



Dear participants and friends of the GSBC,

In this edition of the GSBC newsletter you will find information on the recent developments at the Graduate School "Human Behaviour in Social and Economic Change" (GSBC), including upcoming courses, workshops and conferences as well as research highlights relevant to the researchers and doctoral candidates in the GSBC. The contents of this newsletter are as follows:

**Latest News  
Announcements  
Achievements**

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## LATEST NEWS

### ***Amelie-Mummendey-Award for Julia Zimmermann (GSBC)***

In November 2013, Julia received the Amelie-Mummendey-Award. The prize is awarded by the Institute of Psychology of the Friedrich Schiller University Jena. Julia got the prize for her dissertation on "International Mobility as a Context of Personality and Relationship Development in Young Adulthood".



### ***New position for Leonhard K. Lades (GSBC)***



In October 2013, Leonhard moved to Stirling, UK where he is now an Early Career Fellow at the Behavioural Science Centre (BSC) at Stirling University. The BSC is one of the few truly interdisciplinary centres within Europe. The research at the centre combines insights from economics and psychology in order to integrate the behavioural and social sciences, with a focus on individual differences, health, self-control, and well-being. In collaboration with BSC-members, Leonhard will continue his research on the motivational foundations of impulsive behaviour and, for example, empirically test various aspects of the theoretical work he conducted at the GSBC. Moreover, he will continue conducting research on the effectiveness and acceptability of behavioural policy interventions, thereby providing further impetus for the implementation of behaviourally-informed policies.

**Alexia Gaudeul is the new post-doctoral research fellow of the GSBC-EIC**

I joined the GSBC-EIC in February where I am working as a post-doctoral research fellow. I hold a PhD in Economics and a MSc in Mathematical Economics and Econometrics from the University of Toulouse as well as a MSc in Management with specialization in Finance from HEC, Paris. My original domain of specialization was industrial organization, but I am now working in the field of experimental economics. I worked in the last year and a half at the Max Planck Institute for Economics here in Jena, where I pursued research in experimental economics and had the great opportunity to run a wide range of experiments on a variety of subjects. I am interested in behaviour under risk when one takes into account that the risk not only affects people's income but also their position in society. I am also working on issues of privacy and trust in social networks. I keep developing research on the behaviour of firms and consumers when firms can confuse consumers and make it difficult for them to compare offers with the competition. Finally, I am finishing a paper on whether people are more or less cooperative with their partner when it is easy to get out of the partnership.



My door is always open if you want to discuss your research (or mine!). I have quite extensive experience advising PhD students on their research and helping them in applying experimental and econometric methods, and I would be very happy to be of use in this respect.

For further details and my list of publications, see my Curriculum Vitae at <http://agaudeul.free.fr>. I update my blog at <http://agaudeul.wordpress.com> with summaries of my research papers and presentations.

Contact: [a.gaudeul\[at\]gmail.com](mailto:a.gaudeul[at]gmail.com)

**New Position for Maja Schachner (GSBC)**

Maja Schachner has been elected as Deputy Representative of the young scholar group of the Educational Psychology branch of the German Psychological Association (PAEPS). PAEPS is the Educational Psychology branch of the German Psychological Association. The young scholar group aims to organize workshops and career building activities for young scholars in Educational Psychology and to strengthen the voice of young scholars in the German Psychological Association. Maja has been elected as Deputy Representative of the young scholar group for the next two years. Her main tasks will be to contribute to the organization of events and to further extend and strengthen the network amongst junior scholars in Educational Psychology in Germany.

### ***New membership for Javier Papa (GSBC-EIC)***

As of December 2013, Javier Papa became member of the newly created Task Force "Linking Keynes and Schumpeter" under the Initiative for Policy Dialogue, founded by Nobel-prize winner J. Stiglitz at Columbia University. The research program is aimed at exploring the effects of macroeconomic conditions and policies on pace and orientation of economic development, viewed as a process that involves centrally innovation and structural transformation. The Keynes-Schumpeter' Task Force is comprised of world leading experts such as Richard R. Nelson (chair), José Antonio Ocampo (chair), Mariana Mazzucato, Bart Verspagen, Jorge Katz, and Mario Cimoli ([complete list](#)).

### ***Andreas Freytag is columnist of the "Wirtschaftswoche"***



Since the end of 2012, Andreas Freytag is columnist of the "Wirtschaftswoche". Each Friday he answers the so called "Freytags-Frage" in the online edition of the journal "Wirtschaftswoche". Please see <http://www.wiwo.de/themen/Freytags-Frage> for further information.

### ***New interdisciplinary research proposal on "problem-solving patterns of modern societies"***

Problems are the causes, problem solutions are the drivers of social change. The omnipresence of problems, related problem-solving patterns that not always fit well and the occurrence of problem-solving failures put into question problem-solving capacities of and in societies. Are attempts to solve a problem constrained by already existing problem-solving patterns or not? How do societies handle failed or inefficient problem-solving approaches? Which instances are established by societies to systematically observe and reflect problem-solving capacities and processes? Which sources and mechanisms are available to develop and to implement new problem solutions?



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Within the current research initiative "Pro Exzellenz II" of the Free State of Thuringia a group of 32 professors from the Friedrich Schiller University of Jena being interested in these research questions handed in a research proposal attempt on "problem-solving patterns of modern societies". In detail, the research proposal aims to analyse the types, the reasons and (intended and non-intended) consequences as well as the change of problem-solving patterns in modern societies. The research proposal attempts to sys-

tematically analyse problem-solving pattern of and in societies and is characterized by an interdisciplinary approach. Moreover, the analyses are comparative, look at the observable dynamics and are designed for different levels of aggregation and different phases of problem solving cycle. In order to meet these objectives, the following participating faculties of the Friedrich Schiller University of Jena will cooperate (number of participating chairs in parentheses):

- Faculty of Social and Behavioral Sciences (14),
- Faculty of Economics and Business Administration (9),
- Faculty of Law (5),
- Faculty of Philosophy (2),
- Faculty of Chemistry and Earth Sciences (1),
- Faculty of Mathematics and Computer Science (1),

with Stefanie Hiß (sociology, chair of markets, organizations and governance) and Uwe Cantner (economics, chair of economics/microeconomics) have been in charge of drafting and submitting the research proposal. Different disciplinary views on problem-solving patterns are combined into a broad inter- and transdisciplinary attempt organized around the following five clusters:

- Cluster I. Perception of problems and problem-solving
- Cluster II. Individual, organisational and social problem-solving capacities and skills
- Cluster III. Incongruities between problems and their solutions
- Cluster IV. Institutionalised problem-solving patterns
- Cluster V. Optimisation of problem-solving processes

The five clusters have in common that they all focus on the analysis of problem-solving patterns as recurring problem-solving strategies and processes. A decision on the proposal is expected by the mid of 2014.

## **ANNOUNCEMENTS**

### *15th International Conference of the International Joseph A. Schumpeter Society (ISS)*

From July 27-30 2014 the Friedrich Schiller University Jena will host the 15th International Conference of the International Joseph A. Schumpeter Society (ISS), which is currently chaired by Uwe Cantner (University of Jena). The Conference, whose theme is "Foundations of Economic Change – Behaviour, Interaction and Aggregate Outcomes" is a unique occasion for international researchers (and for GSBC fellows in particular) working in the fields of Economics of Innovation, Industrial Dynamics, Entrepreneurship, Behavioural Economics, Evolutionary Economics, Economic Growth and other related areas of research. The Conference is open to submissions that deal with theoretical, methodological, empirical, and policy issues with a broad Evolutionary





or Neo-Schumpeterian focus, as well to proposals for parallel sessions on other topics of contemporary interest; six priority topics for submissions are also highlighted:

- Evolutionary and Behavioural Foundations of Economic Change
- Innovation and Entrepreneurship in Context
- Structural Change, Creative Destruction and Inequality
- Evolution of Innovation Systems and Networks
- Industrial Dynamics and Macro Regularities
- Smart Policies in an Evolutionary Context

Deadline for extended abstract submission (max. 1,000 words) is the 28th February 2014. All papers written by doctoral students only are in competition for the ISS 2014 Doctoral Student Best Paper Award.

Electronical abstract submissions, as well as further information and updates can be found at the Conference website: [www.schumpeter-conference.de](http://www.schumpeter-conference.de).

#### *7th Thesis Workshop of the IMPRS Uncertainty*



The International Max Planck Research School on Adapting Behavior in a Fundamentally Uncertain World (IMPRS Uncertainty) will have its 7th Thesis Workshop at castle Oppurg from February 10th till 13th 2014. At this workshop, all PhD students of the IMPRS Uncertainty will present the status quo of their thesis in front of the faculty and the students of the IMPRS Uncertainty.

We are looking forward to interesting presentation by the doctoral fellows and intense discussions to provide valuable feedback for the ongoing research projects.

#### ***Recent and upcoming Lectures and Workshops***

- Thu 27th – 28th Feb 2014, Workshop organized by Peter Walgenbach, **38. Workshop der Wissenschaftlichen Kommission Organisation WK ORG im Verband der Hochschullehrer für Betriebswirtschaftslehre**, Jena.
- Thu 6th February 2014, 4 p.m., Lecture by Patrick Messerlin, **Negotiating issues in Transatlantic Trade and Investment Partnership and other mega Plurilateral Trade Agreements**, Carl-Zeiss-Strasse 3, room 2.43, Jena.
- Thu 20th – 21st March 2014, Workshop organized by Luca Giustiniano, Georg Krücken, Carmelo Mazza, Renate Meyer und Peter Walgenbach, **10th New Institutionalism Workshop**, Rom, Italy.

- Wed 16th – 18th September 2015, Conference organized by the chair of Rolf Steyer, **12. Tagung der Fachgruppe Methoden & Evaluation der Deutschen Gesellschaft für Psychologie (DGPs)**, Jena.

Please see <http://gk.wiwi.uni-jena.de/index.php> to get up-to-date information about seminars and lectures.

## ACHIEVEMENTS

### *Contributions by GSBC and EIC fellows at two international meetings*

From the 7th to the 9th of November 2013, Chad Baum (GSBC & MPI of Economics), Simone Vannuccini (GK and Uni-Jena) and Prof. Ulrich Witt (GSBC & MPI of Economics) participated in the 25th EAEPE (European Association for Evolutionary Political Economy) annual Conference, held in Bobigny (Paris) and hosted by the University Paris 13. The presentations of the fellows from Jena touched different topics, in line with the variety and heterogeneity of issues addressed by the Conference under the title "Beyond (De)industrialization: the Future of Industries?". Chad Baum presented in the session titled "Social Economics" his paper "Retail Context-in-Action: a Relational Framework of Ethical and Organic Consumption", while Simone Vannuccini contributed to the session on "General Purpose Technologies" with a working paper co-authored with Uwe Cantner and titled "On (European) Industrial Policy, Smart Specialization and a New View of General Purpose Technologies". Finally, Ulrich Witt contributed to one of the main sessions, dedicated to "The Future of Evolutionary Economics", with the presentation "Evolutionary Economics – The Synthesis to Come".



Source: [www.eaepeparis2013.com](http://www.eaepeparis2013.com)

At the second international meeting, Ronney Aamoucke (with the paper "Properties of Higher Education Institutions and innovative start-ups. An empirical investigation"), Fernanda Puppato (with the paper "The effect of innovation on structural change and wage inequality in Latin America: a macro to micro perspective") and Simone Vannuccini (with the paper "General Purpose Technologies as Emergent Properties, and the "Technological Multiplier "Hypothesis") participated in the first "Doctoral Workshop in Economics of Innovation, Complexity and Knowledge", organized by the Vilfredo Pareto Doctoral School in Economics & BRICK (University of Torino, Italy) and held in the suggestive framework of the Collegio Carlo Alberto in Moncalieri (Torino), between the 12-13th December 2013. The two-days workshop gathered around 20 Ph.D students of Economics of Innovation

and related fields, which had the opportunity to present their research and to interact with senior scholars of the Faculty. The workshop offered also three plenary lectures, provided by Cristiano Antonelli, University of Torino ("Globalization localized technological change and knowledge economy"), Dirk Czarnitzki, KU Leuven & ZEW Mannheim ("Econometric evaluation of technology policy: state of the art, limitations and future research") and Aldo Geuna, University of Torino & Stanford University ("Publish or Perish"). The fact that the Jena Graduate College "The Economics of Innovative Change" (GSBC-EIC) was represented by three fellows (so providing a very good share of participants) should be regarded as a success of the GSBC-EIC and of its research, which was highly appreciated both by the organizers and the participants.

### ***Completed Dissertations***

- Bruns, Stephan B. (EIC, under supervision of Uwe Cantner), Meta-Regression Analysis in Economics.
- Eckartz, Katharina M. (IMPRS, under supervision of Oliver Kirchkamp), Information and Incentives in Principal-Agent Experiments.
- Eckert, Jan (Law, under supervision of Walter Bayer), Erwerb eigener Aktien auf dem Prüfstand der Rechtstatsachenforschung.
- Geißler, Matthias (EIC, under supervision of Michael Fritsch), Firm Dynamics and Organizational Capabilities in the Evolution of the German Laser Industry.
- Kemter, Virginie (Law, under supervision of Walter Bayer), Corporate Governance nach der Finanzkrise unter besonderer Berücksichtigung des Bankensektors.
- Markowsky, Heinrich (Law, under supervision of Walter Bayer), Die Einziehung von GmbH-Geschäftsanteilen.
- Preuß, Dirk (Ethic, under supervision of Nikolaus Knoepffler and Josef Römelt), Pietät - moralphilosophische Rekonstruktion und Applikation auf Fragestellungen der Sepulkralkultur und Medizinethik.
- Rau, Juliane (Law, under supervision of Matthias Ruffert), Die Gesellschaft bürgerlichen Rechts als Rechtsform für die öffentliche Hand Zur Frage der Bedeutung und Zulässigkeit der BGB-Gesellschaft mit öffentlicher Beteiligung.
- Schröpfer, Michael (Law, under supervision of Walter Bayer), Compliance-Organisation im Aktienkonzern – die Compliance-Verantwortung von Vorstand und Aufsichtsrat im Unterordnungskonzern.
- Sell, Anne (Law, under supervision of Matthias Ruffert), Gewässerschutz im legislativen Kompetenzgefüge des europäischen Mehrebenensystems.
- Sienknecht, Sebastian (Economics, under supervision of Hans-Walter Lorenz), On the Economics of Welfare-based Policy Choice and Inflation Persistence.

We congratulate them and wish them all the best for their future careers.

### **Conference presentations by the GSBC fellows**

#### ***Maja Schachner on "Developing Teachers' Intercultural Competence – Findings from a Teacher Survey at Multicultural Schools in Germany" (with Lena Sendzik, Peter Noack & Fons J. R. Van de Vijver)***

Tilburg Meeting of the 11 City Tour of the Society for Intercultural Education, Training and Research (SIETAR) to initiate the dialogue between researchers and practitioners, Tilburg, The Netherlands, October 2013

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Due to international labour migration, schools are becoming increasingly multicultural in most Western European countries. This requires a high level of intercultural competence by teachers, who are faced with an often extremely diverse studentship. Yet, there is insufficient training to prepare teachers for their work in multicultural schools. In Germany, training as part of teachers' university education focuses mainly on the linguistic aspects of teaching a multicultural studentship and in-service training in intercultural competence is not systematically provided. As a result, most teachers have to acquire their intercultural skills on the job. Yet, the opportunity to acquire such skills may also vary between schools, depending on characteristics of the school context. In the present study, 207 teachers from 22 culturally diverse secondary schools in Germany have been surveyed. Findings suggest that an open and diversity friendly climate at school as well as the headmasters' commitment to multiculturalism and diversity management had a positive effect on teachers' intercultural competence. Both the climate and the headmaster's commitment varied between schools depending on ethnic composition and school track. Further, teachers' individual attitudes towards immigrants affected their intercultural competence: the expectation that immigrant students should adapt to the culture of the mainstream society appeared to be beneficial for teachers' self-related intercultural competence (i.e. mastering the situation in a multicultural classroom) whereas tolerance towards immigrant students maintaining their cultural of origin was beneficial for student-related intercultural competence (i.e. being able to support immigrant students at school). Implications for science, policy and practice will be discussed.

#### ***Uwe Cantner on "Innovation, personality traits and entrepreneurial failure" (with Sebastian Wilfling and Rainer Silbereisen)***

University of Turino, Collegio Carlo Alberto, BRICK, November, 2013

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Studies on moderators of the innovation performance relationship in entrepreneurship research are scarce. Thus in this paper we use a dataset consisting of 416 entrepreneurs from the German federal state of Thuringia in order to examine the moderating effect of the Big Five personality traits extraversion, openness and conscientiousness on the relationship between entrepreneurial innovation and exit by failure in highly innovative industries. Correspondingly, we identify exit by failure with the help of bankruptcy information and self-reports. In order to account for self-selection into innovative entrepreneurship, stratification on the propensity score is utilized to overcome self-selection bias. After accounting for selfselection into innovation, we find that personality moderates the innovation failure relationship. Extraversion strengthens the negative effect of innovation on exit by failure. In contrast, openness and conscientiousness weaken the negative effect of innovation on entrepreneurial failure.



***Uwe Cantner on "Where productivity goes?"***

European Mezzogiorno and Mediterranean in the Middle Time. Economy, Finance and Society – Scenarios and New Equilibria, Sorrento, November 2013

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Productivity is a major driver of economic development; innovations are major driver of productivity. For countries and regions to experience a prosperous development of productivity the "right" innovation activities have to be induced. The concept of smart specialization is just a new approach allowing countries and regions to draw on existing competences to innovate and imitate in order to develop and direct them further into appropriate fields of application and specialization.

***Michael Fritsch on "The Effect of Regional Entrepreneurship Culture on Economic Development - Evidence for Germany" (with Michael Wyrwich)***

North American Regional Science Council, Atlanta, USA, November 2013

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We use the historical self-employment rate as indicator for a regional culture of entrepreneurship and link this measure to economic growth in recent periods. The results indicate that German regions with a high level of entrepreneurship in the mid-1920s have above average levels of GDP per capita today. These regions also have higher start-up rates about 80 years later. Furthermore, we find that the effect of current start-up activity on regional employment is significantly higher in regions with a pronounced entrepreneurial culture. We conclude that a regional culture of entrepreneurship is an important resource for regional growth.

***Simone Vannuccini on "General Purpose Technologies as Emergent Properties, and the "Technological Multiplier" Hypothesis" (with Uwe Cantner)"***

25th European Association for Evolutionary Political Economy (EAEPE) annual Conference, University Paris 13, Bobigny (Paris), France, November 2013

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The paper suggests a novel theoretical framework to deal with the concept of General Purpose Technologies (GPT hereafter), attempting at understanding the economic as well technological conditions for the establishment of persistent and pervasive technologies. Framing this process as "emergent" from the network of inter-industry interdependencies, the paper proposes a micro-to-macro explanation for economy-wide inducements of innovative activities, hypothesizing that a mechanism comparable to a "technological multiplier" is at work. In addition to proposing a theoretical framework capable to adjust some of the flaws in the GPT theory and to place it on sound micro basis, the paper also suggests a potential empirical strategy to detect GPTs and the multiplier effect at work at industrial level.

***Uwe Cantner on “On the Empirics of Replicator Dynamics”***

25th Telecom Ecole de Management Paris, France, November 2013

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“Romantic Views” on innovation activities and the process of creative destruction (Schumpeter 1942) focus at a selection and competition dynamics among heterogeneous firms (or other actors) in the sense that firms with performance above average grow - or enter the market and firms with performance below average shrink – eventually exit the market. This view is tested empirically via different approaches and concepts. The evidence is mixed and only convincing when data allow to address markets instead of the broader concept of industries.

***Ronney Aamoucke on “Types of Higher Education Institutions, Fields of Knowledge and Innovative Start-ups - An Empirical Investigation” (with Michael Fritsch)***

1st PhD Workshop in Economics of Innovation, Complexity and Knowledge, Collegio Carlo Alberto, Turin, Italy, December 2013

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We investigate the role of the types of higher education institutions and of the types of academic knowledge for the emergence of innovative start-ups in a region. We distinguish between regular universities, technical universities and universities of applied sciences as well between natural sciences, applied sciences, social sciences and other fields of academic knowledge. We find that academic education and research in the applied sciences and in the natural sciences have the strongest effect on the emergence of new businesses in innovative industries. Distinguishing between different indicators for these types of academic knowledge the strongest effects are found for the number of professors followed by the numbers of students and of external funds attracted.

***Fernanda Puppato on “Structural change and industrial wage inequality in Latin America” (with Uwe Cantner)”***

1st PhD Workshop in Economics of Innovation, Complexity and Knowledge, Collegio Carlo Alberto, Turin, Italy, December 2013

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This paper studies structural change dynamics associated with productivity changes in the Latin American manufacturing sector as well as their impact on cross-sectoral wage inequality. We carry out our analysis on a panel data for 7 LA countries, spanning over 37 years (1970-2007), called Analysis Program of Industrial Dynamics (PADI, Katz and Stumpo, 2001; obtained from ECLAC, CEPAL being its Spanish acronym) through three main steps. Firstly, a decomposition of productivity change is performed to capture the effect of sector development on productivity (drawing from Cantner and Krüger, 2008). Secondly, the study addresses the direction of such change by calculating the weight of R&D sectors added value in proportion to the total added value for the 38 years. Here, structural change refers to a restructuring process that occurs at an inter-industry level, when particular manufacturing industries gain in relative participation in the overall production. Thirdly, we focus on industrial inequality by examining the distribution of wages at a sectoral level through the Theil index. The main goal of this study is

to disentangle the mechanisms through which structural change affects wage inequality particularly considering the scarcity of studies from an evolutionary perspective. The Skill Biased Technical Change theory proved in many cases to be unsatisfactory in explaining wage dispersion over the long run (see Card and Di Nardo, 2002). After this theory, which culminated in the 1990s, no salient economic theory seems to have produced additional or alternative insights on this relationship. This paper aims to fill in this gap by identifying and explaining the predictors of structural change and its effect on wage distribution.

***Simone Vannuccini on “(European) Industrial Policy, Smart Specialization and a New View of General Purpose Technologies” (with Uwe Cantner)”***

1st PhD Workshop in Economics of Innovation, Complexity and Knowledge, Collegio Carlo Alberto, Turin, Italy, December 2013

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In order to build the conditions for a sound industrial policy at the European level, the paper suggests a novel theoretical framework to deal with the concept of General Purpose Technologies. A new view of General Purpose Technologies is proposed with the aim to critically refine the conceptualization of Smart Specialization policies, rapidly emerging as the European Commission approach to industrial development.

***Ivan Savin on “Emergence of Innovation Networks from R&D Cooperation with Endogenous Absorptive Capacity” (with Abiodun Egbetokun)”***

Invited LEM Seminar at Scuola Superiore Sant'Anna in Pisa, Italy, December 2013

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This paper extends the existing literature on strategic R&D alliances by presenting a model of innovation networks with endogenous absorptive capacity. The networks emerge as a result of bilateral cooperation over time between firms occupying different locations in the knowledge space. Social capital is ignored, and firms ally purely on the basis of knowledge considerations. Partner selection is driven largely by absorptive capacity which is itself influenced by cognitive distance and investment allocation between inventive and absorptive R&D. Cognitive distance between firms changes as a function of the intensity of cooperation and innovation. Within different knowledge regimes, we examine the structure of networks that emerge and how firms perform within such networks. Our model replicates some stylized empirical results on network structure and the contingent effects of network position on innovative performance. We find networks that exhibit small world properties which are generally robust to changes in the knowledge regime. Second, subject to the extent of knowledge spillovers, certain network strategies such as occupying brokerage positions or maximising accessibility to potential partners pay off. Third and most importantly, absorptive capacity plays an important role in network evolution: firms with different network strategies indeed differ in the build-up of absorptive capacity.

**Javier Changoluisa on “The Effect of New Business Formation on the Productivity of Incumbent Establishments: Evidence from Germany” (with Michael Fritsch)**

2nd Geography of Innovation International Conference, University of Utrecht, The Netherlands, January 2014

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We analyze the effect of new business formation on the productivity of manufacturing incumbents. There is a significant positive effect of entry into manufacturing as well as of entry into R&-intensive manufacturing sectors in the previous years. However, no robust evidence was found for an effect of entry into knowledge intensive business services. In line with related literature, we found that incumbents that are further away of the technology frontier show higher productivity improvements. Nevertheless, the main finding of the study is that regular new business formation has a stronger positive effect on the productivity growth of those incumbents that are further away of the technology frontier.

**Sandra Kublina on “Entrepreneurship, Growth, Regional Growth Regimes” (with Michael Fritsch)**

2nd Geography of Innovation International Conference, University of Utrecht, The Netherlands, January 2014

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We distinguish four types of regional growth regimes according to the relationship between new business formation and economic development. The distinguishing characteristics of these regime types are analyzed in order to identify the reasons behind the different growth performance. Although there is a high degree of persistence of these growth regimes over time, typical transition patterns between the regime types can be identified. We try to explain these patterns and draw conclusions for policy. The evidence clearly suggests that entrepreneurship is a key driver of economic development that has rather long-run effects.

**Alina Sorgner on “Does Entrepreneurship pay in Germany?” (with Michael Fritsch and Alexander Kritikos)**

12th Annual Interdisciplinary European Conference on Entrepreneurship Research, University of Applied Sciences HTW Chur, Swiss, February 2014

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We compare the income of self-employed persons with and without employees with the income of dependently employed people in Germany. Our results show that self-employed with employees tend to earn significantly higher income than their salaried counterparts, while the income of solo self-employed tends to be significantly lower than that of comparable employees. An exception is the group of solo-entrepreneurs without a vocational degree for which we find a significantly positive effect. In general, the results point out that self-employed people achieve improvement of their earnings only within the first three years after a start-up, as compared to their income before the start-up, independently of their previous employment status and earnings position. Our data do not provide indication that entrepreneurial earnings are overestimated.



**Michael Fritsch on "Types of Higher Education Institutions, Fields of Knowledge and Innovative Start-ups - An Empirical Investigation" (with Ronney Aamoucke)**

Workshop "Beyond spillovers? Channels and effects of knowledge transfer from universities", University of Kassel, Germany, March 2014

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We investigate the role of the types of higher education institutions and of the types of academic knowledge for the emergence of innovative start-ups in a region. We distinguish between regular universities, technical universities and universities of applied sciences as well between natural sciences, applied sciences, social sciences and other fields of academic knowledge. We find that academic education and research in the applied sciences and in the natural sciences have the strongest effect on the emergence of new businesses in innovative industries. Distinguishing between different indicators for these types of academic knowledge the strongest effects are found for the number of professors followed by the numbers of students and of external funds attracted.

**Recent Scholarly Publications of GSBC Members**

Alberti, F., Fischer, S., Güth, W., Tsutsui, K., Concession Bargaining: An Experimental Comparison of Protocols and Time Horizons, Jena Economic Research Papers 052-2013.

Altmann, U., Steffanowski, A., Wittmann, W. W., Kramer, D., Bruckmayer, E., Pfaffinger, I., Steyer, R. & Strauß, B., Verlängerungen ambulanter Psychotherapien: Eine Studie zu Patienten-, Behandlungs- und Verlaufsmerkmalen, Psychotherapie, Psychosomatik, Medizinische Psychologie (in press).

Bayer, W. & Metz, J., Anmerkung zu BGH, U. v. 15.1.2013 – II ZR 83/11 (KG), EWIR (2013), 679-680.

Bayer, W. & Scholz, P., Buchbesprechung von Röck, Die Rechtsfolgen der Existenzvernichtungshaftung, 2011, in: GmbHR (2013), R334.

Bayer, W., Hoffmann, T., Gesellschafterstrukturen deutscher GmbH, GmbHR (2014), 12-17.

Bayer, W., Hoffmann, T., Kapitalmarktreaktionen beim Delisting, AG (2013), R371-R374.

Bayer, W., Hoffmann, T., Kurseffekte bei m Downgrading, AG (2013), R3-R5.

Bayer, W., Rezension von Scholz, GmbHG, 11. Aufl. Bd. I, in: AG (2013), 611-612.

Bayer, W., Scholz, P. & Weiß, C., Anmeldung und Berechtigungsnachweis bei Einberufung einer Hauptversammlung durch die Aktionärsminorität gem. § 122 Abs. 3 AktG, AG (2013), 742-751.

Bayer, W., Scholz, P. & Weiß, C., Die Absage der Hauptversammlung durch den Vorstand im Kontext des § 122 AktG, ZIP (2014), 1-9.

Bayer, W., Übertragung von GmbH-Geschäftsanteilen im Ausland nach der MoMiG-Reform, GmbHR (2013), 897-914.

Boschma, R. & Fritsch, M., Location of the Creative Class in Seven European Countries, in: Mellander, C., Florida, R., Asheim, B. & Gertler, M. (eds.), The Creative Class Goes Global, Abingdon: Routledge (2014), 227-240.

Brachert, M., Cantner, U., Graf, H., Günther, J. & Schwartz, M., Which regions benefit from emerging industries?, European Planning Studies 21(11) 2013, 1703-1707.

Bruttel, L. & Güth, W., Alternating or compensating? An Experiment on the repeated sequential best shot game 045-2013.

- Bruttel, L. & Güth, W., Tit for Others' Tat Repeated Prisoner's Dilemma Experiments with Third-Party Monitoring and Indirect Punishment, Jena Economic Research Papers 043-2013.
- Cantner U., Göthner, M. & Stützer, M., Team functional heterogeneity and new venture success, *Homo Oeconomicus* 30(2) 2013, 163-182.
- Cantner U., Ökonomische Dimensionen des Human Enhancement, in: Ebert, U., Riha, O. & Zerling, L. (eds.), *Mensch der Zukunft - Hintergründe, Ziele und Problem des Human Enhancement*, Sächsische Akademie der Wissenschaften, Leipzig, 2013, 133-146.
- Cantner, U., Günther, J., Hassan, S.S. & Jindra, B., Outward FDI from the Central and Eastern European Transition Economies - A Discrete Choice Analysis of Location Choice within the European Union, MPRA Paper No. 51817, 2013.
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Best Wishes,



Uwe Cantner (Director)

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