7, p. 17
- Groot, W. & Maassen van den Brink, H. (2009), 'Werkt de markt voor bedrijfsgerelateerde scholing?', *RBO Perspectief*, 10, p. 20-21
- Hartog, J. (2009, 11 March). Risk attitude and wage growth: replication and reconstruction, RIW Essen, Germany.
- Hartog, J. (2009, 22 September). Starting wages respond to employer's risk, City University of New York, Center of Graduate Studies.
- Hartog, J. (2009, 1 October). Starting wages respond to employer's risk, Columbia University, Teacher's College
- Hartog, J. (2009, 20 October). Starting wages respond to employer's risk, SUNY Albany.
- Hartog, J. (2009, November 6-8). Facing challenges to higher education: a Dutch perspective, Beijing Forum, Beijing, China.
- Maassen van den Brink, H. (2009), 'Weerstand tegen productieve dienstverlening in het onderwijs', *Economisch Statistische Berichten*, 94/4553, p. 79

- Maassen van den Brink, H. (2009), 'Freud, Drees en het profijtbeginsel', *Economisch Statistische Berichten*, 94/4573, p. 719
- Maassen van den Brink, H. (2009), 'Liever beter dan meer', *Economisch Statistische Berichten*, 94/4563, p. 399
- Maassen van den Brink, H. (2009), 'Recessie biedt kans om leven lang leren echt te stimuleren', *Het Financieele Dagblad*, 15-01-09
- Maassen van den Brink, H. (2009), 'Langer en vooral ook slimmer werken', *Het Financieele Dagblad*, 12-02-09
- Maassen van den Brink, H. (2009), 'Donner moet regeling werktijdverkorting verruimen', *Het Financieele Dagblad*, 12-03-09
- Maassen van den Brink, H. (2009), 'Toezicht op een koopje', *Zorgvisie*, 39/3, p. 7
- Maassen van den Brink, H. (2009), 'Numerus fixus', *Zorgvisie*, 39/7, p. 7
- Maassen van den Brink, H. (2009), 'Slechte opvoeder', *Zorgvisie*, 39/1, p. 7
- Maassen van den Brink, H. (2009), 'Markten maken en bewaken', *Zorgvisie*, 39/5, p. 7
- Maassen van den Brink, H. (2009), 'Cowboys', *Zorgvisie*, 39/9, p. 7
- Plug, E. (2009, February). Understanding the Gay Gap: An Empirical Analysis of Sexual Orientation, Disclosure and Earnings. Royal Holloway, University of London
- Plug, E. (2009, March). Understanding the Gay Gap: An Empirical Analysis of Sexual Orientation, Disclosure and Earnings. IZA, Bonn
- Plug, E. (2009, April). Understanding the Gay Gap: An Empirical Analysis of Sexual Orientation, Disclosure and Earnings. Uppsala University
- Plug, E. (2009, May). Slimme moeders, slimme kinderen? Vaderschap symposium, Universiteit van Amsterdam.
- Plug, E. (2009, August). Estimating Intergenerational Schooling Effects: A Comparison of Methods. Aarhus School of Business, Aarhus University.
- Plug, E. (2009, October). Estimating Intergenerational Schooling Effects: A Comparison of Methods, Bristol University.
- Plug, E. (2009, December). Estimating Intergenerational Schooling Effects: A Comparison of Methods, Tilburg University.
- Praag, C.M. van (2009, January). Workshop: *Frontiers in entrepreneurship research: 'The interplay of the entrepreneur and the firm over their life cycles'*, Portugal Lisbon hosted by Carnegie Mellon (S. Klepper) and the Technical University of Lisbon (Rui Baptista). Invited speaker
- Praag, C.M. van (2009, January). If you are so smart, why aren't you an entrepreneur? Returns to cognitive and social ability: Entrepreneurs versus employees. Invited seminar at the Centraal Plan Bureau, The Hague
- Praag, C.M. van (2009, February). If you are so smart, why aren't you an entrepreneur? Returns to cognitive and social ability: Entrepreneurs versus employees. Faculty Seminar at FEB, University of Amsterdam
- Praag, C.M. van (2009, March). The More Business Owners the Merrier? The Role of Tertiary Education and If you are so smart, why aren't you an entrepreneur? Returns to cognitive and social ability: Entrepreneurs versus employees. Two paper presentations at IECER conference, Technical University Lisbon
- Praag, C.M. van (2009, 23 April). Discussant of Lazear, E. Wages, Productivity and Retirement. NETSPAR Conference, Den Haag (SER)
- Praag, C.M. van (2009, April). Returns for Entrepreneurs versus Employees The effect of education and personal control on the relative performance of entrepreneurs *vis-à-vis* wage employees. Invited workshop presentation at Entrepreneurship workshop, University of Cassino, Italy
- Praag, C.M. van (2009, June). Returns for Entrepreneurs versus Employees The effect of education and personal control on the relative performance of entrepreneurs *vis-à-vis* wage employees. Paper presentation at Babson Conference, Boston Paper presentation at Babson Conference, Boston
- Praag, C.M. van (2009, July). If you are so smart, why aren't you an entrepreneur? Returns to cognitive and social ability: Entrepreneurs versus employees. Invited seminar at Norway Statistics, Oslo, Norway.
- Praag, C.M. van (2009, August). Entrepreneurship Education Evaluated. Invited Panel member Practitioners Development Workshop (PDW) on Entrepreneurship Education, Academy of Management Conference, Chicago.

- Praag, C.M. van (2009, September). If you are so smart, why aren't you an entrepreneur? Returns to cognitive and social ability: Entrepreneurs versus employees. Invited workshop participant Entrepreneurship Economics. HES, Paris
- Praag, C.M. van (2009, October). Returns for Entrepreneurs versus Employees The effect of education and personal control on the relative performance of entrepreneurs *vis-à-vis* wage employees. Invited conference speaker at the opening of the Utrecht Center for Entrepreneurship, Utrecht University
- Pradhan, M.P. (2009). Marginal Benefit Incidence of Public Health Spending: Evidence from Indonesian sub-national data, Paper presented in seminars at University of Freiburg, Germany, and Brunel University.
- Pradhan, M.P. (2009). Seminars on impact evaluation of health insurance in developing countries, Lecturer in World Bank impact evaluation workshop, Cape Town, South Africa.
- Sloof, R. (2009, September). The effect of noise in a performance measure on work motivation: a real effort laboratory experiment. Conference presentation, Meeting of the European Association of Labour Economists, Tallinn.
- Sloof, R. (2009, September). Monitoring lukewarm friends, not foes: ignorance as commitment device, Conference presentation, Amsterdam Symposium on Behavioral and Experimental Economics, Amsterdam.
- Stel, A.J. van (2009) *RENT XXIII Conference* (Corvinus University, Budapest, Hungary), 19-20 November 2009, 'The More Business Owners The Merrier? The Role of Tertiary Education'.
- Stel, A.J. van (2009) *Seminar at CPB Netherlands Bureau for Economic Policy Analysis* (CPB, The Hague, the Netherlands), 12 May 2009, Discussant for paper presented by Frank van Es and Daniel van Vuuren: 'A Decomposition of the Growth in Self-employment'.
- Stel, A.J. van (2009) *IECER Conference 2009* (Instituto Superior Técnico, Technical University of Lisbon, Portugal), 4-6 March 2009, 'Productivity Levels of Entrepreneurs and Employees: A Macro Level Analysis'.
- Stel, A.J. van (2009) *International Workshop on 'Spatial Variations in Entrepreneurship'* (Utrecht University, the Netherlands), 26-27 February 2009, Discussant for paper presented by Rolf Sternberg: 'The Entrepreneurial Advantage of World Cities'.
- Stel, A.J. van (2009) *International Workshop on 'Post-Entry Performance of Firms: Survival, Innovation and Growth'* (Hitotsubashi University, Tokyo, Japan), 24 January 2009, 'The Entrepreneurial Adjustment Process in Disequilibrium: Entry and Exit when Markets Under and Over Shoot'.

Other lectures on research

- Praag, C.M. van (2009, January 22) Launching event CASE, 700 participants, presentation and discussion on (research about) entrepreneurship education
- Praag, C.M. van (2009, April 21) Discussion on entrepreneurship in FEBs Room for Discussion (with Arie van der Zwan)
- Praag, C.M. van (2009, May, 14), invited speaker at the *Fiscaal Symposium* organized by and at the Ministry of Finance (Den Haag)
- Praag, C.M. van (2009, May, 14), panelist at the *Creative Company Conference* (Muziekgebouw aan t IJ, Amsterdam)
- Praag, C.M. van (2009, June, 10), Dinner speech for club of female top lawyers, Amsterdam
- Praag, C.M. van (2009, September, 28), Speech on Entrepreneur Gazelles on conference organized by ACE, EIM and Het Financieele Dagblad, Amsterdam
- Praag, C.M. van (2009, December, 2), Speech on Entrepreneur Education (research) at InnovatiePlatform "Vrienden van de Wetenschap", Den Haag

Organisational contributions to conferences, workshops and seminars

- Plug, E. (2009). Coordinator Tinbergen Institute theme Labour Economics.
- Plug, E. (2009). Organizer of the weekly Tinbergen Empirical Microeconomics Seminar Series.
- Plug, E. (2009). Program committee ESPE conference.
- Praag, C.M. van (2009, November), ACE hosts the Global Entrepreneurship Week, Netherlands
- Praag, C.M. van (2009, September, 28), Conference on Entrepreneur Gazelles organized by ACE, EIM and Het Financieele Dagblad, Amsterdam

- Praag, C.M. van (2009, June 4) CASE hosts Breaking Out event, 500 participants (UvA)
Praag, C.M. van (2009, January 22) Launching event CASE, 700 participants, presentations and discussions on (research about) entrepreneurship education (Rinnooy Kan, A., Cohen, J., Gaal, A. van, et al.)

Participation in academic networks & fellowships

- Dominguez-Martinez, S. (2009). Junior Research Fellow Tinbergen Institute
Hartog, J. (2009). Fellow Tinbergen Institute
Hartog, J. (2009). Fellow IZA, Bonn, Germany
Hartog, J. (2009). Fellow CESifo
Hartog, J. (2009). Member KNAW (Royal Netherlands Academy of Sciences)
Oosterbeek, H. (2009). Regional coordinator European Expert Network of Economics of Education (EENEE)
Oosterbeek, H. (2009). Fellow Tinbergen Institute
Oosterbeek, H. (2009). Fellow Cesifo
Plug, E. (2009). Fellow Tinbergen Institute, Amsterdam
Plug, E. (2009). Fellow IZA, Bonn, Germany.
Plug, E. (2009). Council member European Society for Population Economics.
Praag, C.M. van (2009). Research Fellow Tinbergen Institute
Praag, C.M. van (2009). Research Professor at the Max Planck Institute of Economics, Jena
Praag, C.M. van (2009). Research Fellow IZA Institute for Labour Market Research, Bonn
Siemens, F.A. von (2009). CESifo Research Network Affiliate
Sloof, R. (2009). Research fellow at the Tinbergen Institute (since 2000)
Sloof, R. (2009). Fellow of the Amsterdam Center for Law and Economics (since 2008)

Editor or member of editorial board

- Hartog, J. (2009). Member, editorial board, *Economics of Education Review*
Oosterbeek, H. (2009). Member of editorial board of the *Economics of Education Review*
Praag, C.M. van (2009). Editor *Small Business Economics*

Referee activities

- Dominguez-Martinez, S. (2009). Referee for *Economics of Governance*
Ewijk, R.J.G. van (2009). Referee for *Economics of Education Review*, *Labour Economics*
Haan, M. de (2009). Referee for *Economics of Education Review*, *Labor Economics*, *Education Economics*
Hartog, J. (2009). Referee for *Empirica*, *Southern Economic Journal*, *Journal of Applied Economics*, *Labour Economics*, *Small Business Economics Journal*, *European Journal of Finance*, *Palgrave Macmillan*
Plug, E. (2009). Referee for *American Economic Review*, *CPB*, *Econometrica*, *Economics and Human Biology*, *Economics of Education Review* (2x), *Journal of Applied Econometrics*, *Journal of Labor Economics*, *Journal of Population Economics* (2x), *Labour Economics* (2x), *Journal of Economic Psychology*, *Review of Economic Studies*, *Scandinavian Journal of Economics*.
Praag, C.M. van (2009). Referee for *Journal of Applied Econometrics*, *Journal of Business Venturing*, *Journal of Economic Behavior and Organization*, *Journal of Labor Economics*, *Journal of Population Economics*, *Journal of Small Business Management*
Pradhan, M.P (2009). Referee for *World Development*, *Economic Development and Cultural Change*, *Journal of Development Studies*.
Sloof, R. (2009). Referee for *Economica*, *Experimental Economics*, *Quarterly Journal of Economics*, *The B.E. Journal of Theoretical Economics*.
Stel, A.J. van (2009) *Entrepreneurship and Regional Development*, *International Journal of Entrepreneurial, Venturing*, *Journal of Comparative Economics*, *Regional Studies*, *Small Business Economics*

Membership of academic committees (including Ph.D. committees outside the FEB)

- Hartog, J. (2009, July 19). Invited external member promotion committee of T. Mostafa, *The Anatomy of Inequalities in Attainments: An International Investigation on Stratification and Choice*. Promotor: prof Hanchane. Universite Aix-Marseille.
- Hartog, J. (2009). member QUANU Visitatie Commissie RU Groningen (National Committee to assess quality of education)
- Plug, E. (2009, August). Invited external member promotion committee of Vibeke Myrup Jensen. *Child Development--Perspectives from Private and Public Investments*. Promotor: prof. Paul Bingley. Aarhus University.
- Praag, C.M. van (2009). External member promotion committee A. van den Born. *The Drivers of Career Success*. Promotor: prof dr A. van Witteloostuijn. Universiteit Utrecht
- Praag, C.M. van (2009). External member promotion committee M. Preto. *Self-Employment across the EU-15*. Promotor: prof dr R. Baptista. Technical University of Lisbon, Portugal
- Praag, C.M. van (2009). External member promotion committee A. Golpe. *Self-employment and the business cycle*. Promotor: prof dr E. Congregado. University of Huelva, Spain
- Pradhan, M.P. (2009). Invited external member promotion committee E. van de Poel. *Urbanization, health and inequality in the developing world*. Promotor: prof. dr. E. van Doorslaer. Erasmus University, Rotterdam

Research contributions in the media

- Ewijk, R.J.G. van (2009, October 15). Interview with *Funx Radio*.
- Ewijk, R.J.G. van (2009, November). Interview in *Didaktief*.
- Praag, C.M. van (2009, January). FD Entrepreneur, Special about Centers for Entrepreneurship, *Financieele Dagblad* (interview)
- Praag, C.M. van (2009, January) interviews with Radio 3FM (22/1), Amsterdam City Radio (21/1), Het Parool (21/1; 23/1) related to the CASE launching event.
- Praag, C.M. van (2009, May 5). dossier carrière *Liever Eigen Baas*, Interview *Elsevier*
- Praag, C.M. van (2009, May 15). AVRO Radio 1 expert opinion on entrepreneurship
- Praag, C.M. van (2009, May 25). BNR in Business discussion about entrepreneurship
- Praag, C.M. van (2009, May 31). Guest in Buitenhof
- Praag, C.M. van (2009, May). Ondernemerstijdschrift *De Zaak*, Article about ACE and my research in
- Praag, C.M. van (2009, August 17). BNR in Business discussion about research on entrepreneurship and education (with Henny van de Most, H. van der & Starren, H.)
- Praag, C.M. van (2009, September 9). *Handelsblatt Wissenschaft & Debatte*, article about my research on entrepreneurship education, p 7
- Praag, C.M. van (2009, November 9). *Het Financieele Dagblad*, article about my research on entrepreneurship and the Bizworld Program, p 2
- Praag, C.M. van (2009) Member of VPRO Radio 1 Economics panel (August 6, 20; September, 24; October 29; November 26)
- Pradhan, M.P. (2009, September 29) Interview op BNR Nieuwsradio

Grants, prizes and honours

- Hartog, J. & Zorlu, A.(2009). Stichting GAK, Uitkeringgebruik door immigranten (E 26,000)
- Plug, E. (2009-2011). ‘Socio-economic determinants of cancer: Twin, adoptee and family based evidence from the Cancer Registry of Norway’. The Research Council of Norway. 3,300,000 NOK. (with Leuven, E. & Rønning, M.).

Various Activities:

- Buser, T. (2009). Academic visit with Prof. Niederle, M. at Standord University, USA
- Buser, T. (2009). Conducted eight session in the CREED laboratory for future paper
- Plug, E. (2009). Director of Graduate Studies Tinbergen Instituut, Committee member Research Priority Area Behavioral Economics

Human Capital – Hartog
Economics

- Praag, C.M. van (2009). Adviseur Studiecommissie Belastingstelsel (vrz Prof dr S. van Weeghel) van het Ministerie van Financien met betrekking tot het thema ‘Bevorderen ondernemerschap en fiscaliteit’
- Praag, C.M. van (2009). Voorzitter Commissie Wetsevaluatie Kamers van Koophandel, Ministerie van Economische Zaken
- Sloof, R. (2009). Referee for the MaGW Open Competitie 2009
- Sloof, R. (2009). Referee for the British Academy to assess application for research grant

Other

- Hartog, J. (2009). Member LOWI, Landelijk Orgaan Wetenschappelijke Integriteit (National Board on Scientific Integrity).

CHAPTER 8: HISTORY & METHODOLOGY OF ECONOMICS: THEORIZING, MODELING AND POLICY APPLICATION

<i>Programme directors:</i>	<i>Prof.dr. J.B. Davis & dr. M.J. Boumans</i>
<i>Department:</i>	<i>Economics</i>
<i>METIS-code:</i>	<i>uva/fee/res/hme/prog</i>
<i>JEL-classification:</i>	<i>B (B0-B5)</i>
<i>Website:</i>	<i>www.ase.uva.nl/hme</i>
<i>Starting date programme:</i>	<i>1998</i>
<i>VSNU-scores 2001-2010:</i>	<i>Quality: 3.5, Productivity: 4, Relevance: 3, Viability: 3.5</i>

8.1 MEMBERS OF THE RESEARCH GROUP AND RESEARCH IN FTES

<i>Name</i>	<i>Title</i>	<i>Function</i>	<i>Total 2006</i>	<i>Total 2007</i>	<i>Total 2008</i>	<i>Total 2009</i>	<i>Dept.</i>	<i>Funding</i>
Blaug, M.	prof dr	hgl	0,05	0,05	0,03	-	AE	1
Boumans, M.J.	dr ir	uhd	0,50	0,50	0,50	0,50	AE	1
Damsma, D.F.	drs	oz	0,58	0,58	-	-	AE	1
Damsma, D.F.	drs	docent	-	-	0,00	0,00	AE	1
Damsma, D.F.	drs	guest	-	-	-	0,00	AE	1
Davis, J.B.	prof dr	hgl	0,25	0,17	0,08	0,25	AE	1
Fernandes da Mata, T.J.	dr	ud	-	-	0,21	0,50	AE	1
Heukelom, F.	dr	phd	0,60	0,60	0,08	-	AE	1
Jonge, J.P.R. de	dr	guest	-	0,00	0,00	-	AE	1
Jolink, A.	prof dr	hgl	-	0,00	0,00	0,10	AE	3
Kotan, M	drs	oz	-	0,70	0,70	-	AE	1
Kuiper, E.	dr	guest	-	-	0,00	-	AE	1
Kuiper, E.	dr	postdoc	1,00	0,58	-	-	AE	2
Maas, H.B.J.B.	dr	uhd	0,40	0,40	0,27	0,20	AE	1
Maas, H.B.J.B.	dr	uhd	-	-	0,20	0,40	AE	2
Morgan, M.S.	prof dr	hgl	0,05	0,05	0,05	0,05	AE	1
d’Onofrio, F.	msc	phd	-	-	0,30	0,60	AE	2
Reuten, G.A.	dr	uhd	0,50	0,50	0,50	0,17	AE	1
Schliesser, E.S.	dr	guest	-	0,00	0,00	0,00	AE	1
Svorencik, A.	msc	phd	-	-	0,30	0,60	AE	2
Went, R.	dr	guest	0,00	0,00	0,00	0,00	AE	1
Total 1st flow of funds			2,93	3,55	2,42	1,67		
Total 2nd flow of funds			1,00	0,58	0,80	1,60		
Total 3rd flow of funds			0,00	0,00	0,00	0,10		
Total 1st f.o.f. excl. Ph.D.'s			2,33	2,95	2,34	1,67		
Total all flows of funds			3,93	4,13	3,22	3,37		

8.2 PROGRAMME DESIGN

This research programme investigates the mutual connections in economics between theorizing, modelling, and policy application, in order to explain research strategies and methods of explanation in economics. In this investigation, the research group employs a methodological approach using a theory-historical perspective. This involves examining changing research strategies and methods of explanation as employed in the history of economics up to the present.

We investigate current economics as the product of past economics, and study past economics to understand the development of current economics. For both our study of current economics and past economics we focus on the research strategies and methods of explanation of economists. We particularly focus on current economics because of the special methodological issues involved in its strategies and methods of explanation (see below), and because of its rapid evolution and change in recent decades.

A central characteristic of recent economics is a renewed interest in the relation between economic behaviour and social structure, as reflected in a succession of new views and ideas about how economic behaviour and social structure are mutually influencing. These new currents in theory go hand in hand with new ideas about modelling, measurement, and investigative methods appropriate to economics. In line with the research group's earlier research into models as instruments that mediate between theory and data, we investigate how these new techniques and methods are used to further represent, measure, and intervene in the economy.

Changes in economic theorizing and modelling have been accompanied by new thinking about the scope and content of economic policy. This has expanded the range of norms and values at work in the applied and policy domains in economics, and also produced changes in thinking about the nature of political decision-making in regard to the economy and to economics as a science. The linkages between economic theorizing, modelling, and measurement to economic policy are an explicit concern in the programme.

As a meta-study of economics, our investigations should serve economic researchers by pointing out the implications and consequences of various research strategies and methods of explanation in different sub-fields of economics as they relate to the discipline of economics as a whole. In addition, we also aim to produce research that clarifies to the users of economic science in the public domain what current economics involves and how this applies to economic policy and political decision-making.

Theorizing, modeling and policy application

Keywords

- Research strategies and methods of explanation in economics
- Current economics as the product of past economics
- Economic behavior in relation to social structure
- Models as instruments mediating between theory and data
- Economic policy, norms, and values
- Methodological approach with a theory-historical perspective

8.3 PROGRAMME EVALUATION

2009 was another productive year for the History and Methodology of Economics Group with a high level of research publication, active participation in scholarly conferences, and teaching success. In addition, the Group has gained international recognition as the conference organizer for the 14th annual European History of Economics Society meetings scheduled for March 2010 at the Amsterdam School of Economics.

As in past years, the Group has greater involvement than any other group in its field as editors of the field's top journals. John Davis as editor of the *Journal of Economic Methodology* (Routledge), Marcel Boumans as editor of the *Journal of the History of Economic Thought* (Cambridge University Press) and associate editor of *Journal of Economic Methodology*, and Albert Jolink is editor of *Economisch Statistische Berichten*. Davis is also the editor of the Routledge books series, *Advances in Social Economics*. In addition, Boumans, Davis, Harro Maas and Mary Morgan are on the editorial boards of various other journals.

T. Mata was the winner of the faculty's best teacher award, the Van der Schroeffer award.

In 2009 Boumans and Davis' *Economic Methodology: Understanding Economics as a Science* was completed, and is appearing in 2010 with Palgrave. This text represents years of teaching the Economic Methodology

course at Amsterdam by most members of the Group. Students in fall 2009 were taught from the pre-publication version of the book.

Maas organized a “Brainstorming workshop ‘Observation in Economics and Natural Sciences’” in March, Mata was an organizer of the 4th annual History of Recent Economics Conference in June, and Boumans was an organizer of the ESF Workshop “Explanation, Prediction, and Confirmation in the Social Sciences: Realm and Limits” in October.

The Group also held its annual research day with its December Amsterdam Workshop in coordination with Cachan, France École normale supérieure History of Social Science Group, which in turn held a Cachan Workshop in June in coordination with the Group.

Two PhD students were promoted in 2009: Floris Heukelom (29 May), *Kahneman and Tversky and the Making of Behavioral Economics* (promoters Davis and Maas) and Jan de Jonge (5 June), *Rational and Moral Action* (promotor Davis). Two more students are moving toward promotion, Ricardo Crespo and Maarten Biermans, and four more students are making good progress as PhD researchers, Andrej Svorencik, Federico D’Onofrio, Dirk Damsma, and Andreas Masaoutis. Svorencik and D’Onofrio are working under Harro Maas’ “Observation in Economics, Historically Considered” NWO VIDI grant.

8.4 RESOURCES AND FUNDING

H. Maas earned a NWO Vidi research project: Observations in economics, historically considered, budget Euro 405.600, 2008-2012.

8.5 OUTPUT

Key publications

Boumans, M. (ed.) (2007). *Measurement in Economics: A Handbook*. Elsevier.

Davis, J.B. (2009). Competing conceptions of the individual in recent economics. In Kincaid, H. and Ross, D. (eds.), *The Oxford Handbook of the Philosophy of Economic Science* (pp. 223-244). Oxford University Press.

Maas, H. (2009). Disciplining boundaries: Lionel Robbins, Max Weber, and the borderlands of economics, history, and psychology. *Journal of the History of Economic Thought*, 31 (4), 500-517.

Mata, T. (2009). Migrations and Boundary Work: Harvard, Radical Economists and the Committee on Political Discrimination. *Science in Context*, 22 (1): 115-143.

Forthcoming

Boumans, M. (2010). The problem of passive observation. *History of Political Economy* 42.1: 75-110.

Boumans, M. and Davis, J.B. (2010). *Economic Methodology. Understanding Economics as a Science*. Palgrave Macmillan.

Davis, J.B. (2010). *The Individual and Identity in Economics*. Cambridge University Press.

Davis, J.B. (2010). Neuroeconomics: Constructing Identity. *Journal of Economic Behavior & Organization*.

Maas, H. (2010) Sorting Things Out: The Economist as an Armchair Observer. Forthcoming in Daston, L. and Lunbeck, E. (eds), *Histories of Scientific Observation*. University of Chicago Press.

Mata, T. (2010). The Enemy Within: Academic Freedom in 1960s and 1970s American Social Sciences. *History of Political Economy*.

Mata, T. (2010). Os economistas como fazedores de instrumentos. Forthcoming in José Maria Castro Caldas and Vitor Neves (eds.), *Economia Sem Muros*. Coimbra: Almedina.

Morgan, M.S. and Howlett, P. (eds) (2010). *How Well Do Facts Travel?* Cambridge University Press.

Schliesser, E. (2010). Reading Adam Smith after Darwin: On the Evolution of Propensities, Institutions, and Sentiment. *Journal of Economics and Behavior*.

Schliesser, E. (2010). Milton Friedman, Positive Economics, and the Chilean ‘Chicago Boys’. In Emmett, R. (ed.), *The Companion to Chicago Economics*. Elgar.

- Schliesser, E. (2010). Sophie de Grouchy, Adam Smith, and the Politics of Sympathy. In O’Neil, E. and Lascano, M. (eds), *Feminism and the History of Philosophy: The Recovery and Evaluation of Women’s Philosophical Thought*. Springer. [B]
 Went, R.C.P.M. (2010). Internationale publieke goederen: karakteristieken en typologie, Webdocument op www.wrr.nl.

Publications in numbers

<i>History & Methodology of Economics</i>				2009
1) Academic publications	a) in refereed journals	A	2	
		B	2	12
		C	8	
	b) in other journals			4
	c) book chapters	A	2	
		B	5	12
		C	1	
		Other	4	
Total				28
2) Monographs		A	-	
		B	-	0
		C	-	
3) Ph.D. theses				3
4) Professional publications				3
5) Popular publications				15
6) Working papers				3
Total				52

Research output

Dissertations

- Heukelom, F. (2009, 29 May). *Kahneman and Tversky and the Making of Behavioral Economics*. Universiteit van Amsterdam. [promotoren prof. J.B. Davis and dr. H.B.J.B. Maas] [cat.I]
 Jonge, J.P.R de (2009, 5 June) *Rational and Moral Action*. Universiteit van Amsterdam. [promotor prof. J.B. Davis] [cat. II]
 Velkar, A. (2009, 28 February) *Markets, Standards and Transactions: Measurements in Nineteenth-Century British Economy*. London School of Economics [promoter prof. M.S. Morgan] [cat. IV]

Academic publications (excluding publications in/of books) – refereed

A

- Boumans, M. (2009). Dynamizing stability. *History of Political Economy*, 41, (supplement 1), 127-146.[A]
 Mata, T. and Louçã, F. (2009). The Solow Residual as a Black Box: Attempts at integrating Business Cycle and Growth Theories. *History of Political Economy*, 41, (Supplement 1), 334-355. [A]

B

- Jolink, A. (2009). Jan Tinbergen's statistical contribution to economic policy. *Statistica Neerlandica*, 63, (4), 385 – 399. [B]
 Maas, H. (2009). Disciplining boundaries: Lionel Robbins, Max Weber, and the borderlands of economics, history, and psychology. *Journal of the History of Economic Thought*, 31, (4), 500-517. [B]

Other

- Davis, J.B. (2009). The capabilities conception of the individual. *Review of Social Economy*, 67, (4), 413-429.
 Davis, J.B. (2009). Identity and individual economic agents: A narrative approach. *Review of Social Economy*, 67, (1), 71-94.
 Davis, J.B. and Marin, S. (2009). Identity and democracy: Linking individual and social reasoning. *Development*, 52 (4), 500-508.

- Davis, J.B. and Emami, Z. (2009). Democracy, education, and economics. *International Journal of Pluralism and Economics Education*, May, 37-45.
- Davis, J.B. (2009). Justifying human rights: Economics and the individual. *Forum for Social Economics*, (1), 38, 78-89.
- Dolfsma, W., Eijk, R. and Jolink, A. (2009). On a source of social capital: Gift exchange. *Journal of Business Ethics*, 89, (3), 315-329.
- Mata, T. (2009). Migrations and Boundary Work: Harvard, Radical Economists and the Committee on Political Discrimination. *Science in Context*, 22, (1), 115-143.
- Schliesser, E. (2009). Prophecy, eclipses and whole-sale markets in Babylon: a case study on why data driven economic history requires history of economics, a philosopher's reflection. *Jarhrbuch für Wirtschaftsgeschichte*, 2009, (2).

Academic publications (in/of books) – refereed

A

- Davis, J.B. (2009). Competing conceptions of the individual in recent economics. In Kincaid, H. and Ross, D. (eds.), *The Oxford Handbook of the Philosophy of Economic Science* (pp. 223-244). Oxford University Press. [A]
- Reuten, G. (2009). Marx's rate of profit transformation: methodological, theoretical and philological obstacles – an appraisal based on the text of *Capital III* and manuscripts of 1864-65, 1875 and 1878. In Bellofiore, R. & Fineschi, R. (eds), *Re-reading Marx – New Perspectives after the Critical Edition* (pp. 211-230). London/New York: Palgrave–Macmillan. [A]

B

- Davis, J.B. (2009). Identity. In Peil, J. and Staveren, I. van (eds.), *Handbook of Economics and Ethics* (pp. 246-251). Cheltenham: Edward Elgar. [B]
- Davis, J.B. (2009). Individualism. In Peil, J. and Staveren, I. van (eds.), *Handbook of Economics and Ethics* (pp. 261-266). Cheltenham: Edward Elgar. [B]
- Davis, J.B. (2009). Two relational conceptions of individuals: Teams and neuroeconomics. In *Research in the History of Economic Thought and Methodology*, vol. 27 (pp. 1-21). Insight Emerald: Bingley. [B]
- Jonge, J.P.R de (2009). A proper choice. In: Davis, J.B. (ed.), *Global Social Economy: Development, Work and Policy*. London: Routledge. [B].
- Schliesser, E. (2009). Sophie de Grouchy, Adam Smith, and the Politics of Sympathy. In O'Neil, E. and Lascano, M. (eds), *Feminism and the History of Philosophy: The Recovery and Evaluation of Women's Philosophical Thought*. Springer. [B]

Other

- Boumans, M. (2009). Understanding in economics: Gray-box models. In Regt, H.W. de, Leonelli, S. and Eigner, K. (eds), *Scientific Understanding: Philosophical Perspectives* (pp. 210-229). Pittsburgh: University of Pittsburgh Press. [C]

Academic publications (excluding publications in/of books) – non-refereed

- Boumans, M. (2009). Review of: N.E. Aydinonat, *The Invisible Hand in Economics. How Economists Explain Unintended Social Consequences*. *History of Economic Ideas* 17, 141-144.
- Davis, J.B. (2009). Peter Danner 1921-2008. *Review of Social Economy*, 67 (2), 263.
- Davis, J.B. Review: *A Cambridge Companion to Keynes*, edited by Roger Backhouse and Bradley Bateman. *History of Political Economy*, 41, 209-211.
- Maas, H. (2009). Review essay of Margaret Schabas: *The Natural Origins of Economics* (University of Chicago Press, 2005), *Storia del Pensiero Economico* (Winter).

Academic publications (in/of books) – non-refereed

- Davis, J.B. (2009). Identity and individual economic agents: A narrative approach. In White, M. and

- Staveren, I. van (eds.), *Ethics and Economics: New Perspectives*. London: Routledge.
- Davis, J.B. (2009). Global social economy: An introduction. In Davis, J.B. (ed.), *Global Social Economy: Development, Work and Policy* (pp. 1-10). Routledge.
- Davis, J.B. (2009). Kollektive Intentionalität, komplexes ökonomisches Verhalten und Bewerten. In Schmid, H.B. and Schweikard, D. (trans. and eds.), *Kollektive Intentionalität – Eine Debatte über die Grundlagen des Sozialen* (pp. 672-696). Frankfurt: Suhrkamp Verlag.
- Reuten, G. (2009). Il difficile lavoro di una teoria del valore sociale: metafore e dialettica sistematica all'inizio del Capitale di Marx [translation of 1993 article, "The difficult labour of a theory of social value ..."]. In Bellofiore, R. and Fineschi, R. (eds.), *Marx in questione: Il dibattito "aperto" dell'International Symposium on Marxian Theory* (pp. 25-58). Napoli: La città del sole.

Academic publications (working- and discussion papers)

- Boumans, M. (2009). *Observations of an Expert. History of Observation in Economics Working Paper Series No. 4*, University of Amsterdam.
- Maas, H. (2009). *Sorting Things Out: The Economist as an Armchair Observer. History of Observation in Economics Working Paper Series No. 3*, University of Amsterdam.
- Morgan, M.S. (2009). *Seeking Parts, Looking for Wholes. History of Observation in Economics Working Paper Series No. 1*, University of Amsterdam.

Professional publications

- Went, R.C.P.M. (2009). Mondialisering en vakbondsantwoorden op international vlak. Het nieuwe kapitalisme. In Devos, C. Vandaele, K. Faniel, J. and Gobin, C. (eds), *Solidariteit in beweging: Perspectieven voor de vakbond van morgen*. Brussel: ASP.
- Went, R.C.P.M. (2009). Wereldeconomie kan niet zonder eigen veiligheidsraad, *Christen Democratische Verkenningen*: 248-256.
- Went, R.C.P.M. (2009). De wereld kan niet langer zonder Economische Veiligheidsraad?, *Fiducie*, 17, (1), 24-27.

Popular publications

- Jolink, A. (2009). Optimaal, *ESB*, 94 (4551), 3.
- Jolink, A. (2009). Geen krimp, *ESB*, 94 (4554), 99.
- Jolink, A. (2009). Crisis, *ESB*, 94 (4557), 195.
- Jolink, A. (2009). Erasmus laat zich (feli)citeren, *ESB*, 94 (4558), 244-245.
- Jolink, A. (2009). Maatwerk, *ESB*, 94 (4559), 259.
- Jolink, A. (2009). Numerus fixus, *ESB*, 94 (4561), 323.
- Jolink, A. (2009). Nageslacht, *ESB*, 94 (4563), 387.
- Jolink, A. (2009). Destructie, *ESB*, 94 (4565), 451.
- Jolink, A. (2009). Royaal, *ESB*, 94 (4567), 515.
- Jolink, A. (2009). Exit, *ESB*, 94 (4569), 579.
- Jolink, A. (2009). Prijs, *ESB*, 94 (4570), 611.
- Jolink, A. (2009). Kennisafval, *ESB*, 94 (4572), 675.
- Jolink, A. (2009). Waarheid, *ESB*, 94 (4574), 739.
- Mata, T. (2009, 9 January). Economistas em Alta em Tempo de Crise. In *Publico*, Suplemento Economia, p. 9.
- Reuten, G. (2009, 31 maart). Energiebesparing op commando. *Het Financieele Dagblad (Opinie)*.

Contributions to academic conferences, workshops and seminars

- Boumans, M. (2009, 4 January). Looking under the hood: Leontief versus Statistical Econometricians. HES session, Allied Social Sciences Associations meetings. San Francisco, USA.
- Boumans, M. (2009, 13 March). Observation of an expert. Workshop 'Observation in Economics and Natural Sciences, Historically Considered, 12-13 March. University of Amsterdam, NL. Invited paper presentation.

- Boumans, M. (2009, 12 June). Logical positivism and Leontief. 3rd Annual Conference in the History of Recent Economics (Hisreco), 11-13 June. University of Antwerp, Belgium.
- Boumans, M. (2009, 19-22 June). Twentieth century debates on positive economics. Summer Institute for the History of Economic Thought. University of Richmond, USA. Invited lecture.
- Boumans, M. (2009, 27 June). Observations of an expert. History of Economics Society annual meeting, 26-29 June. Denver, USA.
- Boumans, M. (2009, 18 September). Decision making outside the laboratory. 4th Workshop on Combining Probability and Logic (Prolog 2009), 17-19 September. University of Groningen, NL.
- Boumans, M. (2009, 23 October). Modeling strategies for measuring phenomena in- and outside the laboratory. 2nd Conference of the European Philosophy of Science Association (EPSA09), 21-24 October. Vrije Universiteit Amsterdam, NL.
- Boumans, M. (2009, 27 October). Evidence outside the laboratory. PSE-ESF Workshop 'Explanation, Prediction, and Confirmation in the Social Sciences: Realm and Limits, October 26-27. University of Amsterdam. Invited paper presentation.
- Davis, J.B. (2009, December). The Individual and identity. European Society for the History of Economic Thought Winter Workshop. Pisa, Italy. Invited paper presentation.
- Davis, J.B. (2009, June). Evolution and the individual: Identity through change. History of Economic Society annual meeting, 26-29 June, Denver, USA.
- Davis, J.B. (2009, April). Evolution and the individual: Identity through change. European Society for the History of Economic Thought annual meeting. Thessaloniki, Greece.
- Davis, J.B. (2009, January 4). Presidential Address, "The Capabilities Conception of the Individual." Association for Social Economics, San Francisco.
- Jolink, A. (2008, September) The adaptation of governance structures to green innovations (with Eva Niesten), European network for economics of the firm, Paris.
- Maas, H. (2009, 7 December). Can We Trust Them? The CPB, Academia, and the Public Sphere, FEB Faculty Seminar.
- Maas, H. (2009, 12 November). Invited commentator on Prof. Donald MacKenzie "The Credit Crisis, A problem for the sociology of science, WTMC conference 12-13 November, Amsterdam.
- Maas, H. (2009, 27 June). Taking Notes, Plotting Numbers. History of Economics Society annual meeting, 26-29 June. Denver, USA.
- Maas, H. (2009, 27 June). The Historian as a Curator. History of Economics Society annual meeting, 26-29 June. Denver, USA.
- Maas, H. (2009, 19 June). Taking Notes, Plotting Numbers. Summer Institute for the History of Economic Thought. University of Richmond, USA. Invited lecture,
- Mata, T. (2009). Metaphors of Crisis, American media 2007-08. Meeting of the Iberian Association of Historians of Economic Thought. University of Coimbra, Portugal.
- Mata, T. (2009). Metaphors of Crisis, American media 2007-08. Nijmegen School of Management, Radboud University Nijmegen, Netherlands.
- Mata, T. (2009). Imagination and narratives in the media on the financial crisis of late 2008. Faculty of Economics, University of Antwerp, Belgium.
- Mata, T. (2009). Imagination and narratives in the media on the financial crisis of late 2008. Virtual Knowledge Studio, Rotterdam, Netherlands.
- Mata, T. (2009). The Evil Economics Does in the Public Imagination, with special emphasis on the history of late 20th century economics. History of Economics Society Annual Meeting, University of Colorado - Denver, USA.
- Mata, T. (2009). Why were they fired: Academic Freedom and Discipline in 1970s American Social Sciences. *History of Political Economy* Annual Conference, "The Unsocial Social Science", Duke University, USA. Invited Lecture.
- Mata, T. (2009). The evil Economics does in the public imagination. Workshop on History of Economics as Culture, Paris, France.
- Mata, T. (2009). Not biography: Journalism, Economics and Storytelling Communities. Allied Social Science Associations Annual Meeting, San Francisco, USA.
- Morgan, M.S. (2009, December 18). Business Models: From Taxonomies to Manipulated Instruments (with CharlesBaden-Fuller). Annual Workshop on Strategy, Cass Business School, City University, London.

- Morgan, M.S. (2009, December 15). Re-Thinking Case Studies Across the Social Sciences, British Academy Wolfson Chair Lecture, British Academy, London.
- Morgan, M.S. (2009, December 11). The Inferential Scope of Facts. Amsterdam-Cachan History of Economics Fall Workshop, University of Amsterdam.
- Morgan, M.S. (2009 October 22). The Inferential Scope of Facts. 2nd Biennial Conference of the European Philosophy of Science Association, Amsterdam. **Keynote speaker**
- Morgan, M.S. (2009, June 26-29). Seeking Parts, Looking for Wholes, Annual Meeting of the History of Economics Society, Denver, Colorado.
- Morgan, M.S. (2009, June 17-21). Facts in Practice - The Lives of Facts. 2nd Biennial Conference of the Society for the Philosophy of Science in Practice, Minneapolis. **Keynote speaker**
- Morgan, M.S. (2009, April 3). The Creation of the Newlyn-Phillips Machine. Joint Workshop of Departments of Economics and of History of Science, University of Leeds. Invited speaker
- Morgan, M.S. (2009, March 12). Brainstorm session: “What is different about social science observation?” Workshop ‘Observation in Economics and Natural Sciences, Historically Considered, 12-13 March. University of Amsterdam, NL. Invited discussant.
- Morgan, M.S. (2009, March 7). Workshop: The Doing of Science. Max Planck Institute for History of Science, Berlin. Invited discussant.
- Morgan, M.S. (2009, January 31). Creative Destruction. Workshop: The Emergence of New Sciences, Max Planck Institute for History of Science, Berlin. Invited speaker
- Schliesser, E. (2009, November). Economists and Pinochet: The Role of Leadership and Mentorship. International Leadership Association, Prague.
- Schliesser, E. (2009, June). The Suprising Weberian Roots of Chicago Economics. Summer Institute for the History of Economic Thought. University of Richmond, USA.
- Schliesser, E. (2009, October). The Suprising Weberian Roots of Chicago Economics. European Science Foundation, Utrecht.
- Schliesser, E. (2009, March). Adam Smith and the Emotions. University of Richmond. Invited paper.
- Schliesser, E. (2009, January). Plato’s Laws and Adam Smith. Adam Smith Society Conference, Oxford.
- Schliesser, E. (2009, January) Methodology and Monopoly at Chicago: Nutter and Stigler. HES session, Allied Social Sciences Associations meetings. San Francisco, USA.
- Schliesser, E. (2009, March) Methodology and Monopoly at Chicago: Nutter and Stigler. Duke University, Dept. of economics.
- Svorenck, A. (2009, 28 June). Coase Theorem in the Lab. History of Economics Society Annual Meeting, University of Colorado - Denver, USA.

Organisational contributions to conferences, workshops and seminars

- Boumans, M. (2009, 4 January). HES session ‘The Real Debate of the 1950’s: Marshallian versus General Equilibrium Approaches, Allied Social Sciences Associations meetings. San Francisco, USA.
- Boumans, M. (2009, 18-20 June). Member programme committee. Second Biennial Conference Society for Philosophy of Science in Practice. University of Minnesota, USA.
- Boumans, M. (2009, 26-27 October). Member organizing committee. PSE-ESF Workshop ‘Explanation, Prediction, and Confirmation in the Social Sciences: Realm and Limits. University of Amsterdam, NL.
- Davis, J.B. (2009). Member scientific and local organizing committee, 14th annual meeting European Society for the History of Economic Thought, Amsterdam.
- Davis, J.B. (2009, 11 December). Amsterdam-Cachan Fall Workshop.
- Jolink, A. (2009, November). Organisation of the 2009 annual conference of the European Association for Evolutionary Political Economy, Amsterdam.
- Maas, H. (2009, 11 December). Amsterdam-Cachan Fall Workshop.
- Maas, H. (2009, 12-13 March). Brainstorming workshop “Observation in Economics and Natural Sciences”, Hortus Botanicus Amsterdam.
- Maas, H.B.J.B. (2009). Member scientific and local organizing committee, 14th annual meeting European Society for the History of Economic Thought, Amsterdam.
- Mata, T. (2009). Member of the organizing committee of the Fourth Annual Conference on the History of Recent Economics, HISRECO.

Mata, T. (2009). Member scientific and local organizing committee, 14th annual meeting European Society for the History of Economic Thought, Amsterdam.

Participation in academic networks & fellowships

- Boumans, M. (2002-). Fellow Tinbergen Instituut
Boumans, M. (2002-). Fellow NAKK.
Boumans, M. (2008-). Member of team Philosophy of the Cultural and Social Sciences of The Philosophy of Science in a European Perspective, an ESF Research Networking Programme.
Boumans, M. (2006-). Member organisation committee, Society for Philosophy of Science in Practice.
Boumans, M. (2004-). Board member, membership director, INEM (International Network for Economic Method)
Boumans, M. (2004-). Board member, Dutch-Flemish Network for Philosophy of Science and Technology.
Boumans, M. (1995-). Research associate, LSE Centre for Philosophy of the Natural and Social Science.
Davis, J.B. (2002-). Fellow Tinbergen Instituut.
Davis, J.B. (2009). Member of Executive Committee of the European Society for the History of Economic Thought.
Jolink, A. (1998-2010). Council member/Treasurer of the European Association for Evolutionary Political Economy (EAEPE).
Jolink, A. (2005-2010) Chairman/Associate Editor of the *Journal of Institutional Economics* Foundation.
Jolink, A. (2000-2010) Trustee of the *Foundation for European Economic Development*.
Maas, H. (2006-). Core participant research project "The History of Scientific Observation", *Max Planck Institut für Wissenschaftsgeschichte*, Section II (Dir. Prof. Lorraine Daston), Berlin.
Morgan, M.S. (2009 June). Visiting Fellow, Minnesota Center for Philosophy of Science, University of Minnesota.
Morgan, M.S. (2009). Fellow of British Academy.
Morgan, M.S. (2009). Overseas Fellow of the KNAW.
Reuten, G. (2009). Fellow NAKK.
Reuten, G. (2009). Nominated member of ISMT (International Symposium on Marxian Theory).

Editor or member of editorial board

- Boumans, M. (2008-). Co-editor *Journal of the History of Economic Thought*.
Boumans, M. (2008-). Member scientific committee *Revue de Philosophie Économique*.
Boumans, M. (2007-). Member advisory board *Erasmus Journal for Philosophy and Economics*.
Boumans, M. (2005-). Associate editor *The Journal of Economic Methodology*.
Davis, J.B. (2007-). Member advisory board *Erasmus Journal for Philosophy and Economics*.
Davis, J.B. (2005-). Co-editor *The Journal of Economic Methodology*.
Davis, J.B. (ed.) (2009). *Global Social Economy: Development, Work and Policy*. London: Routledge. [B]
Jolink, A. (2005-). Editor-in-Chief *Economisch Statistische Berichten*.
Maas, H. (2008-). Member editorial board *Journal of the History of Economic Thought*.
Maas, H. (2008-). Member editorial board *History of Political Economy*.
Maas, H. (2007-). Member editorial board *The Journal of Economic Methodology*.
Morgan, M.S. (2009-). Member editorial board *Philosophy of Science*.
Morgan, M.S. (1997-). Member editorial board *Journal of the History of Economic Thought*.
Morgan, M.S. (1996-). Member editorial board *Journal of Economic Methodology*.
Morgan, M.S. (1988-). Member editorial board *History of Political Economy*.
Reuten, Geert (2009). Corresponding editor *Capital & Class*.
Reuten, Geert (2009). Editorial advisory board *Historical Materialism*.

Referee activities

- Boumans, M. (2009). Referee for Cambridge University Press, *Erasmus Journal of Philosophy and Economics*, *Erkenntnis*, *History of Political Economy*, *Journal of the History of the Behavioral Sciences*, NWO, Palgrave Macmillan, Routledge/Taylor&Francis.
- Davis, J.B. (2009). Harvard University Press, *History of Economic Ideas*, Cambridge University Press, Stanford University Press, Oxford University Press, *Cambridge Journal of Economics*, *History of Economic Ideas*, *Journal of Economic Issues*.
- Maas, H. (2009). Referee for Canadian Research Council, *Centaurus*, *Economics and Philosophy*, *History of Economic Ideas*, *History of Political Economy*, *Journal of Economic Methodology*, *Journal of the History of Economic Theory*, *History of Psychology*, *Isis*, Routledge.
- Mata, T. (2009). Referee for *History of Political Economy*, *Journal of the History of Economic Thought*.
- Schliesser, E. (2009). Referee for *Journal History of Economic Thought*, *Journal of Scottish Philosophy*, *Erasmus Journal for Philosophy and Economics*, *Hume Studies*, *American Journal of Economics and Sociology*, *Journal Political Economy*, *Adam Smith Review*
- Svorenčik, A. (2009). Referee for *History of Political Economy*.
- Went, R.C.P.M. (2009), Referee for *Review of Political Economy*.

Membership of academic committees (including Ph.D. committees outside the FEB)

- Maas, H. (2009). External member promotion committee José M. Edwards, dept. of economics, behavioral sciences and law, Université Paris I-Panthéon-Sorbonne (directeur de recherche: Prof. Annie Cot).
- Mata, T. (2009). Member of the Joseph Spengler Book Prize Committee of the History of Economics Society.
- Morgan, M.S. (2008-). Member scientific board LichtenbergKolleg, Georg-August-Universität, Göttingen.
- Morgan, M.S. (2006-). Member British Academy, Economics and Economic History Section Committee.
- Morgan, M.S. (2008-). Member British Academy Publications Committee.

Research contributions in the media

- Jolink, A. (2010). Member of the economists panel of BNR Radio.

Grants, prizes and honours

- Davis, J.B. (2009). Notre Dame Science of Generosity, second wave, with Robert McMaster, University of Glasgow, and Irene van Staveren, Institute for Social Studies and Nijmegen University, “The Governance and Provision of Personal Care: Institutional Change in Three ‘Post-Industrial’ Cities,” \$76,700.
- Davis, J.B. (2009). Outstanding Academic Title, *Choice*, American Library Association, *Companion to Social Economics*, Cheltenham: Edward Elgar, 2008. [co-editor W. Dolfsma]
- Maas, H. (2008-2012). NWO Vidi research project: Observations in economics, historically considered. Budget Euro 405.600.
- Mata, T. (2009). FEB best teacher award, the Van der Schroeff award.
- Morgan, M.S. (2009-2012). British Academy Wolfson Research Professorship: “Re-Thinking Case Studies Across the Social Sciences” Grant.

Various activities

- Davis, J.B. (2009). Nominator Nobel Prize in Economics.
- Reuten, G. (2007-current). Senator in the Dutch Parliament for the Socialist Party (SP)
- Svorenčik, A. (2009 -). Member of Europeana User Testing Panel (www.europeana.eu).

CHAPTER 9: EXPERIMENTAL & POLITICAL ECONOMICS (CREED)

Programme Director Prof.dr. F.A.A.M. van Winden
Department: Economics
METIS-code: uva/fee/res/exp/prog
JEL-classification: D7, D8
Web-address: www.ase.uva.nl/creed
Starting date programme: 1991
VSNU-scores 2001-2007: Quality: 5, Productivity: 4.5, Relevance: 5, Viability: 4.5

9.1 MEMBERS OF THE RESEARCH GROUP AND RESEARCH IN FTES

<i>Name</i>	<i>Title</i>	<i>Function</i>	<i>Total 2006</i>	<i>Total 2007</i>	<i>Total 2008</i>	<i>Total 2009</i>	<i>Dept.</i>	<i>Funding</i>
Abbinck, K.	dr	uhd	0,46	0,50	0,50	0,33	AE	1
Boone, J.	prof dr	oz	0,42	0,42	0,42	0,28	AE	2
Broek, E.M.F. van den	drs	phd	0,60	0,60	0,40	-	AE	1
Broek, E.M.F. van den	drs	oz	-	-	0,00	-	AE	1
D'Exelle, B.	dr	guest	0,00	-	-	-	AE	3
Elliot Ash, T.		guest	-	-	-	0,00	AE	1
Fosgaard, T.	MSc	guest	-	-	-	0,00	AE	1
Garcia Gallego, J.A	dr	guest	-	-	0,00	0,00	AE	1
Gillet, J.	drs	phd	0,40	-	-	-	AE	1
Groot Ruiz, A.W.	msc	phd	-	0,50	0,60	0,60	AE	2
Haan, Th. de,	msc	phd	-	-	0,20	0,60	AE	1
Hopfensitz, A.	dr	phd	0,05	-	-	-	AE	1
Hu, A.	msc	phd	0,25	0,60	0,60	0,60	AE	2
Kantaroglu, G.		guest	-	-	-	0,00	AE	1
Kocher, M.G.	dr	oz	1,00	0,50	-	-	AE	3
Krawczyk, M.	dr	phd	0,60	0,60	0,60	0,10	AE	3
Kuilen, G. van der	dr	phd	0,30	-	-	-	AE	1
Le Lec, F.	dr	oz	-	0,75	0,25	-	AE	3
Linde, J.	drs	phd	-	-	0,18	0,60	AE	1
Michelucci, F.	dr	postdoc	-	1,00	1,00	0,17	AE	2
Offerman, T.J.S.	prof dr	hgl	0,80	0,40	-	-	AE	2
Offerman, T.J.S.	prof dr	hgl	-	0,25	0,50	0,50	AE	1
Onderstal, A.M.	dr	ud	0,42	0,42	0,42	0,28	AE	2
Onderstal, A.M.	dr	ud	-	-	-	0,07	AE	1
Pelloux, B.	msc	phd	-	0,20	0,60	0,40	AE	1
Schram, A.J.H.C.	prof dr	hgl	0,50	0,50	0,33	0,17	AE	1
Schimizu, K.	dr	guest	-	-	-	0,00	AE	1
Sommens, J.	prof dr	hgl	0,50	0,50	0,50	0,50	AE	1
Solaz Santos, H	dr	guest	-	-	0,00	-	AE	1
Strassmaier, C.	dr	guest	-	-	0,00	-	AE	1

<i>Name</i>	<i>Title</i>	<i>Function</i>	<i>Total 2006</i>	<i>Total 2007</i>	<i>Total 2008</i>	<i>Total 2009</i>	<i>Dept.</i>	<i>Funding</i>
Trautmann, S.T.	msc	guest	0,00	0,00	0,00	-	AE	1
Tyzler, M.	msc	phd	-	-	0,20	0,60	AE	1
Ule, A.	dr	oz	1,00	0,54	0,78	0,60	AE	2
Veldhuizen, R.R. van	msc	phd	-	-	-	0,20	AE	1
Veelen, C.M. van	dr	oz	0,80	0,67	-	-	AE	2
Veelen, C.M. van	dr	ud	-	0,17	0,50	0,50	AE	1
Veen, A. van der	drs	phd	0,10	0,60	0,60	0,60	AE	2
Vieider, F.M.	msc	phd	-	-	-	-	AE	1
Vieider, F.M.	msc	guest	0,00	0,00	0,00	-	AE	1
Wakker, P.P.	prof dr	hgl	-	-	-	-	AE	1
Wakker, P.P.	prof dr	guest	0,00	0,00	0,00	0,00	AE	2
Winden, F.A.A.M. van	prof dr	hgl	0,46	0,50	0,50	0,50	AE	1
Zeelenberg, M.	prof dr	guest	0,00	0,00	0,00	-	AE	1
Total 1st flow of funds			3,27	3,22	4,41	4,97		
Total 2nd flow of funds			3,79	5,15	4,42	3,13		
Total 3rd flow of funds			1,60	1,85	0,85	0,10		
Total 1st f.o.f. excl. Ph.D.'s			1,92	2,42	2,83	2,57		
Total 1st-3rd flow of funds			8,66	10,22	9,68	8,20		
Ph.D. students			2,30	3,10	3,98	4,30		

9.2 PROGRAMME DESIGN

Objective

Improving the understanding of the behavioural determinants and consequences of economic decision making by (a) focusing on political economic issues, (b) allowing for bounded rationality, and (c) using laboratory experimentation as research method.

Motivation

Political decision making plays an important role in economies. Governments, for example, are essential for the functioning of markets, may be called upon to correct for market failures, but also have their own dynamics. Positive welfare effects of policies cannot be taken for granted. It is, therefore, important to study political decision making and the way in which policies can be applied beneficially. These observations provide the motivation for the first project: “Economics of political decision making”, a long standing project at the FEB dating back to 1983. It is related to public choice and the more recent upsurge in political economics.

Economic models, also when concerned with political decision making, typically make strong assumptions about the rationality, sophistication, and selfishness of individual behaviour. Experimental and other empirical evidence suggests, however, that the predictive power of the standard ‘homo economicus’ model is often disappointing and depends on the institutional character of the decision making environment. There is a need for greater knowledge and a more satisfactory treatment of the bounds on rationality generated by the nature of cognition and emotion, and the influence of institutions. This motivates the second project: “Bounded rationality and institutions”, which fits into the emerging field of behavioural economics.

For the advancement of theory, empirical feedback is crucial. This may hold in particular for new research areas, when sorting out the most promising ways to go. Empirical analysis is seen as an important ingredient of this Programme. For many of the issues studied in the aforementioned two projects, however, adequate field data are hard to come by or even nonexistent. Laboratory experimentation is a helpful complementary research method, especially in these cases, for exploration or the testing of models focusing on fundamental behavioural aspects or mechanisms. This motivates the third project: “Experimental economics”, which is stimulated by, and provides feedback for, the other two projects.

Institutional embedding

The research of this Programme is carried out within the Center for Research in Experimental Economics and political Decision-making (CREED), a research institute of the FEB. CREED was established in 1991 by a PIONIER-grant from the Netherlands Organization for the Advancement of Scientific Research (NWO) for the development of experimental economics in the Netherlands. An important facility is the CREED-laboratory for experimental economics, one of the few dedicated computer laboratories in Europe. Its focus on political decision making and experimental economics distinguishes CREED internationally.

Projects

I Economics of political decision making

This project is concerned with the demand for and the endogenous supply of government policies, the ways in which coordination takes place through the political decision-making process, and the effects thereof on the economy. Major research topics are:

- Political participation and influence (voting, activity and influence of interest groups);
- Interaction between the public sector and the private sector (e.g. the development of social capital and its importance for the provision of public goods);
- Political economy of public and private institutions (e.g. issues of fiscal federalism).

II Bounded rationality and institutions

In this project fundamental aspects of individual decision making, with economic relevance, are investigated. More particularly, attention is focused on the impact of cognitive limitations and emotions. In addition, responses to the complexity and institutional characteristics of the decision environment are studied. Among the topics investigated are:

- Group formation in complex environments (e.g. development of political preferences through social interaction, development of interest groups);
- Economic significance and modelling of emotions (e.g. anger, anxiety, happiness);
- Performance of various auction formats;
- Irrationalities in risk attitudes, and efficiency gains by avoiding or reckoning with these.

III Experimental economics

The main purpose of laboratory experiments in economic research is to create a (political) economic process in a laboratory environment which allows for sufficient control and accurate measurement. Experiments are used for three purposes: (a) the testing of behavioural assumptions and predictions of existing (competing) theories; (b) the searching for facts that are instrumental in the construction of descriptive and explanatory theories; and (c) the evaluation of (new) institutions to assist policy makers. Research in this project is particularly stimulated by, and provides feedback for, the aforementioned two projects. Major lines of research are:

- Voting and electoral competition (behaviour of voters and political candidates/parties);
- Lobbying and political pressure (ways and means, and determinants of effectiveness);
- Emotions and economic behaviour (impact, and modelling);
- Markets and institutions (functioning of markets and, the design of, institutions);
- Evolution of cooperation (development of cooperative behaviour over time);
- Biases in risk attitudes.

9.3 PROGRAMME EVALUATION

An important event this year was the evaluation of CREED's research program by the international research review committee for Economics and Business Sciences in the Netherlands (QANU, November 2009). As with the previous visitation committee, covering the period 1996-2000, the quality of our program got the highest available score (5) for Quality. Only 12 other research programs in the Netherlands achieved this, out of a total of 51 programs that were evaluated. Moreover, for the four categories distinguished (Quality, Productivity, Relevance, and Viability) 19 points in total were obtained, only matched by 7 other Dutch programs (and in fact totaling 2 points more than the total score obtained with the previous research assessment).

This year also the university-wide research priority program (Zwaartepunt) Cognition started, in which five faculties participate, including the FEB. The program runs under the umbrella of the Cognitive Science Center Amsterdam (CSCA). CREED is involved in both, in terms of management and research (and some teaching). In the meantime, a research proposal - joint with researchers from the psychology department (FMG) and the Amsterdam Medical Center (AMC) - has been submitted for funding and was recently approved. The aim of this project is to understand the neurocognitive mechanisms and neurocomputational bases of decision-making (in particular impulsive decisions and actions, and decisions in a noisy environment), and how these mechanisms are subject to individual differences and to contextual modulations. This project fits and further strengthens CREED's research on bounded rationality.

Several research highlights can be mentioned. The first Amsterdam Symposium on Behavioral and Experimental Economics (ABEE) was organized within the framework of the faculty's Zwaartepunt Behavioral Economics. The workshop gave an excellent opportunity to present and discuss some of our research with a number of top researchers from abroad and to exchange ideas and information. It reminded some of the participants of the series of AWEE meetings that CREED organized in the 1990s, which facilitated the dissemination of experimental economics in Europe. In terms of research output, this year was quite successful. Compared to 2008, the number of A journal publications went up from 8 to 11, and the number of B journal publications from 4 to 9. One technical paper, published in the *Review of Economic Studies*, deals with the correction of so-called proper scoring rules for risk attitudes, to accommodate non-expected utility theory. Another highlight concerns a publication in *SCIENCE* on the important issue of indirect reciprocity and generosity towards strangers. Furthermore, two PhD-theses were successfully defended, one dealing with theoretical political economic issues regarding migration and fiscal federalism, while the other comprised experimental and theoretical work on decision making under risk focusing on issues of fairness and the role of emotions.

The composition of the research group saw some changes related to PhD and visiting researcher positions, and some internships (students from the Columbia Law School and the CSCA). Furthermore, Klaus Abbink left to become full professor of economics and director of CBESS at the University of East Anglia. We congratulate Klaus with this honorable promotion and thank him for his efforts while being affiliated with CREED!

9.4 RESOURCES AND FUNDING

The programme received again a modest amount of funding from the research institute RESAM, which was largely spent to cover (part of the) traveling costs to attend conferences. Additional means were obtained from external funding and the Tinbergen Institute (for PhD-students).

Substantial additional means came from the Dutch science foundation NWO and the Zwaartepunt Behavioral Economics. The latter in particular provide a more solid foundation for the payments of participants in experiments at the CREED laboratory, which form a major budget item. Furthermore, a major grant was obtained from the university-wide spearhead Cognition for the project "Decision-Making and Adaptive Control over Impulsive Actions" (based on a joint proposal with researchers from

FMG and AMC). Major funding was also obtained from SenterNovem to study in collaboration with the CPB micro-level investments in electricity supply.

The CREED laboratory is used by CREED members but also on a regular basis by other Faculty members, in particular from research groups in the Amsterdam School of Economics (e.g., SCHOLAR, ENCORE, and CENDEF) and the Amsterdam Business School. On occasion the facilities are used by researchers from other universities. Because the demand for the laboratory now exceeds the available capacity (leading to unacceptable waiting times for running experiments), CREED has recently proposed a reconstruction of the lab where the number of terminals would be increased and the parallel running of experiments would be enabled. At this stage it is still not perfectly clear yet when the new facilities will be available. In any case, this should take place well before the foreseen renovation of the B-Building (where the present lab is) takes place, in order not to disrupt and uphold projects that CREED is committed to.

9.5 OUTPUT

Key publications

Any publication over the last five years in journals classified as “AA” by the Tinbergen Institute will be automatically mentioned here. These are: the *American Economic Review*, *Econometrica*, *Journal of Political Economy*, *Quarterly Journal of Economics*, and the *Review of Economic Studies*. In addition, at most one (more) publication considered to be key by the researchers themselves will be listed.

Abbink, K., Brandts, J., Herrmann, B. & Orzen, H. (2009). Inter-Group Conflict and Intra-Group Punishment in an Experimental Contest Game. Forthcoming in *American Economic Review*.

Offerman, T.J.S., Sonnemans, J.H., Kuilen, G. van de, & Wakker, P.P. (2009). A Truth-Serum for Non-Bayesians: Correcting Proper Scoring Rules for Risk Attitudes. *Review of Economic Studies* 76, 1461-1489 [A].

Ule, A., Schram, A.J.H.C., Riedl, A. & Cason, T. (2009). Indirect Punishment and Generosity Towards Strangers. *Science*, 326, 1701-1703 [A].

Brandts, J., Riedl, A. & Winden, F.A.A.M. van (2009). Competitive Rivalry, Social Disposition, and Subjective Well-being: An Experiment. *Journal of Public Economics*, 93, 1158-1167 [A].

Veelen, M. van & Weide, R. van der (2008). A note on different approaches to index number theory, *American Economic Review* 98, 1722-1730 [A].

Boone, J., Fredriksson, P., Holmlund, B. & Ours, J. van (2007). Optimal unemployment insurance with monitoring and sanctions. *Economic Journal* 117, 399-421 [A].

Maximiano, S., Sloof, R. & Sonnemans, J. (2007). Gift exchange in a multi-worker firm. *Economic Journal* 117, 1025-1050 [A].

Großer, J. & Schram, A.J.H.C. (2006). Neighborhood Information Exchange And Voter Participation: An Experimental Study. *American Political Science Review*, 100, 235-248 [A].

Offerman, T.J.S., & Potters, J. (2006). Does Auctioning of Entry Licenses Induce Collusion? An Experimental Study. *Review of Economic Studies*, 73, 769-791 [A].

Abbink, K., Irlenbusch, B., Pezanis-Christou, P., Rockenbach, B., Sadrieh, A. & Selten, R. (2005). An Experimental Test of Design Alternatives for the British 3G/UMTS Auction. *European Economic Review* 49, 505-530 [A].

Goeree, J.K., Maasland, E., Onderstal, S., & Turner, J. (2005). “How (Not) to Raise Money,” *Journal of Political Economy* 113, 897-918 [A].

Forthcoming

Abbink, K., Moller, L.C., & O'Hara, S. (2009). Sources of Mistrust: An Experimental Case Study of a Central Asian Water Conflict. *Environmental and Resource Economics*.

Abbink, K. & Sadrieh, A. (2009). The Pleasure of Being Nasty. Forthcoming in *Economics Letters*.

- Abbink, K., Brandts, J., Herrmann, B. & Orzen, H. (2009). Inter-Group Conflict and Intra-Group Punishment in an Experimental Contest Game. Forthcoming in *American Economic Review*.
- Bosman, R. & Winden, F.A.A.M. van (2009). Global Risk, Investment, and Emotions. Forthcoming in *Economica*.
- Großer, J., Schram, A.J.H.C. (2009). Public Opinion Polls, Voter Turnout and Welfare: An Experimental Study. Forthcoming in the *American Journal of Political Science*.
- Hu, A., Offerman, T.J.S. & Onderstal, S. (2009). Fighting Collusion in Auctions: An Experimental Investigation. Forthcoming in *International Journal of Industrial Organization*.
- Krawczyk, M.W. (2009). A model of procedural and distributive fairness. Forthcoming in *Theory and Decision*.
- Krawczyk, M.W. (2009). A glimpse through the veil of ignorance: equality of opportunity and support for redistribution. Forthcoming in *Journal of Public Economics*.
- van Veelen, M. (2009). Group selection, kin selection, altruism and cooperation: when inclusive fitness is right and when it can be wrong. Forthcoming in *Journal of Theoretical Biology*.

Publications in numbers

<i>Experimental & Political Economics</i>				2009
1) Academic publications	a) in refereed journals	A	11	20
		B	8	
		C	1	
	b) in other journals			1
		c) book chapters	A	2
		B	2	
		C	-	
	d) proceedings	Other		1
		Total		
	2) Monographs		A	-
		B	-	
		C	-	
3) Ph.D. theses				2
4) Professional publications				1
5) Popular publications				-
6) Working papers				27
Total				56

Dissertations

- Krawczyk, M.W. (2009, 28 October). *Experiments in Decision-Making under Risk*. Universiteit van Amsterdam [promoter prof. dr. F.A.A.M. van Winden] [cat. I]
- Mazza, I.A. (2009, 16 January). *Essays on Endogenous Economic Policy*. Universiteit van Amsterdam [promoter prof. dr. F.A.A.M. van Winden] [cat. I]

Academic publications (excluding publications in/of books) – refereed

A

- Boone, J., & Goeree, J.K. (2009). Optimal privatisation using qualifying auctions. *Economic Journal*, Vol. 119, (524), 277-297 [A].
- Boone, J., Sadrieh, A. & Ours, J.C. van (2009). Experiments on unemployment benefit sanctions and job search behavior. *European Economic Review*, 53, (8), 937- 951 [A].
- Brandts J., Riedl, A., Winden, F.A.A.M. van (2009). Competitive Rivalry, Social Disposition, and Subjective Well-Being: An Experiment. *Journal of Public Economics*, 93, (11-12), 1158-1167 [A].
- Gillet, J., Schram, A.J.H.C., & Sonnemans, J.H. (2009). The Tragedy of the Commons Revisited: The Importance of Group Decision-Making. *Journal of Public Economics* 93, (5-6), 785-797 [A].
- Goeree, J.K., Riedl, A., & Ule, A. (2009). In Search of Stars: Network Formation among Heterogeneous Agents. *Games and Economic Behavior*, 67, (2), 445-466 [A].

- Heemeijer, P., Hommes, C., Sonnemans, J.H., & Tuinstra, J. (2009). Price Stability and Volatility in Markets with Positive and Negative Expectations Feedback: An Experimental Investigation. *Journal of Economic Dynamics and Control* 33, (5), 1052-1072 [A].
- Offerman, T.J.S. & Schotter, A. (2009). Imitation and Luck: An Experimental Study on Social Sampling. *Games and Economic Behavior*, 65, (2), 461-502 [A].
- Offerman, T.J.S., Sonnemans, J.H., Kuilen, G. van de, & Wakker, P.P. (2009). A Truth-Serum for Non-Bayesians: Correcting Proper Scoring Rules for Risk Attitudes. *Review of Economic Studies* 76, (4), 1461-1489 [A].
- Onderstal, S. (2009). Bidding for the Unemployed: An Application of Mechanism Design to Welfare-to-Work Programs. *European Economic Review* 53, (6), 715-722 [A].
- Schram, A.J.H.C., & Onderstal, S. (2009). Bidding to Give: An Experimental Comparison of Auctions for Charity. *International Economic Review*, 50, (2), 431-457 [A].
- Ule, A., Schram, A.J.H.C., Riedl, A. & Cason, T. (2009). Indirect Punishment and Generosity Towards Strangers. *Science*, 326, (5960), 1701-1703 [A].

B

- Boone, J., Chen, R., Goeree, J.K., & Polydoro, A. (2009). Risky procurement with an insider bidder. *Experimental Economics*, 12, (4), 417-436 [B].
- Boone, J., & Ours, J.C. van (2009). Bringing Unemployed Back to Work: Effective Active Labor Market Policies. *De Economist*, 157, (3), 293-313 [B].
- Dari-Mattiacci, G., Onderstal, S., & Parisi, F. (2009). Seeking Rents in the Shadow of Coase. *Public Choice* 139, (1-2), 171-196 [B].
- Englmaier, F., Guillén, P., Llorente, L. Onderstal, S., & Sausgruber, R. (2009). The Chopstick Auction: A Study of the Exposure Problem in Multi-Unit Auctions. *International Journal of Industrial Organization* 27, (2), 286-291 [B].
- Gërxxhani, K. & Schram, A.J.H.C. (2009). Clientelism and polarized voting: Empirical evidence. *Public Choice*. 141, (3-4), 305-317 [B].
- Sutter, M., Bosman, R., Kocher, M., & Winden, F.A.A.M. van (2009). Gender pairing and bargaining—Beware the same sex! *Experimental Economics*, 12, (3), 318-331 [B].
- Veelen, M. van (2009). The apples and oranges theorem for price indices. *Economics Letters* 103, (1), 12-14 [B].
- Veelen, M. van, & Spreij, P. (2009). Evolution in games with a continuous action space. *Economic Theory* 39, (2), 355-376 [B].

C

- Pelloux, B., Rullière, J.L., & Winden, F.A.A.M. van (2009). La Neuroéconomie dans l'Agende de l'Économie Comportementale. *Revue Française d'Économie* 23, 3-36 [C].

Academic publications (in/of books) – refereed

A

- Abbink, K. and Brandts, J. (2009). Collusion in Growing and Shrinking Markets: Empirical Evidence from Experimental Duopolies. In Hinloopen, J. & Normann, H. (eds.) *Experiments and Competition Policy*, (34-61). Cambridge: Cambridge University Press, 2009, [A].
- Offerman, T., & Onderstal, S. (2009). Making Uncompetitive Auctions Competitive: A Survey of Experiments. In Hinloopen, J. & Normann, H. (eds.) *Experiments and Competition Policy*, (231-267). Cambridge: Cambridge University Press, 2009, [A].

B

- Riedl, A., & Winden, F.A.A.M. van (2007). Does the Wage Tax System Cause Budget Deficits? A Macroeconomic Experiment in: E. Carbone and C. Starmer (eds.), *New Developments in Experimental Economics*, Edward Elgar Publishing, Vol II, Chapter 19. (Reprint of Public Choice, 109, 2001, 371-394) [B].
- Winden, F.A.A.M. van, Stallen, M. and Ridderinkhof, K.R. (2009). On the Nature, Modeling and Neural Bases of Social Ties. In: Daniel E. Houser and Kevin A. McCabe (eds) *Neuroeconomics, Vol. 20, Advances in Health Economics and Health Services Research*, Emerald Insight Publishing, 125-159 [B].

Academic publications (working- and discussion papers)

- Abbink, K., & Herrmann, B. (2009). *The Moral Costs of Nastiness*. CeDEX Discussion paper series, 2009-10.
- Abbink, K., & Herrmann, B. (2009). *Pointless Vendettas*. CREED working paper series 2009.
- Abbink, K., & Brandts, J. (2009). *Political Autonomy and Independence: Theory and Experimental Evidence*. Revised version with new data. CREED working paper series 2009.
- Abbink, K., Masclet, D., & Mirza, D. (2009). *Inequality and Riots - Experimental Evidence*. CREED working paper series 2009.
- Bertrand, R., Schram, A.H.J.C., & Vaassen, E. (2009). *Understanding Contract Audits: An Experimental Approach*. CREED working paper series 2009.
- Brandts, J., Gërkhani, K., Schram, A.J.H.C., & Ygosse-Battisti, J. (2009). *Size Doesn't Matter! Gift Exchange in Experimental Labor Markets*. CREED working paper series 2009.
- Fong, Yuk-fai, Huang, Chen-Ying, & Offerman, T.J.S. (2009). *Guilt Driven Reciprocity in a Psychological Signaling Game*. Discussion Paper, University of Amsterdam.
- Gillet, J., Schram, A.J.H.C., & Sonnemans, J.H. (2009). *Cartel Formation and Pricing: The Effect of Managerial Decision Making Rules*. CREED working paper series 2009.
- Goeree, J. K., Offerman, T.J.S., & Sloof, R. (2009). *Demand Reduction and Preemptive Bidding in License Auctions*. Discussion Paper, University of Amsterdam.
- Haan, T. de, Offerman, T.J.S., & Sloof, R. (2009). *Noisy Signaling: Theory and Experiment*. Discussion Paper, University of Amsterdam.
- Hinloopen, J. & Onderstal, S. (2009). *Going Once, Going Twice, Reported! Cartel Activity and the Effectiveness of Leniency Programs in Experimental Auctions*. Tinbergen Institute Discussion Paper 09-085/1
- Hu, A., Offerman, T.J.S., & Zou, L. (2009). *A Theory of Premium Auctions*. Discussion Paper, University of Amsterdam.
- Hu, A., Matthews, S., & Zou, L. (2009). *Risk Aversion and Optimal Reserve Prices in First and Second-Price Auctions*. Revised and Submitted to Journal of Economic Theory. Discussion Paper, University of Amsterdam.
- Hu, A., & Zou, L. (2009). *Efficient Auctions of Risky Asset to Heterogeneous Risk Averse (Preferring) Buyers*. Discussion Paper, University of Amsterdam.
- Hu, A., Matthews, S., & Zou, L. (2009). *Exclusion Principle in Sealed-Bid Auctions*. Hu, A. & Zou, L. *Selecting Less Corruptible Bureaucrats: A Quasi-Auction Approach*. Discussion Paper, University of Amsterdam.
- Kocher, M., Krawczyk, M., & Winden, F.A.A.M. van (2009). *Let me dream on! Anticipatory emotions and preference for timing in lotteries*. CREED working paper series 2009.
- Lacomba, J., Lagos, F., Reuben, E., & Winden, F.A.A.M. van (2009). *Breaking the Violence: Attaining Peaceful Relations in Games of Conflict*. Discussion Paper, University of Amsterdam.
- Leuven, E., Oosterbeek, H., Sonnemans, J.H., & Klauw, B. van der (2009). *Incentives versus sorting in tournaments: Evidence from a field experiment*. CREED working paper series 2009.
- Linde, J., & Sonnemans, J.H. (2009). *Social Comparison and Risky Choices*. CREED working paper series 2009.
- Michelucci, F., & Hernando-Veciana, A. (2009). *Second Best Efficiency and the English Auction*. Job Market Paper.
- Mougeot, M., Naegelen, F., Pelloux, B. and Rullière, J.-L (2009). *Breaking Collusion in Auctions Through Speculation: An Experiment on CO2 Emission Permit Market*.
- Offerman, T.J.S., & Veen, A. van der (2009). *How to Subsidize Contributions to Public Goods - Does the Frog Jump Out of the Boiling Water?* Discussion Paper, University of Amsterdam.
- Onderstal, S. & Meerendonk, A. van de (2009). *Auctioning Incentive Contracts: An Experimental Study*. Tinbergen Institute Discussion Paper 09-101/1.
- Sadiraj, V., Tuinstra, J., & Winden, F.A.A.M. van (2009). *Identification of Voters with Interest Groups Improves the Electoral Changes of the Challenger*. CREED working paper series 2009.
- Schram, A.J.H.C., & Tyszler, M. (2008). *Information and Strategic Voting*. Discussion Paper, University of Amsterdam.
- Tyszler, M. (2009). *Information and Strategic Voting: Heterogeneous Preferences*. Discussion Paper, University of Amsterdam.
- Winden, F.A.A.M. van, & Ash, E. (2009). *On the Behavioral Economics of Crime*. Discussion Paper, University of Amsterdam.

Professional publications

Lackner, I., Onderstal, S., De Smeth, O. & Theisens, J. (2009). Ruimte voor Professionals: Economische Perspectieven. In T. Jansen, G. van den Brink, and J. Kole (eds.), *Beroepstrots. Een ongekennde kracht*. Amsterdam: Uitgeverij Boom

Contributions to academic conferences, workshops and seminars

- Groot Ruiz, A. de (2009, 21 January). New York, NYU-CREED meeting, Neologism Proofness and ACDC.
- Groot Ruiz, A. de (2009, 5 June). Maastricht, Maastricht Behavioral and Experimental Economics Symposium, Strategic and Coalitional Bargaining
- Groot Ruiz, A. de (2009, 13 June). Norwich, CREED-CEDEX-CBESS meeting, Neologism Proofness and ACDC.
- Groot Ruiz, A. de (2009, 3 September). Amsterdam, Amsterdam Symposium on Behavioral Economics, Neologism Proofness and ACDC.
- Hu, A. (2009, August). Far East and Asian Econometric Society Meeting, Tokyo.
- Hu, A. (2009, August). Seminar at Yokohama National University.
- Hu, A. (2009, November). Seminar at Tinbergen Institute.
- Linde, J. (2009, January). Social Comparison and Risky Choices, CESS/CREED graduate student conference, New York,
- Linde, J. (2009, June). Social Comparison and Risky Choices, Maastricht Behavioral and Experimental Economics Symposium.
- Linde, J. (2009, July). Social Comparison and Risky Choices, CREED-CeDEX-CBESS Graduate student conference, Norwich.
- Linde, J. (2009, July). Social Comparison and Risky Choices, IAREP Summer School in Psychological Economics and Economic Psychology, Trento.
- Linde, J. (2009, September). Social Comparison and Risky Choices, European ESA conference, Innsbruck.
- Offerman, T.J.S. (2009, 30 January). How to Subsidize Contributions to Public Goods – Does the Frog Jump Out of the Boiling Water? Invited Lecture, Universite Paris 1, Paris.
- Offerman, T.J.S. (2009, 7 February). How to Subsidize Contributions to Public Goods – Does the Frog Jump Out of the Boiling Water?, Internal Seminar, University of Amsterdam.
- Offerman, T.J.S. (2009, 24 March). How to Subsidize Contributions to Public Goods – Does the Frog Jump Out of the Boiling Water?, Invited Lecture, University College London, London.
- Offerman, T.J.S. (2009, 23-24 October). Discussant at NYU-CESS workshop on Methodology of Experimental Economics, NYU, New York.
- Offerman, T.J.S. (2009, December 8). Neologisms and ACDC: Refining Cheap Talk Equilibria, Invited Lecture, University of Munich, Munich.
- Onderstal, S. (2009). Neologisms and ACDC: Refining Cheap Talk Equilibria. Seminar, University of Bonn.
- Onderstal, S. (2009). Neologisms and ACDC: Refining Cheap Talk Equilibria. Seminar, University of Cologne.
- Onderstal, S. (2009). Neologisms and ACDC: Refining Cheap Talk Equilibria. Seminar, University of Aachen.
- Onderstal, S. (2009). Going Once, Going Twice, Reported! Cartel Activity and the Effectiveness of Leniency Programs in Experimental Auctions. Seminar, University of Munich.
- Onderstal, S. (2009). Going Once, Going Twice, Reported! Cartel Activity and the Effectiveness of Leniency Programs in Experimental Auctions. ESA 2009, Innsbruck.
- Onderstal, S. (2009). Going Once, Going Twice, Reported! Cartel Activity and the Effectiveness of Leniency Programs in Experimental Auctions. EARIE 2009, Ljubljana.
- Onderstal, S. (2009). Going Once, Going Twice, Reported! Cartel Activity and the Effectiveness of Leniency Programs in Experimental Auctions. CRESSE 2009, Chania.
- Onderstal, S. (2009). Going Once, Going Twice, Reported! Cartel Activity and the Effectiveness of Leniency Programs in Experimental Auctions. SED 2009, Maastricht.
- Onderstal, S. (2009). Going Once, Going Twice, Reported! Cartel Activity and the Effectiveness of Leniency Programs in Experimental Auctions. M-BEES 2009, Maastricht.

- Onderstal, S. (2009). Going Once, Going Twice, Reported! Cartel Activity and the Effectiveness of Leniency Programs in Experimental Auctions. IIOC 2009, Boston.
- Onderstal, S. (2009). Bidding to Give: An Experimental Comparison of Auctions for Charity. Giving & Volunteering Research Conference 2009.
- Pelloux, B. (2009, 21 January). Graduate Students Exchange Conference on Experimental Economics, CESS (NYU) / CREED (UvA), New York City, NY.
- Pelloux, B. (2009, 12-13 June) Annual meeting CREED (UvA) / CeDEx (University of Nottingham) / CBESS (University of East Anglia), Norwich, UK.
- Pelloux, B. (2009, 4 September). 8th TIBER Symposium on Psychology and Economics, Tilburg, NL.
- Schram, A.J.H.C. (2009, 1-5 April). The Effect of Structure in Legislative Bargaining, European Public Choice Society, Athens, Greece.
- Schram, A.J.H.C. (2009, 12 June). The Effect of Structure in Legislative Bargaining, invited seminar at Florida State University.
- Schram, A.J.H.C. (2009, 9 October). An Introduction to Experimental Economics, invited seminar at the University of Catania.
- Schram, A.J.H.C. (2009, 9 October). Public Opinion Polls, Voter Turnout and Welfare: An Experimental Study, invited seminar at the University of Catania.
- Sonnemans, J.H. (2009, 21 January). Errors in judicial decisions: experimental evidence. Jena.
- Sonnemans, J.H. (2009, 23-24 April). Social Comparison and Risky Choices. Paderborn Workshop.
- Sonnemans, J.H. (2009, 18-19 September). A Multi-Round Strategy Tournament of the Minority Game: a Combined Laboratory and Internet Experiment. Economic Science Association, Innsbruck.
- Sonnemans, J.H. (2009, 15 October). A Multi-Round Strategy Tournament of the Minority Game: a Combined Laboratory and Internet Experiment. University of Nottingham.
- Tyszler, M. (2009, 24 March). Information and Strategic Voting. Tinbergen PhD Lunch Seminar Amsterdam,.
- Tyszler, M. (2009, 4 April) Information and Strategic Voting. EPCS (European Public Choice Society) Meeting, Athens.
- Tyszler, M. (2009, 17 June). Information and Strategic Voting. Tinbergen PhD Lunch Seminar Rotterdam,
- Tyszler, M. (2009, 26 June). Information and Strategic Voting. ESA (Economic Science Association) International Meeting Washington, DC.
- Tyszler, M. (2009, 15 September). Information and strategic voting: heterogeneous preferences. ESA (Economic Science Association) European Meeting, Innsbruck.
- Tyszler, M. (2009, 19 September). Information and Strategic Voting. Tinbergen PhD Lunch Seminar, Amsterdam
- Tyszler, M. (2009, 21 September). CESS-CREED New York 2009 Workshop on Experimental Economics.
- Ule, A. (2009, February). Rationality and the theory of games, University of Ljubljana.
- Ule, A. (2009, October). Indirect punishment and generosity towards strangers, University of Ljubljana.
- Ule, A. (2009, December). Investment and entry: theory and experiments, University of Primorska.
- Veelen, M. van (2009, 28 October). When inclusive fitness is right and when it can be wrong. Harvard University, Program for Evolutionary Dynamics.
- Veelen, M. van (2009, 18 November). In and out of equilibrium: evolution of strategies in repeated games with discounting. Harvard University, Program for Evolutionary Dynamics.
- Veelen, M. van (2009, 14 December). Apples and Oranges, or is it really all just fruit? Comparing price and income levels in a consistent and meaningful way. The World Bank.
- Winden, F.A.A.M. van (2009, 21 March). On the behavioral economics of crime. Invited contribution to the Workshop: Beyond the Economics of Crime, Heidelberg.
- Winden, F.A.A.M. van (2009, 31 May). Why trust strangers? Invited public lecture at the Trento Festival of Economics.
- Winden, F.A.A.M. van (2009, 11 June). Social interactions and social ties – for better or for worse. Keynote lecture. International conference on Happiness and Relational Goods: Well-being and interpersonal relations in the economic sphere. San Servolo Island, Venice.
- Winden, F.A.A.M. van (2009, 1 July). On the role of sympathy in willingness to share. Invited lecture. Summer School on Neuroeconomics (CNRS), La Baume.

- Winden, F.A.A.M. van (2009, 9 July). On the nature, modeling, and neural bases of social ties. Invited lecture on the occasion of the opening of the Goettingen Laboratory of Behavioral Economics, Goettingen.
- Winden, F.A.A.M. van (2009, 24 August). On the modeling of affect: ties, force fields, and manikins. Invited contribution to CSCA Workshop on Formal Models of Cognition. Amsterdam.
- Winden, F.A.A.M. van (2009, 21 September). Neural evidence of social ties. Invited contribution to the Amsterdam Symposium on Behavioral and Experimental Economics (ABEE09).
- Winden, F.A.A.M. van (2009, 22 October). On the role of empathy and sympathy in sharing. Keynote lecture at 1st ASFEE meeting (French association for experimental economists), Grenoble.
- Winden, F.A.A.M. van (2009, 23 November). On the role of empathy and sympathy in sharing. Seminar, Max-Planck Institute for Research on Collective goods, Bonn.

Other lectures on research

- Ule, A. Project presentation at the NWO conference at the conclusion of its Evolution & Behavior program.
- Winden, F.A.A.M. van (2009, 6 June). Hebben economen hersenen nodig? Lezing Universiteitsdag, Universiteit van Amsterdam.

Organisational contributions to conferences, workshops and seminars

- Offerman, T.J.S. (2009, 8 May). Organizer NYU-CREED workshop, University of Amsterdam.
- Offerman, T.J.S. (2009, 4-5 September). Co-organizer Amsterdam Workshop on Behavioral and Experimental Economics ABEE-2009, University of Amsterdam..
- Schram, A.J.H.C. (2009, 4-5 September). Co-organizer Amsterdam Workshop on Behavioral and Experimental Economics ABEE-2009, University of Amsterdam..
- Sonnemans, J.H. (2009, 4-5 September). Co-organizer Amsterdam Workshop on Behavioral and Experimental Economics ABEE-2009, University of Amsterdam..
- Ule, A.(2009, August). Summer school on mathematical methods in economics. University of Primorska.

Participation in academic networks & fellowships

- Offerman, T.J.S. (2009). Fellow of the Tinbergen Institute.
- Offerman, T.J.S. (2009). Fellow of CESS, NYU.
- Onderstal, S. (2006-). Fellow Tinbergen Instituut.
- Onderstal, S. (2006-). Fellow ACLE.
- Onderstal, S. (2006-). Fellow ENCORE.
- Schram, A.J.H.C. Fellow Tinbergen Institute
- Winden, F.A.A.M. van (2009). Fellow CEPR, CESifo, ENCORE, Tinbergen Instituut.

Editor or member of editorial board

- Offermans, T.J.S. (2009). Member of the Editorial Board of *Experimental Economics*.
- Offerman, T.J.S. (2009). Member of the Editorial Board of *Games and Economic Behavior*.
- Schram, A.J.H.C. (2009). Advisory editor of *Experimental Economics*.
- Sonnemans, J. (2009). Associate Editor of the *European Economic Review*.
- Sonnemans, J. (2009). Member Editorial Board *Journal of Economic Psychology*.
- Sonnemans, J. (2009). Member Editorial Board *Quantitative Finance*.
- Winden, F.A.A.M. van (2009). Board member *Public Choice*.

Referee activities

- Offerman, T.J.S. (2007). Referee for *American Economic Review* (3x), *Economic Journal*, *Experimental Economics* (2x), *Games and Economic Behavior*, *International Economic Review*, *International Journal of Industrial Organization*, *Journal of Economic Behavior and Organization*, *Journal of Economic Theory*, *Journal of Public Economics*, *NSF-proposal*, *Review of Economic Studies*.

- Onderstal, S. (2009). Referee for *Annals of Operations Research*, *Economic Theory*, *Experimental Economics*, *Games and Economic Behavior*, *International Journal of Industrial Organization*, and *Journal of Public Economic Theory*
- Pelloux, B. (2009). Referee for *Journal of Public Economic Theory* (JPET)
- Schram, A.J.H.C. (2007). Referee for *American Economic Review*, *American Political Science Review*, *Economics and Philosophy*, *Experimental Economics*, *Games and Economic Behavior*, *International Journal of Industrial Organization*, *Journal of Public Economics*, *Public Choice*, *Review of Economic Studies*, *Scandinavian Journal of Economic*.
- Ule, A. (2009). Referee for *Games and Economic Behavior*, *Journal of Economic Psychology*, *Journal of Economic Dynamics and Control*, *Experimental Economics*, *Transportation Research A*.
- Veelen, M. van (2009). Referee for *American Economic Review* (2x), *Evolution*, *International Journal of Game Theory* (2x) *Journal of Theoretical Biology*, *Review of Income and Wealth*.
- Winden, F.A.A.M. van (2009). Referee for *American Economic Review*, *Experimental Economics*, *Journal of the European Economic Association*, *Public Choice* (2x), *CSCA proposal*, *Nuffield Foundation proposal*, *FWO-Vlaanderen proposal*, *Volkswagen Stijfing proposal*

Membership of academic committees (including Ph.D. committees outside the FEB)

- Offerman, T.J.S. (2009, October 30). Committee member Ph-D Defense Gonul Dogan. Tilburg University, Tilburg.
- Sonnemans, J.H. (2009, January). Committee member Ph-D defense Stefan Trautmann, Erasmus Universiteit, Rotterdam.
- Sonnemans, J.H. (2009, 16 October). Committee member Ph-D defense Michalis Drouvelis. University of Nottingham.
- Winden, F.A.A.M. van (2009). Member Steering Group CSCA (Cognitive Science Center Amsterdam).
- Winden, F.A.A.M. van (2009). Member Board of Management IIPF (International Institute of Public Finance).
- Winden, F.A.A.M. van (2009). Member Program Committee Research Priority Program Cognition (Zwaartepunt Cogitie), University of Amsterdam (Voorstel voor een onderzoeksprogramma zwaartepunt Hersenen en Cognition). Member proposal evaluation committee.
- Winden, F.A.A.M. van (2009). Member evaluation committee J.C. Ruigrokprijs, KHMW.

Research contributions in the media

- Schram, A.J.H.C. (2009, 22 December). Interview Business News Radio.
- Winden, F.A.A.M. van (31 May, 2009). Interviews on video in context of Festival dell' Economia in Trento by L'Infonodo, J. Dettoni (also available on YouTube): <http://linfonodo.wordpress.com/category/economia/festival-delleconomia-2009/>
- Winden, F.A.A.M. van (31 May, 2009). Interviews in Adige and Messagero on occasion of Festival of Economics, Trento.

Grants, prizes and honours

- Winden, F.A.A.M. van (2009). Research grant Cognition Program, University of Amsterdam, for project: Decision-Making and Adaptive Control over Impulsive Actions (joint with K. R. Ridderinkhof, D. Denys, B. Forstmann, and E.-J. Wagenmakers).

Various activities

- Hu, A. (2009, August-September). Academic visit to Yokohama National University.
- Offerman, T.J.S. (2009, January 1-23). Visitor at New York University, New York.
- Offerman, T.J.S. (2009, January 29). Committee member Ph-D Defense Peter Heemijer. University of Amsterdam, Amsterdam.
- Offerman, T.J.S. (2009, October 28). Committee member Ph-D Defense Michal Krawczyk. University of Amsterdam, Amsterdam.

- Offerman, T.J.S. (2009, November 12). ‘Strategic Communication and Credibility’, Presentation for NWO-VICI committee, Utrecht.
- Offerman, T.J.S. (2009, December 4). Committee member Ph-D Defense Marie Goppelsroeder. University of Amsterdam, Amsterdam
- Schram, A.J.H.C. (2009, 16 January). Committee member Ph-D Defense Isidoro Mazza. University of Amsterdam, Amsterdam.
- Schram, A.J.H.C. (2009, 29 January). Committee member Ph-D Defense Peter Heemijer. University of Amsterdam, Amsterdam.
- Winden, F.A.A.M. van (2009, 29 January). Committee member Ph-D Defense Peter Heemijer. University of Amsterdam, Amsterdam.

CHAPTER 10: INDUSTRIAL ORGANISATION, COMPETITION POLICIES & REGULATION

<i>Programme Director:</i>	<i>Prof.dr. P. van Cayseele & Prof.dr. J. Hinloopen</i>
<i>Department:</i>	<i>Economics (AE)</i>
<i>METIS-code:</i>	<i>uva/fee/res/ica/prog</i>
<i>JEL-classification:</i>	<i>L</i>
<i>Starting date programme:</i>	<i>2005</i>
<i>VSNU-scores 2001-2007:</i>	<i>Quality: 5, Productivity: 4.5, Relevance: 5, Viability: 4,5</i>

10.1 MEMBERS OF THE RESEARCH GROUP AND RESEARCH IN FTES

<i>Name</i>	<i>Title</i>	<i>Function</i>	<i>Total 2006</i>	<i>Total 2007</i>	<i>Total 2008</i>	<i>Total 2009</i>	<i>Dept.</i>	<i>Funding</i>
Brouwer, M.T.	dr	ud	0,00	0,00	0,00	-	AE	1
Cayseele, P. van	prof dr	hgl	0,10	0,10	0,10	0,20	AE	1
Doarest, A.	msc	phd	-	0,45	0,60	0,60	AE	1
Leffelaar-Felsö, F.A.	msc	phd	-	-	0,48	0,54	AE	1
Hinloopen, J.	dr	uhd	0,50	0,50	0,50	-	AE	1
Hinloopen, J.	prof dr	hgl	-	-	-	0,50	AE	2
Onderstal, S.	dr	ud	0,29	0,26	0,28	0,49	AE	1
Soetevent, A.R.	dr	ud	0,50	0,33	-	-	AE	1
Soetevent, A.R.	dr	ud	-	0,30	0,90	0,90	AE	2
Total 1st flow of funds			1,39	1,64	1,96	1,83		
Total 2nd flow of funds			0,00	0,30	0,90	1,40		
Total 3rd flow of funds			0,00	0,00	0,00	0,00		
Total 1st f.o.f. excl. Ph.D.'s			1,39	1,19	0,88	0,69		
Total all flows of funds			1,39	1,94	2,86	3,23		
Ph.D. students			0,00	0,45	1,08	1,14		

10.2 PROGRAMME DESIGN

Objective

Improving the understanding of the working of imperfectly competitive markets and the possible role for government intervention on these markets by focusing on issues within the sphere of Industrial Organization and using applied oligopoly theory, field experiments and laboratory experimentation as research methods.

Motivation

Industrial Organization (IO) studies imperfectly competitive markets, in particular how firms compete with each other on these markets and what the effects are of policy interventions aimed at affecting market performance. The natural focus of IO is on oligopolies where firms have at least some market power. Topics of interest thus include pricing strategies, collusion and tacit collusion, locational choice, research and development, inter-firm relationships, competition policies, market design, auctions, and regulation. IO is a field that uses all three types of research strategies: theoretical, empirical, and experimental. The research program does not preclude any of these research methods.

Projects

The program of the IO group can be subdivided into five strands of research, which are interrelated:

Research and Development

If a firm invests in R&D, process innovation may result in a competitive advantage over competitors. We study the effect of R&D on market performance whereby the type of product market competition is

explicitly taken into account. We also look at the interplay between research joint venture (RJV) participation and product market collusion. As RJVs are legal they may provide a platform for tacit collusion in the product market. Recently research into the dynamic aspects of R&D has been started. This research is carried out in close collaboration with CENDEF. This strand within the research program is both theoretical and empirical.

Applied Industrial Organization

In many markets, prices and market power of firms is a function of the physical position of these firms relative to other firms and to consumers. In this research area, we aim at reconciling theoretical models of spatial competition with empirical regularities. Another wave of research is related to behavioural aspects of competition policies. Group members are involved in a project that uses cross-national merger policy data to elicit whether firms react to spikes in prohibitions and remedies by proposing fewer merger proposals in subsequent years. Other research considers managerial aspects of inter-firm collaborations. Asymmetric information and the interplay of potential problems of both cooperation and coordination may lead firms to agree upon a merger but not on the necessary post-merger efforts needed for success. The research is both theoretical and empirical.

Auctions and Procurement

In the past few decades, the study of auctions has become one of the most active research areas in economic sciences. We aim at answering questions such as: How to prevent cartel formation in auctions? What is the effect of limited liability on bidding behavior? How to design auctions of multiple objects? What are optimal mechanisms in quasi-markets such as welfare-to-work markets and health care markets? What is the effect of license auctions on the performance of markets? The methods include mechanism design theory, lab experiments, and field experiments.

Information and pricing

With the arrival of Internet a new medium of exchanged has presented itself. Purchasing behaviour differs markedly between offline and online transaction. For instance, search cost online are typically lower than offline. At the same time, product characteristics can be examined better offline. Natural questions then arise: is there a difference between pricing distributions online and offline? Why do some firms sell offline only, while others sell only online, and yet others sell both offline and online? Which products can we expect to be purchased online? This research theme is both empirical and theoretical.

Behavioral Public Economics

Group members are involved in a number of ongoing (field) experiments that test different aspects of philanthropic mechanism design and social interactions in consumption. The questions addressed include: Do households adapt their consumption pattern when their neighbors win a lottery prize? How does offering different payment options like cash and/or debit impact contributions to charity? Which fundraising mechanism is most successful in raising money for charity?

10.3 PROGRAMME EVALUATION

For the Industrial Economics research group, 2009 constituted again an exciting year with numerous highlights. Given that we are a small group, we produced a good number of publications (5 x A, 4 x B, including one book, several book chapters). In addition there are several articles forthcoming.

The program is relatively new. It was established only in 2005. Yet, the recent QANU-visitation put the program at the (shared) top of all UvA programs, with maximum scores for quality and relevance, and almost maximum scores for productivity and viability.

The group succeeded in hiring good faculty members (e.g. Jo Seldeslachts) and keeping the existing team together at the UvA. The international visibility of the group only has increased steadily since the international conferences that have been organized in the past. This has led to numerous invitations to present research at prestigious universities abroad. For the future, we face the challenges of continuously

attracting good Ph.D. students and competing for funding their PhD tracks. Fortunately, we have been lucky in attracting a new, promising Ph.D. candidate: Gerga Smrkolj.

10.4 RESOURCES AND FUNDING

The programme received funding from the research institute RESAM but this amount was modest relative to the cost of participation of group members in conferences. Soetevent's VENI scholarship amounts to about €200,000 for a three year period. With the arrival of our third PhD-student additional means were obtained from the Tinbergen Institute. Some of the group members managed to obtain additional means from commissioned research for public and private institutions.

10.5 OUTPUT

Key publications

Goeree, J.K., Maasland, E., Onderstal, S., and Turner, J. (2005). "How (Not) to Raise Money," *Journal of Political Economy* 113, 897-918.

Hinloopen, J and A. R. Soetevent (2008), "Laboratory evidence on the effectiveness of corporate leniency programs", *RAND Journal of Economics*, **39**, No. 2 (Summer), pp. 607 – 616.

Ioannides, Y. M., and A. R. Soetevent (2006). "Wages and Unemployment in a Random Social Network with Arbitrary Degree Distribution," *American Economic Review*, 96(2), 270-274.

Konings, J., Cayseele, P. van & Warzynski, F. (2005). The Effects of Privatization and Competitive Pressure on Firms' Price-Cost Margins. *The Review of Economics and Statistics*, 87, 124-134.

Schram, A.J.H.C. & S. Onderstal (2009). Bidding to Give: An Experimental Comparison of Auctions for Charity. *International Economic Review* 50, 431-457. [A]

Forthcoming

Hu, A., Offerman, T., & Onderstal, S. (2010) Fighting Collusion in Auctions: An Experimental Investigation. forthcoming in *International Journal of Industrial Organization* [B]

Albert Banal-Estanol, Paul Heidhues, Rainer Nitsche, and Jo Seldeslachts (2010), "Screening and Merger Activity", *Journal of Industrial Economics*, forthcoming.

Tomaso Duso and Jo Seldeslachts (2010), "The Political Economy of Mobile Telecommunications Liberalization: Evidence from the OECD Countries". *Journal of Comparative Economics*, forthcoming.

Pedro Barros, Joe Clougherty and Jo Seldeslachts (2010), "How to Measure the Deterrence Effects of Merger Policy: Frequency or Composition?". *International Journal of the Economics of Business*, forthcoming.

De Smet, D. and P. Van Cayseele (2010), "Entry Deterrence in Two-Sided Markets: The Market for Online Classified Ads," *Review of Business and Economics*, forthcoming

Publications in numbers

<i>Industrial Organisation, Competition policies & Regulation</i>				2009
1) Academic publications	a) in refereed journals	A	2	7
		B	4	
		C	1	
	b) in other journals			-
		c) book chapters	A	2
		B	-	
		C	-	
		Other	1	
	d) proceedings		Other	2
Total			10	
2) Monographs		A	-	0
		B	-	
		C	-	
3) Ph.D. theses				-
4) Professional publications				10
5) Popular publications				1
6) Working papers				8
Total				29

Academic publications (excluding publications in/of books) – refereed

A

- Onderstal, A.M. (2009). Bidding for the Unemployed: An Application of Mechanism Design to Welfare-to-Work Programs. *European Economic Review* 53, 715-722. [A]
 Schram, A.J.H.C. & A.M. Onderstal (2009). Bidding to Give: An Experimental Comparison of Auctions for Charity. *International Economic Review* 50, 431-457. [A]

B

- Dari-Mattiacci, G., Onderstal, A.M., & Parisi, F. (2009). Seeking Rents in the Shadow of Coase. *Public Choice* 139, 171-196. [B]
 Englmaier, F., Guillén, P., Llorente, L. Onderstal, S., & Sausgruber, R. (2009). The Chopstick Auction: A Study of the Exposure Problem in Multi-Unit Auctions. *International Journal of Industrial Organization* 27, 286-291. [B]
 Hinloopen, J. and Vandekerckhove, J. (2009), “Dynamic efficiency of Cournot and Bertrand competition: input versus output spillovers”, *Journal of Economics*, 98, No. 2, pp. 119 – 136. [B].
 Seldeslachts, J., Clougherty, J., and Pedro Barros, “Settle for Now but Block for Tomorrow: The Deterrence Effects of Merger Policy Tools”. *Journal of Law and Economics*, Vol. 52 (3), August 2009, pp. 607-634. [B]

Other

- Van Cayseele, P. (2009), “Het Profiel en de Rol van een Chief Competition Economist,” *Tijdschrift voor Belgische Mededinging – Revue de la Concurrence Belge* 4(2), pp. 49–51.

Academic publications (in/of books) – refereed

- Hinloopen, J. and Normann, H.-T. (2009), Experimental Economics and the Practice of Competition Policy Implementation, pp. 301-312. In J. Hinloopen. and H.-T. Normann. (eds.), *Experiments and Competition Policy* (2009), Cambridge: Cambridge University Press [A]
 Offerman, T. & Onderstal, S. (2009). Making Uncompetitive Auctions Competitive: A Survey of Experiments. In J. Hinloopen and H.-T. Normann (eds.), *Experiments and Competition Policy* (2009), Cambridge: Cambridge University Press [A]

Academic publications (in/of books) – non-refereed

Hinloopen, J. and Normann, H.-T. (2009), Introduction, In J. Hinloopen. and H.-T. Normann. (eds.), Experiments and Competition Policy (2009), Cambridge: Cambridge University Press.

Academic publications (working- and discussion papers)

Hinloopen, J. & Onderstal, S. (2009). Going Once, Going Twice, Reported! Cartel Activity and the Effectiveness of Leniency Programs in Experimental Auctions. Tinbergen Institute Discussion Paper No. 09-085/1

Onderstal, S. & Van de Meerendonk, A. (2009). Auctioning Incentive Contracts: An Experimental Study. Tinbergen Institute Discussion Paper 09-101/1

Joe Cloughertz and Jo Seldeslachts, “The Deterrence Effects of U.S. Merger Policy Instruments”, WP WZB 2009

Soetevent, A. R. (2009) *Payment Choice, Image Motivation and Contributions to Charity: Evidence from a Field Experiment*,” Discussion Paper TI 09-015/1, Tinbergen Institute. Revised: September 2009

Soetevent, A. R., P. Heijnen and M. A. Haan (2009) *Do auctions and forced divestitures increase competition on established markets? Evidence for Dutch retail gasoline*. Discussion Paper TI 08-117/1, Tinbergen Institute. Revised: December 2009

Kuhn, P., P. Kooreman, A. R. Soetevent and A. Kapteyn (2009) *The Own and Social Effects of an Unexpected Income Shock: Evidence from the Dutch Postcode Lottery*. Revised: December 2009

De Smet, D. and P. Van Cayseele (2009), “Multi-Product Quantity Setting in Two-Sided Media Markets,” *LICOS DP, KULeuven*

Cheng, X. and P. Van Cayseele (2009), “State Aid and Competition in Banking: The Case of China in the Late Nineties,” *LICOS DP, KULeuven*

Professional publications

Lackner, I., Onderstal, S., De Smeth, O. & Theisens, J. (2009). Ruimte voor Professionals: Economische Perspectieven. In T. Jansen, G. van den Brink, and J. Kole (eds.), *Beroepstrots. Een omgekeerde kracht*. Amsterdam: Uitgeverij Boom

Hinloopen, J. (2009) “Rood! Rood!”, 2009, *Tijdschrift voor het Economisch Onderwijs*, No. 6 (december): 315.

Hinloopen, J. (2009) “Samenwerken en onderhandelen”, 2009, *Tijdschrift voor het Economisch Onderwijs*, No. 5 (oktober): 241.

Hinloopen, J. (2009) “Snap dat dan!”, 2009, *Tijdschrift voor het Economisch Onderwijs*, No. 4 (augustus): 173.

Hinloopen, J. (2009) “Canon economie: experimentele economie”, 2009, *Tijdschrift voor het Economisch Onderwijs*, No. 4 (augustus): 202 – 203.

Hinloopen, J. (2009) “Geluksgetallen”, 2009, *Tijdschrift voor het Economisch Onderwijs*, No. 3 (juni): 137.

Hinloopen, J. (2009) “De vloek van de winnaar”, 2009, *Tijdschrift voor het Economisch Onderwijs*, No. 2 (april): 73.

Hinloopen, J. (2009) “Naschrift op: Economieonderwijs slachtoffer van tunnelvisie”, 2009, *Economisch Statistische Berichten*, 94(4555): 156 – 157.

Hinloopen, J. (2009) “De kern van de economie”, 2009, *Tijdschrift voor het Economisch Onderwijs*, No. 1 (februari): 11.

Soetevent, A. R., M. A. Haan and P. Heijnen (2009). De prijseffecten van benzineveilingen, *Economisch Statistische Berichten*, January 23, **94**, no. 4552, pp. 42-44.

Popular publications

Soetevent, A. R., M. A. Haan and P. Heijnen (2009). The price effects of gasoline auctions. *Medium Econometrische Toepassingen*, **17**(1), pp. 12-17.

Contributions to academic conferences, workshops and seminars

- Doarest, A. (2009). The effect of Anti trust law on dynamics of price cost margin In Indonesia. Experience from firm level Panel data from 1991-2005. Seminar, Indonesian Antitrust Authority.
- Felso, F.A. (2009, 3-5 September) Why would a lawyer work for a fixed fee? European Association for Research in Industrial Economics (EARIE) Conference. Ljubljana, Slovenia. Paper presentation.
- Felso, F.A. (2009, 17-19 September) Why would a lawyer work for a fixed fee? Annual Conference European Association of Law and Economics (EALE). Rome, Italy. Paper presentation.
- Felso, F.A. (2009, 17-19 September) Discussant to Amanda Carmignani, Silvia Giacomelli: Too Many Lawyers? Litigation in Italian Civil Courts Annual Conference European Association of Law and Economics (EALE) Rome Italy. Discussant.
- Hinloopen, J. (2009), “Going once, going twice, reported! Cartel activity and the effectiveness of leniency programs in experimental auctions”, invited seminar, Dutch competition authority (NMa), The Hague.
- Hinloopen, J. (2009), “Going once, going twice, reported! Cartel activity and the effectiveness of leniency programs in experimental auctions”, invited seminar, Helsinki Centre for Economic Research (HECER), University of Helsinki, June 2009, Helsinki.
- Hinloopen, J. (2009), “Going once, going twice, reported! Cartel activity and the effectiveness of leniency programs in experimental auctions”, invited seminar, University of Dortmund, April 2009, Dortmund.
- Hinloopen, J. (2009), “Going once, going twice, reported! Cartel activity and the effectiveness of leniency programs in experimental auctions”, invited seminar, University of Padova, February 2009, Padova.
- Hinloopen, J. (2009), “Dynamic efficiency of Cournot and Bertrand competition with cooperative R&D”, Society for the Advancement of Economic Theory (SAET), Conference presentation, June 2009, Ischia.
- Hinloopen, J. (2009), “Going once, going twice, reported! Cartel activity and the effectiveness of leniency programs in experimental auctions”, Annual Conference of the Centre for Competition Policy (CCP) at the University of East Anglia, Conference presentation, June 2009, Norwich.
- Hinloopen, J. (2009), discussant of Koltay, G., Farkas, D. and Csorba, G., Separating ex-post effects of mergers: an analysis of structural changes on the Hungarian retail gasoline market. European Association for Research in Industrial Economics (EARIE), Ljubljana.
- Hinloopen, J. (2009), discussant of Huse, C. and Davis, P., Estimating the ‘coordinated effects’ of mergers. European Association for Research in Industrial Economics (EARIE), Ljubljana.
- Hinloopen, J. (2009), discussant of Weichselbaumer, M. Using matching to evaluate mergers. European Association for Research in Industrial Economics (EARIE), Ljubljana.
- Onderstal, S. (2009). Neologisms and ACDC: Refining Cheap Talk Equilibria. Seminar, University of Bonn.
- Onderstal, S. (2009). Neologisms and ACDC: Refining Cheap Talk Equilibria. Seminar, University of Cologne
- Onderstal, S. (2009). Neologisms and ACDC: Refining Cheap Talk Equilibria. Seminar, University of Aachen
- Onderstal, S. (2009). Going Once, Going Twice, Reported! Cartel Activity and the Effectiveness of Leniency Programs in Experimental Auctions. Seminar, University of Munich
- Onderstal, S. (2009). Going Once, Going Twice, Reported! Cartel Activity and the Effectiveness of Leniency Programs in Experimental Auctions. ESA 2009, Innsbruck
- Onderstal, S. (2009). Going Once, Going Twice, Reported! Cartel Activity and the Effectiveness of Leniency Programs in Experimental Auctions. EARIE 2009, Ljubljana
- Onderstal, S. (2009). Going Once, Going Twice, Reported! Cartel Activity and the Effectiveness of Leniency Programs in Experimental Auctions. CRESSE 2009, Chania
- Onderstal, S. (2009). Going Once, Going Twice, Reported! Cartel Activity and the Effectiveness of Leniency Programs in Experimental Auctions. SED 2009, Maastricht

- Onderstal, S. (2009). Going Once, Going Twice, Reported! Cartel Activity and the Effectiveness of Leniency Programs in Experimental Auctions. M-BEES 2009, Maastricht
- Onderstal, S. (2009). Going Once, Going Twice, Reported! Cartel Activity and the Effectiveness of Leniency Programs in Experimental Auctions. IIOC 2009, Boston
- Seldeslachts, J. (2009). “The Deterrence Effects of U.S. Merger Policy Instruments”. IIOC 2009, Boston.
- Seldeslachts, J. (2009). “The Deterrence Effects of U.S. Merger Policy Instruments”. ACLE 2009, Amsterdam.
- Seldeslachts, J. (2009). “The Deterrence Effects of U.S. Merger Policy Instruments”. Jornadas de Economia Industrial 2009, Vigo.
- Seldeslachts, J. (2009). “The Deterrence Effects of U.S. Merger Policy Instruments”. EEA 2009, Barcelona.
- Seldeslachts, J. (2009). “The Deterrence Effects of U.S. Merger Policy Instruments”. Universidad Complutense de Madrid, invited seminar.
- Seldeslachts, J. (2009). “The Deterrence Effects of U.S. Merger Policy Instruments”. Instituto de la Empresa, Madrid, invited seminar.
- Seldeslachts, J. (2009). “The Deterrence Effects of U.S. Merger Policy Instruments”. Universidad la Nebrija, Madrid, invited seminar.
- Seldeslachts, J. (2009). “The Deterrence Effects of U.S. Merger Policy Instruments”. Universiteit van Amsterdam, invited seminar.
- Soetevent, A. R. (2009), “Payment Choice, Image Motivation and Contributions to Charity: Evidence from a Field Experiment,” July 9, Giving & Volunteering Research Conference, Free University, Amsterdam, NL.
- Soetevent, A. R. (2009), “Payment Choice, Image Motivation and Contributions to Charity: Evidence from a Field Experiment,” January 15, Dutch Central Bank, Amsterdam, The Netherlands, invited seminar.
- Soetevent, A. R. (2009), “Payment Choice, Image Motivation and Contributions to Charity: Evidence from a Field Experiment,” October 16, Erasmus University Rotterdam, Rotterdam, The Netherlands, invited seminar.
- Soetevent, A. R. (2009), “Do auctions and forced divestitures increase competition on established markets?” April 23, KU Leuven, Belgium, invited seminar.
- Soetevent, A. R. (2009), “Do auctions and forced divestitures increase competition on established markets?” April 4, 7th International Industrial Organization Conference (IIOC), Boston, USA
- Soetevent, A. R. (2009), “The Own and Social Effects of an Unexpected Income Shock: Evidence from the Dutch Postcode Lottery,” July 18, NBER Summer Institute workshop on the Economics of Household Saving, Boston, USA, invited presentation.
- Soetevent, A. R. (2009), “The Own and Social Effects of an Unexpected Income Shock: Evidence from the Dutch Postcode Lottery,” October 23, CIREQ-CIRANO Conference on the Econometrics of Interactions, Montreal, Canada, invited presentation.
- Soetevent, A. R. (2009), “Do auctions and forced divestitures increase competition on established markets?” September 4, 36th EARIE conference, Ljubljana, Slovenia

Organisational contributions to conferences, workshops and seminars

- Onderstal, S. (2009) Co-organizer of the Economics Colloquia seminar series (joint TI/RESAM initiative)
- Soetevent, A. R. (2009) Co-organizer of the Economics Colloquia seminar series (joint TI/RESAM initiative)

Participation in academic networks & fellowships

- Hinloopen, J. (2001-). Fellow Tinbergen Instituut.
- Hinloopen, J. (2006-). Fellow ENCORE (Economics Network for Competition and Regulation).
- Hinloopen, J. (2008-). Fellow ACLE (Amsterdam Center for Law & Economics).
- Onderstal, S. (2006-). Fellow Tinbergen Instituut.
- Onderstal, S. (2006-). Fellow ACLE.
- Onderstal, S. (2006-). Fellow ENCORE.

Soetevent, A. R. (2005-). Fellow Tinbergen Instituut.
Soetevent, A. R. (2006-). Fellow ENCORE.
Soetevent, A. R. (2008-). Fellow ACLE.
Van Cayseele, P.J.G. (2008-), Vice Dean Research Affairs, KULeuven

Editor or member of editorial board

Hinloopen, J. and Normann, H.-T. (eds.)(2009), *Experiments and Competition Policies*, Cambridge: Cambridge University Press.
Hinloopen, J. (2009), Editorial Board Member, *Review of Industrial Organization*.
Patrick Van Cayseele is Editorial Board Member of *Review of Business and Economics* and the *Tijdschrift voor Belgische Mededinging – Revue de la Concurrence Belge*

Referee activities

Hinloopen, J. (2009). Referee for *Journal of Industrial Economics*, *Journal of the European Economic Association*, *Journal of International Trade & Economic Development*, *Journal of Economics*, *Journal of Regional Science*, *Review of Economic Studies*, and *The B.E. Journal of Theoretical Economics*.
Onderstal, S. (2009). Referee for *Annals of Operations Research*, *Economic Theory*, *Experimental Economics*, *Games and Economic Behavior*, *International Journal of Industrial Organization*, and *Journal of Public Economic Theory*.
Seldeslachts, J. (2009). Referee for *Journal of Industrial Economics*, *Southern Economic Journal*, *Spanish Economic Review*
Soetevent, A. R. (2009). Referee for *Experimental Economics*, *International Journal of Industrial Organization*, *Journal of Economic Behavior and Organization*, *Journal of Economic Dynamics and Control*, *Papers in Regional Science*
Van Cayseele, P.J.G. (2009), Referee for *Journal of Money, Credit and Banking*, *Journal of Banking and Finance*.

Membership of academic committees (including Ph.D. committees outside the FEB)

Van Cayseele, P.J.G. Chairman of the Scientific Commission “Economie en Bedrijfskunde” of the Funds for Scientific Research Flanders (FWO).

Research contributions in the media

Hinloopen, J. (2009), interview in *De Volkskrant*.

Various activities

Soetevent, A. R. (2009) Academic Referee for The Netherlands Bureau of Economic Policy Analysis (CPB).
Felsö, F.A. (2009) Member of the supervisory committee research project "Eindevaluatie mediation monitor" carried out by the Research and Documentation Center of the Dutch Ministry of Justice (WODC).
Onderstal, S. (2008) Board member CentER Society (alumni society Ph.D. students CentER, Tilburg University).
Van Cayseele, P (2008) Member of the scientific commission “Economie en Bedrijfskunde” of the Funds for Scientific Research Flanders (FWO).
Soetevent, A. R. (2008) Referee Peccei and Mikhalevich Awards
Soetevent, A. R. (2008) External referee PhD project proposal Utrecht University.
Soetevent, A. R. (2008) Referee Spring Meeting for Young Economists 2008, Lille, France.

CHAPTER 11: OTHER RESEARCH ECONOMICS

Department: Economics
METIS-code: uva/fee/res/ore/prog

11.1 MEMBERS OF THE RESEARCH GROUP AND RESEARCH IN FTES

<i>Name</i>	<i>Title</i>	<i>Function</i>	<i>Total 2006</i>	<i>Total 2007</i>	<i>Total 2008</i>	<i>Total 2009</i>	<i>Dept.</i>	<i>Funding</i>
Carchedi, G.	dr	guest	-	-	-	0,00	AE	1
Catalan Aravena, O.	dr	docent	-	-	-	0,13	AE	1
Gerxhani, K.N.	dr	guest	-	-	-	-	AE	1
Hollanders, D.A.	drs	phd	-	-	0,45	-	AE	3
Knaack, R.K.	dr	guest	-	-	-	0,00	AE	1
Lammers, J.	dr	postdoc	-	-	1,00	-	AE	3
Odink, J.G.	dr	uhd	-	-	0,08	0,08	AE	1
Pott-Buter, H.A.	dr	hd	0,00	0,00	0,00	0,00	AE	1
Schouwstra, M.C.	dr	guest	-	-	-	0,00	AE	1
Simatupang, B.N.	dr	guest	0,00	0,00	0,00	0,00	AE	1
Teulings, C.N.	prof dr	hgl	0,13	0,20	0,20	-	AE	1
Tijdens, K.G.	dr	oz	-	-	0,30	0,30	AE	1
Tijdens, K.G.	dr	oz	-	-	0,50	0,50	AE	2
Thio, K.B.T.	dr	docent	-	-	-	0,00	AE	1
Voort, R.C.W. van der	drs	docent	0,00	0,00	0,00	0,00	AE	1
Vermeulen, K.	dr	ud	-	-	-	0,00	AE	1
Wahab, I.	dr	guest	0,00	0,00	0,00	0,00	AE	1
Total 1st flow of funds			0,13	0,20	0,58	0,51		
Total 2nd flow of funds			0,00	0,00	0,50	0,50		
Total 3rd flow of funds			0,00	0,00	1,45	0,00		
Total 1st f.o.f. excl. Ph.D.'s			0,13	0,20	0,58	0,96		
Total all flows of funds			0,13	0,20	2,53	1,01		
Ph.D. students			0,00	0,00	0,45	0,00		

11.2 OUTPUT

Publications in Numbers

<i>AE-Overig</i>				<i>2009</i>
1) Academic publications	a) in refereed journals	A	-	
		B	-	3
		C	3	
	b) in other journals			2
		c) book chapters	A	-
		B	-	3
		C	3	
	d) proceedings	Other		2
	Total			10
	2) Monographs		A	-
		B	-	0
		C	-	
3) Ph.D. theses			2	
4) Professional publications			1	
5) Popular publications			4	
6) Working papers			22	
Total			39	

Forthcoming

- De Pedraza, P., Tijdens, K.G., Muñoz de Bustillo, R., Steinmetz, S. (2010) A Spanish Continuous Voluntary Web Survey: Sample Bias, Weights and Efficiency of Weights. Forthcoming in *Revista Española de Investigaciones Sociológicas*.
- Klaveren, M. van, W. Salverda, K.G. Tijdens (2010) Retail jobs in the Netherlands Low pay in a context of long-term wage moderation. Forthcoming in *Industrial Relations Journal*.
- Tijdens, K.G. (2010) Women in management – The Netherlands. Book chapter forthcoming in Marilyn J Davidson and Ronald Burke (eds.) *Women in Management – Progress and Proposals (Vol II)*, Gower, Farnham.

Dissertations

- Schreuder, K. (2009, 10 February). *Trade Unions and the Work-Family Balance*. Universiteit van Amsterdam. [promotor prof. dr J. Visser, co-promotor K.G. Tijdens] [cat. IV].
- Guerriero, C. (2009). *Endogenous Legal Systems: Theory and Evidence*. University of Cambridge. [Promotor: dr. Toke Aidt.] [cat. IV].

Academic publications (excluding publications in/of books) – refereed

Other

- Klaveren, M. van, W. Salverda, K.G. Tijdens 2009 "Retail jobs in the Netherlands: Low pay in a context of long-term wage moderation". *Industrial Labour Review*, 48(4), 413-438.
- Timmers, T., T.M. Willemsen, K.G. Tijdens (2009) Gender diversity policies in universities: a multi-perspective framework of policy measures, *Higher Education*, DOI 10.1007/s10734-009-9276-z, Published online 13 October 2009.
- Tijdens, K.G. (2009) Het meten van beroepen in web-surveys. Ontwerp van een zoekboom., *Tijdschrift voor Arbeidsvraagstukken*, 24, (4), pp 474-486.

Academic publications (excluding publications in/of books) – non-refereed

- Bernard van Praag, Kea Tijdens, Jacques Allegro en Paulien Osse (2009) Het zelfbeeld van de oudere werknemer, *Economisch Statistische Berichten*, 94(4559) 1 mei 2009.
- John Lorie en Boe Thio, "Dure dollar door kredietcrisis", *Economisch Statistische Berichten*, 94(4557), 3 april 2009, pp 198-201.

Academic publications (in/of books) – non-refereed

- Van Klaveren, M., K.G. Tijdens (2009) Cuestiones para la negociación en Europa: un estudio comparativo entre países y sectores, Brussels, ETUI-REHS.
- Van Klaveren, M., K.G. Tijdens (2009) Kollektivverhandlungen in Europa – Ein Vergleich von Ländern und Wirtschaftszweigen, Brussels, ETUI-REHS.
- Van Klaveren, M., K.G. Tijdens (2009) A kollektív alku kérdésköre Európában: Országok és ágazatok összehasonlítása, Brussels, ETUI-REHS.

Academic publications (working- and discussion papers)

- Guerriero, C. (2009). Democracy, Judicial Attitudes and Heterogeneity: the Civil Versus Common Law Tradition. CWPE # 0917.
- Guerriero, C. (2009). Accountability in Government and Regulatory Policies: Theory and Evidence. IEF Working Papers, 24, 2009.
- Klaveren, M. van, Tijdens, K., Hughie-Williams, M., Ramos Martin, N. (2009) An Overview of Women's Work and Employment in Mozambique., AIAS Working Paper 09-77 Decisions for Life Country Report, University of Amsterdam.

Other Research
Economics

- Klaveren, M. van, Tjidsens, K., Hughie-Williams, M., Ramos Martin, N. (2009) An Overview of Women's Work and Employment in Angola., AIAS Working Paper 09-78 Decisions for Life Country Report, University of Amsterdam.
- Klaveren, M. van, Tjidsens, K., Hughie-Williams, M., Ramos Martin, N. (2009) An Overview of Women's Work and Employment in South Africa., AIAS Working Paper 09-79 Decisions for Life Country Report, University of Amsterdam.
- Klaveren, M. van, Tjidsens, K., Hughie-Williams, M., Ramos Martin, N. (2009) An Overview of Women's Work and Employment in Zambia., AIAS Working Paper 09-80 Decisions for Life Country Report, University of Amsterdam.
- Klaveren, M. van, Tjidsens, K., Hughie-Williams, M., Ramos Martin, N. (2009) An Overview of Women's Work and Employment in Botswana., AIAS Working Paper 09-81 Decisions for Life Country Report, University of Amsterdam.
- Klaveren, M. van, Tjidsens, K., Hughie-Williams, M., Ramos Martin, N. (2009) An Overview of Women's Work and Employment in Malawi., AIAS Working Paper 09-82 Decisions for Life Country Report, University of Amsterdam.
- Klaveren, M. van, Tjidsens, K., Hughie-Williams, M., Ramos Martin, N. (2009) An Overview of Women's Work and Employment in Brazil., AIAS Working Paper 09-83 Decisions for Life Country Report, University of Amsterdam.
- Steinmetz, S., Tjidsens, K.G., De Pedraza, P. (2009) Comparing different weighting procedures for volunteer online panels - Lessons to be learned from German, Dutch and Spanish Wage indicator data, AIAS Working Paper 09-76, University of Amsterdam.
- Chung, H. & K.G. Tjidsens (2009) Working time flexibility components of companies in Europe, AIAS Working Paper 09-84, University of Amsterdam.
- Tjidsens, K.G. & M. van Klaveren (2009) Multinationals versus Domestic Firms: Wages, Working Hours and Industrial Relations, AIAS Working Paper 09-85, University of Amsterdam.
- Tjidsens, K.G. (2009) Update of the underlying principles of the Database of Occupations of the EurOccupations project, EurOccupations Deliverable D01a1, Erasmus University Rotterdam.
- Tjidsens, K.G., J. Jacobs (2009) The EurOccupations Database of Occupations, EurOccupations Deliverable D01b1, Erasmus University Rotterdam.
- Tjidsens, K.G. (2009) Frequency tables: gender distributions at aggregated occupation levels per country, EurOccupations Deliverable D01d, Erasmus University Rotterdam.
- Tjidsens, K.G. (2009) Frequency tables: education distributions at aggregated occupation levels per country, EurOccupations Deliverable D01e, Erasmus University Rotterdam.
- Tjidsens, K.G. (2009) Frequency tables: age group distributions at aggregated occupation levels per country, EurOccupations Deliverable D01f, Erasmus University Rotterdam.
- Tjidsens, K.G., J. Jacobs (2009) Manual for surveys using the Database of Occupations of the EurOccupations project, EurOccupations Deliverable D25, Erasmus University Rotterdam.
- Tjidsens, K.G., J. Jacobs (2009) A test of the usefulness of the EUROCCUPATIONS database for self-administered computer-based questionnaires, EurOccupations Deliverable D24, Erasmus University Rotterdam.
- Smetser, H.J. Jacobs, K. Tjidsens, C. da Luz Fortes (2009) A facility to search the web-based database, EurOccupations Deliverable D02, Erasmus University Rotterdam.
- Vermeulen, K. (2009). *A Perturbation of the Stochastic Growth Model with a First-Order Effect of Precautionary Saving*. Universiteit van Amsterdam.
- Vermeulen, K. and Roder van Arkel (2009). *Capital Durability and the Interest Rate in a Multiple Equilibria Model*. Universiteit van Amsterdam.

Professional publications

- Steinmetz, S., Tjidsens, K.G. (2009) Can weighting improve the representativeness of volunteer online panels? Insights from the German Wage indicator data, C&M Newsletter, Vol 5, 1, 7-11.

Popular publications

- Tjidsens, K.G. & M. van Klaveren (2009) CAO dekkingsgraad, Zeggenschap, 20, (1), 39.

Other Research
Economics

- Tijdens, K.G. & M. van Klaveren (2009) Privatisering, *Zeggenschap*, 20, (32), 46.
Tijdens, K.G. & M. van Klaveren (2009) Reorganisaties, *Zeggenschap*, 20, (3), 49.
Tijdens, K.G. & M. van Klaveren (2009) Vrouwen en deeltijdarbeid, *Zeggenschap*, 20, (4), 43.

Contributions to academic conferences, workshops and seminars

- Guerriero, C. (2009). *Democracy, Judicial Attitudes and Heterogeneity: the Civil Versus Common Law Tradition*. Bank of Italy; OxCarre, University of Oxford; ACLE, University of Amsterdam; IGIER, Bocconi University; Paris Nanterre.
- Guerriero, C. (2009). [*The Political Economy of Incentive Regulation: Theory and Evidence from US States*](#). IEFÉ, Bocconi University.
- Guerriero, C. (2009). *Democracy, Judicial Attitudes and Heterogeneity: the Civil Versus Common Law Tradition*. Royal Economic Society annual meeting, University of Surrey; American Law and Economics Association annual meeting, University of California at San Diego; EEA annual meeting, Pompeu Fabra University.
- Guerriero, C. (2009). [*The Political Economy of Incentive Regulation: Theory and Evidence from US States*](#). “To Enforce and Comply: Incentives Inside Corporation and Agencies”, ACLE, Amsterdam; EEA annual meeting, Pompeu Fabra University.
- Tijdens, K.G. (2009) 06-Feb-09, Measuring IR in the EU: concepts and outcomes using WageIndicator web-survey data , Amsterdam, NL, U Amsterdam, AIAS, Paper presentation at the Industrial Relations in Europe 2008 Report seminar.
- Tijdens, K.G., E. de Ruijter (2009) 20-Feb-09, EurOccupations and the World Database of Occupations , Brussels, BE, EurOccupations, EU DG Employment, Paper presentation at the Occasional seminar: Employment in Europe DG Employment, Social Affairs and Equal Opportunities.
- Klaveren, M. van, Tijdens, K.G. (2009) 08-Mar-09, The Impact of Foreign Direct Investment on Wages in Seven EU Member States, Edinburgh, UK, Paper presentation at the 27th ILPC conference
- Tijdens, K.G., J. Jacobs (2009) 24-Apr-09, The Database of Occupations , Brussels, BE, EurOccupations, EU, Paper presentation at final EurOccupations conference.
- Tijdens, K.G. (2009) 25-Jun-09, Webbasierte Befragung – Konzept und Durchführung des WageIndicator-Surveys, Dusseldorf, DE, WSI, WSI, Paper presentation at Wissenschaftlicher Workshop Webbasierte Befragungen Erfahrungen, Probleme, Perspektiven am Beispiel von WageIndicator und LohnSpiegel.
- Steinmetz, S., Tijdens, K.G., De Pedraza, P. (2009) 03-Jul-09, Comparing different weighting procedures for volunteer online panels, Warschau, PL, ESRA, -, Paper presentation at ESRA conference.
- Klaveren, M. van, Tijdens, K.G., Ramos Martin, N. (2009) 09-Jul-09, Decent work and decent life for women in Southern Africa, Geneva, SW, ILO, Paper presentation at the Conference on Regulating for Decent Work.
- Klaveren, M. van, Tijdens, K.G. (2009) 10-Jul-09, Multinationals versus Domestic Firms: Wages, Working Hours and Industrial Relations, Geneva, SW, ILO, Paper presentation at the Conference on Regulating for Decent Work.
- Tijdens, K.G., M. van Klaveren (2009) 24-Jul-09, The relationship between TU membership and collective bargaining in 12 countries, Amsterdam, NL, U Amsterdam, AIAS, Paper presentation at the Traleg Equalsoc workshop.
- Tijdens, K.G., M. van Klaveren (2009) 25-Aug-09, Brief introduction on collective agreements in the Netherlands, Amsterdam, NL, U Amsterdam, AIAS, Paper presentation at the WSI - AIAS Extension workshop.
- Tijdens, K.G. (2009) 25-Sep-09, The WISCO Database of Occupations, Ljubljana, SL, Paper presentation at the DECOWE conference.
- Steinmetz, S., Tijdens, K.G. (2009) 03-Oct-09, Comparing different weighting procedures for volunteer online panels, Amsterdam, NL, U Amsterdam, AIAS, Paper presentation at AIAS lunch seminar
- Tijdens, K.G. (2009) 05-Nov-09, Working Part-time in seven EU member states, Amsterdam, NL, U Amsterdam, Paper presentation at the International Conference on increasing female labour participation 24orMore.
- Tijdens, K.G. (2009) 17-Nov-09, The international WageIndicator data on work and wages, Bonn, DE, Paper presentation Red Cube Seminar IZA Bonn.

Other Research

Economics

Sandra Groeneveld, Kea Tijdens, Daphne van Kleef (2009) 25-Nov-09, The gender difference in promotion probabilities, Rotterdam, NL, EUR, Paper presentation EUR staff.

Steinmetz, S., Tijdens, K.G., De Pedraza, P. (2009) 18-Dec-09, Comparing different weighting procedures for volunteer online panels, Rotterdam, NL, EUR, Paper presentation FSW staff.

Other lectures on research

Tijdens, K.G. (2009) 18-Feb-09, De markt voor persoonlijke dienstverlening, Rotterdam, NL, Fenn.

Organisational contributions to conferences, workshops and seminars

Tijdens, K.G., Final conference FP6 EurOccupations project, Brussels, 23-Apr-09, 24-Apr-09.

Participation in academic networks & fellowships

Vermeylen, K. (2009) Affiliate Member of the Sloan Industry Studies Program of the Alfred P. Sloan Foundation (New York, U.S.).

Vermeylen, K. (2009) Affiliate Member of Center for Industry Studies at the University Pittsburgh (Pittsburgh, U.S.).

Editor or member of editorial board

Thio, K.B.T. (2009) Editor, TPEdigitaal.

Referee activities

Tijdens, K.G. (2009). Referee for Journal of European Social Policy, Tijdschrift voor Arbeidsvraagstukken.

Thio, K.B.T. (2009) Referee for Journal of Income Distribution.

Various activities

Tijdens, K.G. (2009). Advisor/expert for OECD's PIAAC-survey on literacy, to be held in 2011.

Tijdens, K.G. (2009). Advisor/expert for the 5th European Survey on Working Conditions, to be held in 2010.

CHAPTER 12: SEO ECONOMIC RESEARCH

<i>Subprogrammes:</i>	<i>Labour Economics & Education</i>
	<i>Health Economics & Social Security</i>
	<i>Regulation & Competition Policy</i>
	<i>Aviation Economics</i>
	<i>Regions, Business and Infrastructure</i>
<i>Programme Director:</i>	<i>Prof. dr. J.J.M Theeuwes</i>
<i>METIS-code:</i>	<i>uva/fee/seo/seo/prog</i>
<i>JEL-classification:</i>	<i>I, J, L, Q, R</i>
<i>Web-address:</i>	<i>www.seo.nl</i>
<i>VSNU-scores: 2001-2007:</i>	<i>Quality: -, Productivity: -, Relevance: -, Viability: -</i>

12.1 MEMBERS OF THE RESEARCH GROUP AND RESEARCH IN FTES

<i>Name</i>	<i>Title</i>	<i>Function</i>	<i>Total 2006</i>	<i>Total 2007</i>	<i>Total 2008</i>	<i>Total 2009</i>	<i>Dept.</i>	<i>Funding</i>
Scientific Staff SEO								
Baarsma, B.E.	dr	oz	1,00	1,00	1,00	1,00	SEO	3
Grand, J.B. Le	dr	oz	-	-	0,71	0,71	SEO	3
Theeuwes, J.J.M.	prof dr	hgl	0,18	0,60	0,60	0,50	SEO	3
Regulation & Competition Policy								
Aalbers, R.F.A.	dr	oz	1,00	0,83	-	-	SEO	3
Bremer, S.	drs	oz	0,55	1,00	1,00	-	SEO	3
Buiren, K.B.	drs	oz	0,40	0,71	0,71	-	SEO	3
Buiren, K.B.	drs	oz	-	0,24	0,24	-	SEO/AE	1
Janssen, K.	drs	oz	-	0,80	0,63	0,42	SEO	3
Leenheer, J.	drs	oz	-	-	0,84	-	SEO	3
Leffelaar-Felsö, F.A.	drs	oz	0,60	0,60	0,15	-	SEO	3
Leffelaar-Felsö, F.A.	drs	phd	0,40	0,40	0,06	-	SEO/AE	1
Geffen, S. van	mr	oz	0,20	-	-	-	SEO	3
Gerritsen, M.	drs	oz	0,70	0,95	0,95	0,31	SEO	3
Nooij, M.N. de	drs	oz	1,00	1,00	1,00	0,80	SEO	3
Poort, J.	drs	oz	0,84	0,84	1,00	1,00	SEO	3
Tieben, L.A.W.	drs	oz	-	-	0,47	0,84	SEO	3
Weda, J.N.T.	drs	oz	-	0,44	1,00	1,00	SEO	3
Regions & Transport								
Hof, B.J.F.	drs	oz	0,60	-	-	-	SEO	3
Koopmans, C.C.	prof dr	hgl	0,67	-	-	-	SEO	3
Korteweg, J.A.	drs	oz	1,00	-	-	-	SEO	3
Lieshout, R.B.T.	drs	oz	1,00	-	-	-	SEO	3
Rosenberg, F.A.	drs	oz	0,84	0,14	-	-	SEO	3
Vegt, C. van der	drs	oz	0,60	0,60	0,20	-	SEO	3

SEO Economic Research - Theeuwes

<i>Name</i>	<i>Title</i>	<i>Function</i>	<i>Total 2006</i>	<i>Total 2007</i>	<i>Total 2008</i>	<i>Total 2009</i>	<i>Dept.</i>	<i>Funding</i>
Labour Economics & Education								
Berg, E. van den	drs	oz	-	0,33	1,00	1,00	SEO	3
Berkhout, E.E.	drs	oz	1,00	1,00	1,00	1,00	SEO	3
Berkhout, P.H.G.	dr	oz	0,95	0,16	0,08	-	SEO	3
Biermans, M.C.	drs	oz	1,00	0,28	-	-	SEO	3
Budil-Nadvorníková, H.M.	ir	oz	0,60	0,60	0,60	-	SEO	3
Graaf, D. de	drs	oz	1,00	1,00	1,00	0,84	SEO	3
Graaf-Zijl, M. de	drs	phd	-	-	-	-	SEO/AE	1
Graaf-Zijl, M. de	dr	oz	1,00	1,00	0,08	-	SEO	3
Heyma, A.O.J.	dr	oz	0,92	1,00	1,00	1,00	SEO	3
Klaveren, C.P.B.J.	drs	oz	0,50	1,00	1,00	0,08	SEO	3
Leeuwen, M.J. van	drs	oz	0,25	-	-	-	SEO	3
Smits, F.	drs	oz	-	0,49	-	-	SEO	3
Werff, D.G. van der	drs	oz	-	-	0,50	1,00	SEO	3
Health Economics & Social Security								
Alla, A.	ba	oz	-	0,33	0,70	-	SEO	3
Berden, C.B.	dr	oz	-	-	0,25	1,00	SEO	3
Berkhout, P.H.G.	dr	oz	0,79	-	-	-	SEO	3
Groot, C.M.E.	drs	oz	0,84	0,75	-	-	SEO	3
Heyma, A.O.J.	dr	oz	0,08	-	-	-	SEO	3
Hollanders, D.A.	drs	oz	0,20	0,10	-	-	SEO	3
Hollanders, D.A.	drs	phd	0,48	0,48	-	-	AE	3
Hop, P.J.		oz	0,84	0,63	0,63	0,63	SEO	3
Kok, L.M.	drs	oz	0,84	0,88	0,88	0,84	SEO	3
Sadiraj, K.	dr	oz	0,79	-	-	-	SEO	3
Sluis, J. van der	drs	oz	0,33	0,37	-	-	SEO	3
Tempelman, D.C.G.	drs	oz	-	-	0,33	1,00	SEO	3
Industrial Economics								
Berg, M. van den	drs	oz	1,00	1,00	0,84	0,84	SEO	3
Buiren, K.B.	drs	oz	0,48	-	-	-	SEO	3
Dorenbos, R.J	drs	oz	-	-	0,71	-	SEO	3
Gietema, B.G.	drs	oz	0,63	0,05	-	-	SEO	3
Holleman, J.	drs	oz	0,84	0,84	0,21	-	SEO	3
Leenheer, J.	dr	oz	0,50	0,84	-	-	SEO	3
Risseeuw, P.R.	drs	oz	1,00	1,00	1,00	1,00	SEO	3
Sheikh, O.	msc	oz	-	0,61	1,00	0,66	SEO	3
Tewes, F.W.	drs	oz	-	-	-	0,71	SEO	3
Aviation Economics								
Burghouwt, G.	dr	oz	1,00	1,00	1,00	1,00	SEO	3
Heemskerk, L.C.H.	drs	oz	1,00	-	-	-	SEO	3
Lieshout, R.B.T.	drs	oz	-	1,00	1,00	1,00	SEO	3
Pelger, M.	drs	oz	0,25	-	-	-	SEO	3
Veldhuis, J.G.	drs	oz	1,00	1,00	1,00	0,84	SEO	3
Wit, J. de	prof drs	hgl	0,80	0,80	0,80	0,80	SEO	3
Yilmaz, H.	drs	oz	-	-	-	1,00	SEO	3
Zuidberg, J.	msc	oz	-	0,35	1,00	1,00	SEO	3
SEO Bijzonder Hoogleraren								
Dustmann, C.	prof dr	hgl	0,03	-	-	-	SEO	3
Emmer, P.C.	prof dr	hgl	0,03	-	-	-	SEO	3
			Total 2006	Total 2007	Total 2008	Totaal 2009		
Total 1st flow of funds			0,40	0,64	0,30	0,00		
Total 2nd flow of funds			0,00	0,00	0,00	0,00		
Total 3rd flow of funds			32,41	28,40	27,87	23,82		
Total 1st f.o.f. excl. Ph.D.'s			0,00	0,24	0,24	0,00		
Total all flows of funds			32,81	29,04	28,17	23,82		
Ph.D. students			0,88	0,88	0,06	0,00		

12.2 PROGRAMME DESIGN

SEO Economic Research was founded in 1949, as a research institute of the Faculty of Economics at the University of Amsterdam, to encourage applied research. Since the 1980s it has been legally independent from the university, while retaining close links with the academic community. SEO carries out contract research for ministries and public organizations, private companies and non-profit institutions, nationally and internationally. SEO distinguishes itself from other research bureaus by its analytical approach. Modern economic analysis is applied to practical issues. Empirical questions are tackled with the econometrics toolkit. SEO is not linked to vested interests or political parties and research questions are approached with an independent scientific mindset. SEO Economic Research is a medium-sized horizontal organisation. It has an academic staff of about 50 economists and econometricists. When a research question has multiple dimensions SEO can call upon specialists from other disciplines – often from within the University of Amsterdam - such as the Amsterdam Institute for Advanced Labour Studies (AIAS) and the Institute for Information Law (IViR).

Structure

SEO Economic Research consists of five research groups or sections organised along fields of economic research. A first section is *Labour Economics & Education* which specialises in labour market, labour market policy, schooling and training research. Research topics deal with employability, transition from school to work, temporary work, re-integration and exit from unemployment, wage differentials, employment benefits, migration, schooling and work and the evaluation of educational policies.

The section *Health Economics & Social Security* analyses developments in healthcare and social security, with research often shaped by the highly regulated nature of these two sectors. This section specialises among others in market analyses, effectiveness and cost-benefit studies and budgeting and costing systems.

Research in the section *Regulation & Competition Policy* concentrates on the design, analysis and evaluation of competition and government intervention. The section deals with issues related to the structure, conduct and performance of markets and sectors, regulation and deregulation, economic aspects of cartels, mergers, market dominance and other topics in the field of competition. It assesses new or established regulations and policy from the perspective of law and economics.

The section *Regions, Business and Infrastructure* integrates three fields. It has a regional economics component which concentrates on issues of regional growth, employment and productivity issues, local labour markets and regional mobility. Starting with the question of how companies relate to others within their own industry the section on Economic Sectors combines findings obtained from research at the sector and individual company levels. The structure of a business sector is thereby mapped such that sector relevant issues can be analysed. The infrastructure component evaluates public investments using a cost benefit approach, .

Aviation Economics is a section specializing in aviation economics. It advises governments, airlines, airports, financial institutions and other interested parties on the economic issues related to aviation. Aviation Economics activities include operations research, econometric analyses and forecasting, feasibility studies and research into competition and market issues, as well as work in transport and regional economics.

Organisation

SEO Economic Research is governed by a six-member Executive Board. Day-to-day policy is in the hands of the general director and the scientific director and of the management team, which consists of both directors and the section heads. SEO Economic Research also has an Advisory Board which meets yearly to review its research programme.

12.3 PROGRAMME EVALUATION

Academic publications made by researchers at SEO Economic Research are usually a spin-off from

contract research which is SEO's core activity. This year 18 articles in refereed journals were published plus 1 refereed book publication. The number of non-refereed academic publications was large.

SEO Economic Research also creates a stimulating environment for Ph.D. research. Like in previous years, a thesis was defended successfully by one of SEO's contract researchers. Overall, academic output has remained fairly constant over the years.

In 2009, Dr. Hidenobu Matsumoto from Kobe University, Japan, stayed 3 months (March, August and September) with SEO Economic Research, section Aviation Economics for his study related airports and airlines. He was granted a scholarship by the Murata Science Foundation, Japan. Dr. Matsumoto did write several papers with the researchers of the section as a result of this stay. Pere Suau Sanchez from the Autonomous University of Barcelona stayed from September to December 2009 as a guest researcher at the aviation section of SEO Economic Research. He carried out research on connectivity developments in the Spanish airport system and catchment area measurement of European airports. His work is part of his PhD research on airports and regions. His stay at was funded by the Spanish Ministry of Science.

12.4 RESOURCES AND FUNDING

SEO Economic Research has set up an internal fund for scientific research (WEO) which allots time to researchers which enables them to prepare papers for scientific publications and to participate in economic conferences. This fund has also a provision to finance time spend on preparing a doctoral dissertation. Researchers publish regularly in national and international professional journals. Only by publishing and lecturing, a research institute stays 'alert' and keeps abreast of the newest developments in applied economic research. Core activity is contract research and the majority of research funding originates from contract parties.

SEO holds an NEN-EN ISO 9001:2000 quality certificate for Applied Economic Research and Consulting.

12.5 OUTPUT

Key Publications

- Baarsma, B.E. & Hop, J.P. (2009). Pricing power outages in the Netherlands. *Energy*, 34, (9), 1378-1386. 1386 [an earlier version is available as SEO Discussion paper 41, Valuation of the Quality of the Electricity Grid - Power outages have a price too, 2005] [B]
- Nooij, M. de, Lieshout, R. & Koopmans, C. (2009). Optimal blackouts: Empirical results on reducing the social cost of electricity outages through efficient regional rationing. *Energy Economics*, 31, (3), 342-347. [B]
- Baarsma, B., Nooij, M. de, Koster, W. & Weijden, C. van der (2007). Divide and rule: the economic and legal implications of the proposed ownership unbundling of distribution and supply companies in the Dutch electricity sector. *Energy Policy*, 35, (3), 1785-1794. [B]
- Baarsma, B.E. & Theeuwes, J.J.M. (2009). Publiek belang en marktwerking: argumenten voor een welvaartseconomische aanpak. in: E. van Damme en M.P. Schinkel (red.), *Marktwerking en publiek belang: Preadviezen 2009*, (pp. 23-51). Amsterdam: Koninklijke Vereniging voor de Staathuishoudkunde. [B]
- Burghouwt, G. (2007). Airline network development in Europe and its implications for airport planning. Aldershot, Hampshire: Ashgate.
- Nooij, M. de & Baarsma, B. (2009). Divorce comes at a price: An ex ante welfare analysis of ownership unbundling of the distribution and commercial companies in the Dutch energy sector. *Energy Policy*, 37, (12), 5449-5458. [B]
- Nooij, M. de, Koopmans, C. & Bijvoet, C. (2007). The value of supply security, the cost of power interruptions: economic input for damage reduction and investment in networks. *Energy Economics*, 29, (1), 277-295. [B]

Forthcoming

- Baarsma, B.E. (2009). Tien jaar marktwerking in het notariaat: een terug- en vooruitblik. Forthcoming in *Kwartaalschrift Economie*, 6, (3), Due in 2010. [C]
- Burghouwt, G. & Redondi, R. (2009). Connectivity in air transport networks: models, measures and applications. Forthcoming in *Transport Research*. Due in 2010.
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Publications in numbers

SEO				2009
1) Academic publications	a) in refereed journals	A	-	
		B	6	18
		C	12	
	b) in other journals			93
	c) book chapters	A	-	
		B	-	4
		C	1	
		Other	3	
	d) in proceedings	Other		5
Total				120
2) Monographs		A	-	
		B	-	0
		C	-	
		Other	-	
3) Ph.D. theses				2
4) Professional publications				3
5) Popular publications				6
6) Working papers				3
Total				134

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- Baarsma, B. & Theeuwes, J. (2009). Het mes, de markt en de moraal. *Topics*, 13, (2), 3.
- Graaf, D. de & Volkerink, M. (2009). Eerlijke kans op carrière. *Didaktief*, 39, (10), 13.
- Koopmans, C. (2009). Knullige beleidsvoorbereiding. *Topics*, 13, (2), 16.
- Theeuwes, J. (2009). Vrouwen en kinderen eerst. *Topics*, 13, (1), 3.
- Theeuwes, J. (2009). Ouderen en de economische crisis. *Gerón, Tijdschrift over ouder worden & samenleving*, 11, (2), 59-61.
- Tieben, B. (2009). Allemaal kleine Scheringaatjes. *Vrij Nederland*, 70, (49), 62-63.

Contributions to academic conferences, workshops and seminars

- Baarsma, B. (2009, 1 July). *De nieuwe postmarkt, een eerlijke postmark?* Nationale postconferentie. WTC Rotterdam.
- Baarsma, B. (2009, 8 October). *Herijking van het kartelverbod: Enkele gedachten vanuit economisch perspectief*. Lezing op het 7^{de} jaarcongres 'Ontwikkelingen Mededingingsrecht 2009'. Scheveningen.
- Baarsma, B. (2009, 8 October). *Maakbaarheid vraagt om weerbaarheid*. Tweede Verwey-Jonker/SER Lezing. Den Haag.

- Baarsma, B. (2009, 15 October). *Verticale integratie tussen zorgverzekeraars en zorgaanbieders*, Lezing op het congres 'Coöperaties en verticale integratie in de zorg'. Nijmegen.
- Baarsma, B. (2009, 5 November). *Kroonverjaardag marktwerking in het notariaat. Tijd voor een feestje?* Symposium van de Stichting tot Bevordering van der Notariële Wetenschap. Marktwerking in het notariaat: droom of nachtmerrie? Aula van Universiteit van Amsterdam.
- Berg, M. van den (2009, 23 September). *The relative performance of 'sheltered employment' companies: a multi-stage approach*. 5th Conference on Performance Measurement and Management Control, Nice, France.
- Berkhout, E., Dorenbos, R., Girigorie, L. & Kotzebue, Ch. (2008, 1 December). *Turistika: model scenario's 2008-2012 (part IV)*. Workshop Willemstad, Curaçao.
- Burghouwt, G. (2009, 17 March). *The competitive position of Spanish and Catalan airports*. Seminar Airports and Territory, Universidad Autonoma de Barcelona, Spain.
- Burghouwt, G. (2009, 7 May). *How to measure the competitive position of airports in the global aviation network?* Aeroports de Catalunya, Spain.
- Burghouwt, G. (2009, 9 June). *Amsterdam Aviation Economics, the air transport section of SEO Economic Research*. Bird & Bird, Brussels, Belgium.
- Burghouwt, G. (2009, 6 November). *The economic potential for de-peakng at hub airports*. ASDA seminar TU Delft, Delft.
- Eijk, N. van & Poort, J. (2009, 5 June). *Economic and legal aspects of file sharing in the Netherlands*. Workshop on Competition Policy and Regulation In Media Markets: Bridging Law and Economics. Tilec. Tilburg.
- Heyma, A. (2009, 5 November). *Kosten en baten voor de Nederlandse overheid van oost-europese arbeidsmigranten*. Jubileumcongres SEO Economisch Onderzoek. Amsterdam.
- Kok, L. (2009, 5 November). *Kosten en baten van revalidatie*. Jubileumcongres SEO Economisch Onderzoek. Amsterdam.
- Koopmans, C.C. (2009, 5 November). *Maatschappelijke kosten-baten analyse: Too little, too late?* Jubileumcongres SEO Economisch Onderzoek. Amsterdam.
- Leenheer, J. & Kleijnen, M. (2008, 30 May). *How promotional e-mail can make or break business relationships: the role of consumer evaluations and relationship length*. EMAC (European Marketing Conference), Brighton, UK.
- Matsumoto, H. (2008). *Air Network Performance and Hub Competitive Position: Evaluation of Primary Airports in East and Southeast Asia*. The 7th Conference on Applied Infrastructure Research. 10-11 October 2008, Berlin, Germany.
- Matsumoto, H. (2009). *Estimation of route choice probabilities and market shares at major hub airports with regard to passengers departing from Japan*. 13th Conference ATRS (Air Transport Research Society), Abu Dhabi (UAE), 27-30 June 2009.
- Matsumoto, H. (2009). *A Measuring Transfer Passenger Shares at Hub Airports: An Application to Passengers departing from Japan*. The 8th Conference on Applied Infrastructure Research. 9-11 October 2009, Berlin, Germany.
- Noll, R. van der (2009, 21 September). *Pricing power outages in the Netherlands*. Workshop on research design for customer interruption cost assessment, Oslo, Norway.
- Noll, R. van der (2009, 13 November). *Economische kijk op "de volgende editie". Alleen papier is een probleem?* Presentation for Vereniging voor Media- en Communicatierecht. Amsterdam.
- Poort, J. (2009, 22 June). *File Sharing and its impact on business models in Music*. Berlin Open, Berlin.
- Poort, J. (2009, 5 November). *Baten in cultuur en erfgoed*. Jubileumcongres SEO Economisch Onderzoek. Amsterdam.
- Suau-Sanchez, P. (2009, 22 March). *The Spanish airport system: connectivity levels and competitive position, 2001-2007*. 105th Association American Geographers Meeting. Las Vegas, USA.
- Theeuwes, J. (2009, 13 January). *Commentaar op WRR Verkenning over 'Werk en inkomsten na massaontslag'*. Bij aanbieding aan Minister Donner. Nieuwspoor, Den Haag.
- Theeuwes, J. (2009, 17 January). *Inleiding over de gevolgen van de economische crisis voor de Gemeente Amsterdam*. College B&W, Stadhuis Amsterdam.
- Theeuwes, J. (2009, 17 February). *Arbeidsmarkt voor oudere werknemers*. Presentatie over de Economische Agenda. Debat georganiseerd door de Volkskrant, Lux, Nijmegen.
- Theeuwes, J. (2009, 23 February). *De gevolgen van de economische crisis voor de Amsterdam*. Presentatie voor de Directeuren van de Centrale Stad, Gemeente Amsterdam.

- Theeuwes, J. (2009, 20 March). *Economie van het mental kapitaal*. Raad voor Gezondheidsonderzoek, Sociëteit De Witte, Den Haag.
- Theeuwes, J. (2009, 25 March). *Investeren in personeel in de zorgsector*. Care Conferentie Platform 2009, Kasteel De Vanenburg, Putten.
- Theeuwes, J. (2009, 26 March). *Drivers of participation, Outline addressing facts, figures & policy issue*. SEO Discussion Paper 56, gepresenteerd door J. Theeuwes op European Business Summit 26-27 March, Brussels.
- Theeuwes, J. (2009, 23 April). *Highlights onderzoek SEO over de crisis en de Amsterdamse Arbeidsmarkt*. 1e Amsterdamse Arbeidsmarkttop. Platform Arbeidsmarkt en Onderwijs. Koepelkerk, Renaissance Hotel, Amsterdam.
- Theeuwes, J. (2009, 3 June). *Arbeidsmarktstrategie: koersvast of opportunisme?* Peter de Groote lezing. Stichting Industrieel Kennis en Technologie Centrum Zaanstad. Doopsgezinde Vermaning, Westzijde, Zaandam.
- Theeuwes, J. (2009, 16 June). *Dynamiek op de arbeidsmarkt in tijden van crisis*. UWV congres. Pakhuis de Zwijger. Amsterdam.
- Theeuwes, J. (2009, 24 June). Voorzitter van het colloquium over het CPB rapport “Rethinking Retirement”, Rijksacademie voor Financiën en Economie, Den Haag.
- Theeuwes, J. (2009, 1 July). Deelname aan brainstorm grijs, 2100 Stichting voor Onafhankelijk Strategisch Denkwerk, Seats 2 Meet, Utrecht.
- Theeuwes, J. (2009, 24 September). *Amsterdam en de economische crisis*. Expertmeeting voor de commissie Financiën en Economische Zaken van de Gemeente Amsterdam, De Bazel, Amsterdam.
- Theeuwes, J. (2009, 6 October). *Arbeidsmarkt in het postcrisis tijdperk*. Georganiseerd door directie Tempo-team, Kasteel Oud Poelgeest, Oegstgeest.
- Theeuwes, J. (2009, 7 October). Werkgroepvoorzitter en paneldiscussiant over “De Toekomst van het Hoger Onderwijs”, georganiseerd door het ministerie van OC&W, Museum voor Communicatie, Den Haag.
- Theeuwes, J. (2009, 21 October). *Economic and Cultural Effects of File Sharing*. WIPO National Workshop on the Management of Intellectual Property by Musicians, Jakarta, Indonesia.
- Theeuwes, J. (2009, 3 November). *Voor wie niet groot is ... Een verkenning naar de innovatiekracht van MKB-metaal*. Jubileumconferentie OOM, RDM Campus, Heijplaat, Rotterdam.
- Theeuwes, J. (2009, 13 November). *Werkzekerheid nu en na de crisis*. UWV Congres 2009, Beatrix Theater, Utrecht.
- Theeuwes, J. (2009, 16 November). *Gezond werk en welvaart*. Startconferentie ZonNW programma Participatie en Gezondheid, NWO, Den Haag.
- Theeuwes, J. (2009, 18 November). *Arbeidsmarkt en crisis*. Informele ministerstaf arbeidsmarktbeleid, Ministerie van Financiën, Den Haag.
- Theeuwes, J. (2009, 25 November). *Arbeidsmarkt en Onderwijs Monitor voor de provincie Noord Holland*. Philharmonie Haarlem.
- Theeuwes, J. (2009, 26 November). *Kwetsbaren op weg naar werk: Hoe ver moeten we gaan?* SER-UWV conferentie over ‘Kwetsbaren op weg naar werk’, Ser-gebouw, Den Haag.
- Theeuwes, J. (2009, 26 November). *Zorg voor mensen, mensen voor de zorg*. Advies van de Commissie Arbeidsmarkt van het Zorginnovatieplatform, rapport aangeboden aan minister Klink en Staatssecretaris Bussemaker, Den Haag.
- Theeuwes, J. (2009, 3 December). *Arbeidsmarkt en crisis*. Lunchseminar bij ministerie van SZW, Den Haag.
- Theeuwes, J. (2009, 3 December). *De Amsterdamse arbeidsmarkt van de toekomst*. Denkatelier van het Platform Arbeidsmarkt en Onderwijs, Renaissancehotel, Amsterdam.
- Veldhuis, J. (2008, 26 November). *Benefits of Network Changes for European Regions*. Arbeitsgemeinschaft Deutscher Flughafen. Paderborn, Germany.
- Veldhuis, J. (2009, 16 April). *The state of the airline industry*. Airneth Jaarcongres. Crowne Plaza, Den Haag.
- Veldhuis, J. (2009, 22 September). *Impact of the recession on different types of airports and traffic*. Airneth seminar netwerkkwaliteit. Crowne Plaza, Den Haag.
- Wit, J. de (2009). *Optimizing the Composition of Flights in Peak Hours at Hub Airports from Market Perspective*. 13th Conference ATRS (Air Transport Research Society), Abu Dhabi (UAE), 27-30 June 2009.
- Wit, J. de (2009). *The Implication of the ticket tax at Airports in the Netherlands*. 13th Conference ATRS (Air Transport Research Society), Abu Dhabi (UAE), 27-30 June 2009.

- Wit, J. de (2009, 30 January). *The role of air transport in tourism*. Conference about Tourism policy, Turin, Italy.
- Wit, J. de (2009). *Airports in Recession*. Hamburg Aviation Conference, 12-13 February 2009.
- Wit, J. de (2009). *Netwerkontwikkelingen en de nieuwe staatkundige verhoudingen*. Luchtvaartpolitieke Conferentie Curacao, 26-27 January 2009.
- Wit, J. de (2009). *The impact of the Recession on ANSPs*. ATC Global 2009, RAI, 17-18 March 2009.
- Wit, J. de (2009, 24 April). *Connecting and conserving the globe, dilemmas for the airline industry*. Keynote speech at the TTRA conference Europe, Breda.
- Wit, J. de (2009, 12 May). *Oude en nieuwe marktwerkingsvraagstukken in de luchtvaart*. Omnes seminar KLM_AF, Roissy, Parijs.
- Wit, J. de (2009, 11 June). *European scenario open sky or new protectionism?* ICCSAI conference, Rome.
- Wit, J. de (2009, 5 November). *De maatschappelijke waarde van een luchtlijn*. Jubileumcongres SEO Economisch Onderzoek. Amsterdam.
- Zuidberg, J. (2009). *The Economic Effects of Displacing Flights from a Major National Airport and Secondary Airports: a Dutch Case Study*. 13th Conference ATRS (Air Transport Research Society), Abu Dhabi (UAE), 27-30 June 2009.

Other lectures on research

- Baarsma, B. (2009, 10 February). *Advocatuur in crisis?* Presentatie voor KSU. Amsterdam.
- Poort, J. (2009, 17 January). *Ups & downs Economische en culturele gevolgen van file sharing voor muziek, films en games*. Eurosonic/Noorderslag Seminar. Groningen.
- Risseeuw, P. (2009). *Het komt te voet – en het vertrekt te paard*. Causerie. Marktdinner VNAB. Noordwijk, november 2009.
- Wit, J. de (2009, 18 June). *Luchtvaartontwikkelingen*. KLM controllers dag Amstelveen.

Organisational contributions to conferences, workshops and seminars

- Burghouwt, G. (2009, 5 November). Organization of Congress 60 years SEO. Felix Meritis, Amsterdam.
- Theeuwes, J. (2009, 5 November). Organization of Congress 60 years SEO. Felix Meritis, Amsterdam.

Participation in academic networks & fellowships

- Baarsma, B.E. (2009-). Member Intellectual Board Stichting 2100.
- Baarsma, B.E. (2009-). Member Taskgroep Toetsen van Referentieniveaus (OCW).
- Baarsma, B.E. (2009-). Member Selectie- en adviescommissie Stichting De Netwerkschool.
- Baarsma, B.E. (2009). Chairman Commissie verticale integratie in de zorg (VWS).
- Baarsma, B.E. (2007-2009). Member Visitatiecommissie prestaties publieke omroep.
- Baarsma, B.E. (2007-). Member of Vereniging Mededingingsrecht.
- Burghouwt, G. (2004-). Member of the Air Transport Research Society.
- Heyma, A. (2004-). Fellow Amsterdam Institute for Advanced Labour Studies.
- Koopmans, C.C. (2005-). Member Scientific Advisory Board, SWOV Institute for Road Safety Research.
- Koopmans, C.C. (2009-). Chairman Advisory Board, International Master Programme Spatial Transport and Environmental Economics (STREEM), VU University, Amsterdam.
- Noll, R. van der (2009-). Member of Vereniging Mededingingsrecht.
- Theeuwes, J.J.M. (1993-). Chairman Adviescommissie Sociale Statistieken van het CBS.
- Theeuwes, J.J.M. (2007-). Member Economenpanel van BNR Nieuwsradio.
- Theeuwes, J.J.M. (2000-). Member Rekencommissie voor het VWS veld.
- Theeuwes, J.J.M. (2000-). Member Commissie Minimum Lonen van de SER.
- Theeuwes, J.J.M. (2007-). Member Board of Advisers Airmeth, Amsterdam.
- Theeuwes, J.J.M. (2009). Member Werkgroep Kinderopvang, Ministerie van OCW.
- Theeuwes, J.J.M. (2009). Member of the Jury van de dr. Hendrik Muller Prijs, KNAW.
- Theeuwes, J.J.M. (2009-). Member of SER commissie Marktwerking en Publiek Belang.
- Theeuwes, J.J.M. (2008-). Member van het Zorg Innovatie Platform, Ministerie van VWS.
- Wit, J.G. de (2004). Member of the German Aviation Research Society.
- Wit, J.G. de (2001). Member Scientific Board Annual Hamburg Aviation Conference.

- Wit, J.G. de (2004). Member Steering Committee Air Transport Research Society.
Wit, J.G. de (2004). Member Benelux Inter Universitaire Groepering van Vervoerseconomen (BIVEC).
Wit, J.G. de (2007). Added expert member Raad van Verkeer en Waterstaat voor Luchtvaartzaken.

Editor or member of editorial board

- Baarsma, B. (2009-). Member editorial board Toezicht.
Theeuwes, J.J.M. (2007). Member scientific advisory board of the digital Tijdschrift voor Politieke Economie (TPE-digitaal).
Theeuwes, J.J.M. (2007). Member editorial board Tijdschrift voor Arbeidsvraagstukken.
Theeuwes, J.J.M. (2007). Member editorial board Sociale en Culturele Wetenschappen van de Amsterdam University Press (AUP).
Theeuwes, J.J.M. (2008). Member editorial board Me Judice (www.mejudice.nl)
Tieben, L.A.W. (2008-). Member editorial board of the digital Tijdschrift voor Politieke Economie (TPE-digitaal).
Wit, J.G. de (2004-). Member of the editorial board Journal of Air Transportation.
Wit, J.G. de (2004-). Member of the editorial board Journal of Air Transport Management.
Wit, J.G. de (2005-). Member of the editorial board Tijdschrift voor Vervoerswetenschap.

Referee activities

- Baarsma, B. (2007). Referee for Energy Policy.
Baarsma, B. (2009-). Referee for Energy.
Burghouwt, G. (2004-). Referee for Applied Geography.
Burghouwt, G. (2007-). Referee Transport Policy.
Burghouwt, G. (2008-). Referee Journal of Transport Geography.
Burghouwt, G. (2007-). Referee European Journal of Transport & Infrastructure Research.
Burghouwt, G. (2009). Referee Journal of Transport Economics and Policy.
Burghouwt, G. (2009) Referee Transport Review.
Heyma, A. (2009). Referee for Manchester School.
Heyma, A. (2009). Referee for LABOUR: Review of Labour Economics and Industrial Relations.
Heyma, A. (2009). Referee for Journal of Population Economics.
Koopmans, C.C. (2009). Referee for European Journal of Transport and Infrastructure Research.
Theeuwes, J.J.M. (2009). Referee for Journal of Population Economics.
Wit, J.G. de (2004-). Referee for Journal of Transport Economics and Policy.
Wit, J.G. de (2005-). Referee Tijdschrift voor Vervoerswetenschap.

Membership of academic committees (including Ph.D. committees outside the FEB)

- Theeuwes, J. (2009, 17 February). Member of promotion committee of S. Kingston. Rijksuniversiteit Leiden.

Research contributions in the media

- Almelo, L. van (2009, 13 November). Toegang tot advocaten: Te weinig concurrentie. B. Baarsma over te weinig concurrentie inde advocatuur. *Advocatenblad*, (jrg. 2009), 14, 598-599
Baarsma, B. (2009, 30 September). Quotum voor topvrouwen is volstrekt onnodig. *NRC Handelsblad*, 7.
Baarsma, B. (2009, 23 October). Geen excuustruzen aan de top. *Folia*, 63, (09), 8-9.
Baarsma, B. (2009, 18 November). Prijsoorlog maakt van stok een moker op de postmarkt; Omdat postmarkt nu vechtmakrt is moet pad naar vaste dienstverbanden flexibel zijn. *Het Financieele Dagblad*, 7.
Baarsma, B. & Nooij, M. de (2009, 30 January). Splitsing leidt tot Haagse spijt. *Het Financieele Dagblad*, 9.
Baarsma, B. & Risseeuw, P. (2009, 2 September). Leidraad AFM jaagt vorming kartel aan. *Het Financieele Dagblad*, 7.
Bakkeren, F. (2009, 8 June). Door de crisis juist méér werk. Interview met Siemen van der Werff over zijn baan als junior onderzoeker bij SEO Economisch Onderzoek. *Sp!ts*, 6.

- Berkhout, K. (2009, 18 June). Amsterdam is geen trekpaard meer. Interview met o.a. J. Theeuwes over recessie en de stedelijke economie. *NRC*, 3.
- Bolwijn, M. (2009). De ideale werknemer is een moeder. O.a. interview met B. Baarsma. Amsterdam: Uitgeverij Bert Bakker, 48, 116.
- Borstel, S. von (2009, 16 September). Hartz IV auf Holländisch. Interview met L. Kok over langdurig werklozen. *Welt online*. <http://www.welt.de/die-welt/wirtschaft/article4545253/Hartz-IV-auf-Hollaendisch.html>
- Bouw, G. (2009, 26 March). Politiek zelf gaf vakbond veel macht. Interview met J. Theeuwes. *Reformatorisch Dagblad*, 3.
- Bovenkamp, J. van den (2009, 10 October). Notaris moet niet zeuren. Interview met o.a. B. Baarsma over de gevolgen van de financiële crisis voor het notariaat. *Reformatorisch Dagblad*, 10.
- Brand, G. (2009, April). Overheid ziet dwaling vliegtaks in. Jan Veldhuis over de vliegtaks. *Zakenreis*, 42, (412), 37.
- Bremmer, D. (2009, 6 November). Vrije markt notarissen bespaart miljoenen. Interview met B. Baarsma over succes van het vrijgeven van notaristarieven. *Algemeen Dagblad*, 24.
- Bijlsma, E. & Polak, A. (2009, 8 June). Klaar in crisistijd, wat nu? Interview met Jules Theeuwes over schoolverlaters in crisistijden. *Splits*, 9.
- Bijma, B. (2009). In actie voor kwetsbare werkzoekenden. Over de bijdrage van J. Theeuwes op de conferentie van SER en UWV, 26 november 2009. *SER Magazine*, 49, (11), 20-21.
- Dikker, A. (2009, September). Deeltijd-ww lijkt op communisme. J. Theeuwes over de gevolgen van de deeltijd-ww voor de crisis. *Zeggenschap*, 20, (3), 6-7.
- Giebels, R. (2009, 10 March). Niets doen kan niet, iets doen is lastig. Interview met o.a. B. Baarsma. *de Volkskrant*, 7.
- Haighton, M. (2009, 6 June). Verstandshuwelijk staat voor vuurproef. Interview met Jaap de Wit over de fusie tussen KLM en Air France. *de Volkskrant*, 13.
- Heide, L. van der (2009, 30 October). Turken zijn een reislustig volk: Dus gaat het goed met Turkish Airlines. R. Lieshout over diepe crisis in luchtvaartsector aan een kant en uitbreidingen van netwerken en vloot door Turkish Airways aan de andere kant. *NRC Next*.
- Herderscheë, G. (2009, 3 June). Ziekenhuis is vrij om te fuseren met verzekeraar. Interview met B. Baarsma over het advies van commissie van concurrentiedeskundigen aan minister van Volksgezondheid. *De Volkskrant*, 4.
- Hofs, Y. (2009, 12 August). CPB optimistischer door bijgestelde ramingen over de wereldhandel. J. Theeuwes e.a. geven een verklaring voor een optimistischer CPB. *De Volkskrant*, 7.
- Hooft van Huysduynen, M. & Wijnen, J.F. van (2009, 20 March). Laconieke Nederlandse advocaten ontkomen niet aan recessie. B. Baarsma over Nederlandse advocatuur en de financiële crisis. *Het Financieele Dagblad*, 15.
- Houkes, A. (2009, 20 July). Ziekenhuis scheidt zelf probleem. *Het Financieele Dagblad*, 7.
- Jong, B. de (2009, 7 November). De notaris worstelt met zijn geketende positie. Interview met o.a. B. Baarsma over de marktwerking in het notariaat. *Leeuwarder Courant*, 2.
- Kalles, B. (2008, 18, November). Politieke blokkade tegen vrije postmarkt weg na cao-akkoord. Interview met B. Baarsma. *Het Financieele Dagblad*, 4.
- Kerste, M. & Grand, H. le (2009, 20 July). Stimuleer niet alleen bancaire krediet. *Het Financieele Dagblad*, 5.
- Kok, L. (2009, 14 december). Verhoog verplicht eigen risico topinkomens. *Het Financieele Dagblad*, 7.
- Koopman, B. (2009, 3 July). Notariaat: Tien jaar marktwerking - Notaris die niet onderneemt, verliest het van de prijsvechters. B. Baarsma over tien jaar marktwerking in het notariaat. *Het Financieele Dagblad*, 10.
- Koopman, B. (2009, 3 July). Innovatie in noodlijdend notariaat. B. Baarsma over inkrimping van de markt voor het notariaat. *Het Financieele Dagblad*, 9.
- Koot, J. & Schrijver, J. (2009, 17 September). Sluis IJmuiden is heet hangijzer. C. Koopmans over de rentabiliteit, het uitstel van de bouw en alternatieven voor de nieuwe sluis IJmuiden. *Het Financieele Dagblad*, 4.
- Kruisselbrink, E. (2008, 15 December). Er is ruimte voor onderhandeling. B. Baarsma over de benchmark posttarieven. *MailMatters*, 50-51.
- Kruisselbrink, E. (2008, 17 November). Er is ruimte om te onderhandelen. B. Baarsma over de benchmark posttarieven. *Graficus*, 47, (2008), 15.

- Marlet, G. & Poort, J. (2009, 29 December). Hypotheek op corporatiebezit maakt rijksbegroting gezond. *Het Financieele Dagblad*, 7.
- Nieuwenhuijsen, B. (2009, 29 May). Hoe werden wooncorporaties zo rijk? Interview met J. Poort. Z24. http://www.z24.nl/bedrijven/bouw_vastgoed/artikel_74673.z24/Hoe_werden_woningcorporaties_zo_rijk_.html
- Nieuwenhuijsen, B. (2009, 29 May). Top tien rijkste wooncorporaties. Interview met J. Poort. Z24. http://www.z24.nl/bedrijven/bouw_vastgoed/artikel_75101.z24/Top_tien_rijkste_woningcorporaties_.html
- Nieuwenhuijsen, B. (2009, 16 June). Deeltijd-WW niet tegen diepere crisis opgewassen. J. Theeuwes over deeltijd-WW. Z24. http://www.z24.nl/economie/artikel_77858.z24/_Deeltijd-WW_niet_tegen_diepere_crisis_opgewassen_.html
- Noll, R. van der & Poort, J. (2009, 4 July). Alleen papier is een probleem. *De Volkskrant*, 8.
- Olsthoorn, P. (2009, 17 November). Veel gebabbel over toekomst journalistiek. Over de presentatie van R. van der Noll tijdens een studiemiddag over de toekomst van de dagbladders georganiseerd door de Vereniging voor Media- en Communicatierecht. *Villamedia.nl*
- Pleysier, A. (2009, 6 November). Prijsvechters - Horrorverhalen - Notaris worstelt met de vrije markt; 'Garageboxnotarissen maken de beroepsgroep kapot'. Interview met B. Baarsma over de marktwerking in de notarissector. *Nederlands Dagblad*, 7.
- Pleysier, A. (2009, 10 November). Elke koekenbakker kan het notarisvak in. B. Baarsma over het marktwerking in het notariaat. *Dagblad van het Noorden*, 7.
- Redactie Algemeen Dagblad (2009, 14 November). Luchtvaartsector fors opgeschoond. J. de Wit over de fusie Iberia BA. *AD/Algemeen Dagblad*, 25.
- Redactie Nederlands Dagblad (2009, 16 November). Bezem door Luchtvaart. J. de Wit over de fusie Iberia BA. *Nederlands Dagblad*, 7.
- Redactie Haarlems Dagblad (2009, 14 November). Fusie British Airways en Iberia: op wat grut na is koek nu op. *Haarlems Dagblad*. [geen pagina nr. gevonden.]
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Various activities

- Theeuwes, J. (2009) promotiebegeleiding van Edith Loozen, (promotor Floris Vogelaar, UvA).

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APPENDIX II: ABBREVIATIONS

AAE	Aviation Economics (SEO cluster)
ABS	Universiteit van Amsterdam Business School
ABS-RI	Universiteit van Amsterdam Business School Research Institute
ACE	Amsterdam Center for Entrepreneurship
AE	Algemene Economie (afdeling) Economics (department)
AER	American Economic Review
Afd	Afdeling Department
AgBS	Amsterdam graduate Business School, now ABS
AgBS-RI	Amsterdam graduate Business School Research Institute, now ABS-RI
AIAS	Amsterdams Instituut voor Arbeidsstudies Amsterdam Institute for Labour Studies
AIID	Amsterdam Institute for International Development
AIO	Assistent in Opleiding (promovendus) Ph.D.-student
AR	Autoregression
ARCH	Autoregressive Conditional Heteroskedasticity
ASE	Universiteit van Amsterdam School of Economics
BIB	Bibliotheek Library
Burs	Bursaal Ph.D.-student
B/R	Books & Reports
BS	Business Studies (department)
CAPM	Capital Asset Pricing Model
CB	Central Bank
CeNDEF	Center for Nonlinear Dynamics in Economics and Finance
CentER	Center for Economic Research, Tilburg University
CESifo	Joint subsidiary company of Center for Economic Studies at the University of Munich and the Ifo Institute for Economic Research.
CEPR	Centre for Economic Policy Research
CIS	Commonwealth of Independent (countries)
CPNSS	Centre for Philosophy of Natural and Social Sciences
CPB	Centraal Plan Bureau Central Planning Bureau
CPI	Consumer Price Index
CREED	Center for Research in Experimental Economics and Political Decision Making
CSCA	Cognitive Science Center Amsterdam
CUP	Chicago University Press
DNB	De Nederlandsche Bank The Dutch Central Bank
Drs	Doctorandus (Dutch equivalent of master title)
EARIE	European Association for Research in Industrial Economics
EC	European Commission
ECB	European Central Bank
ECN	Energieonderzoek Centrum Nederland
EMU	European Monetary Union
ENABLE	European Network for the Advancement of Behavioural Economics
ENCORE	Economics Network for Competition & Regulation
ESB	Economisch-Statistische Berichten (journal)

Appendix II

EU	European Union
EUR	Erasmus Universiteit Rotterdam
	Erasmus University Rotterdam
EZ	(Ministerie van) Economische Zaken
	Ministry of Economic Affairs
FEB	Faculty of Economics and Business
FEE	Faculty of Economics and Econometrics (Former FEB)
FEZ	Financieel-Economische Zaken
	Financial Department
FGV	Fundacao Getulio Vargas
FTE	Full Time Employment (equivalent)
FIG	Facultaire Informatiseringsgroep
	Computer & Information Technology Services
FZ	Facilitaire Zaken
	Facilities & Services
GDP	Gross Domestic Product
GLM	Generalized Linear Mixed Models
GOA	Geconcentreerde OnderzoeksActie
GMM	Generalized Method of Moments
HGL	Hoogleraar
	Professor
IAA	International Actuarial Association
IAS	International Accounting Standards
IBNR	Incurred but not reported
ICCAM	International Congress on Computational and Applied Mathematics
IEC	In- & Externe Communicatie
	Internal and External Communication
IME	Insurance: Mathematics and Economics (journal)
IMF	Internationaal Monetair Fonds
	International Monetary Fund
ICA	Industrial Economics, Competition & Antitrust (programme)
IO	Industrial Organization
IPN	Inflation Persistence Network
IZA	Forschungsinstitut zur Zukunft der Arbeit
	Institute for the Study of Labor
JEL	Journal of Economic Literature
KE	Kwantitatieve Economie (afdeling)
	Quantitative Economics (department)
KNAW	Koninklijke Nederlandse Akademie van Wetenschappen
KUL	Katholieke Universiteit Leuven
	Catholic University Leuven
LNMB	Landelijk Netwerk Mathematische Besliskunde
LSE	London School of Economics
METIS	Research Information Database (formerly OZIS)
MSc	Master of Science
MUB	Wet Modernisering Universitair Bestuur (law on the modernizing of university governance)
NAKE	Netwerk Algemene en Kwantitatieve Economie
NMa	Nederlandse Mededingings autoriteit
	Dutch Competition Authority
NS	Nederlandse Spoorwegen
	Dutch Railways
NWO	Nederlandse Organisatie voor Wetenschappelijk Onderzoek
	Netherlands Organisation for Scientific Research
NWO-MaG	NWO-Maatschappij & Gedrag
	NWO-Social and behavioural sciences

Appendix II

NWO-ISW	NWO-Internationalisering Sociale Wetenschappen NWO fund for Internationalization of Social Sciences
NTU	Nanyang Technological University
OBP	Ondersteunend & Beheerspersoneel Support staff
ONB	Onbekend (tijdschriften) Publications with no ranking
OZ	Onderzoeker Researcher
OVO	Overig Onderzoek Non-programme research
OWI	Onderwijsinstituut Teaching Institute
OZI	Onderzoekinstituut Research Institute
PDOC	Postdoctoral fellow
Ph.D.	Philosophy Doctor
PL	Personele lasten Costs of personnel
Postdoc	Postdoctoral fellow
PPI	Produder Price Index
PZ	PersoneelsZaken Personnel Department
RBC	Risk Based Capital
RESAM	Research institute in EconomicS & econometrics AmsterdaM
RTN	Research Training Networks (EU)
RuG	Rijksuniversiteit Groningen Groningen University
S&P	Standard & Poor
SCHOLAR	Schooling, Labour Market and Economic Development
SCE	Society for Computational Economics
Secr.	Secretariaat Secretariat
SEO	Stichting voor Economisch Onderzoek Amsterdam Economics
SGP	Stability and Growth Pact
SHUFE	Shanghai University of Finance and Economics
STREP	Specific Targeted Research or Innovation Project
SWOT	(Analysis of) Strengths, Weaknesses, Opportunities & Threats
TAR	Threshold Autoregression
TI	Tinbergen Instituut Tinbergen Institute
TIER	Top Institute for Evidence based Education Research
UCL	Université Catholique de Louvain
UD	Universitair Docent Assistant Professor
UHD	Universitair Hoofddocent Associate Professor
UMTS	Universal Mobile Telecommunications System
USAID	United States Agency for International Development
UvA	Universiteit van Amsterdam
VAR	Vector Autoregression
VENI	NWO Research grant for young researchers
VIDI	NWO Research grant
VICI	NWO Research grant
VSNU	Vereniging van Samenwerkende Nederlandse Universiteiten

Appendix II

VU	Association of Universities in the Netherlands Vrije Universiteit Amsterdam Free University Amsterdam
VWS	(Ministerie van) Volksgezondheid, Welzijn en Sport Ministry of Health Welfare and Sport
WP	Wetenschappelijk Personeel Faculty

