Information Tour
The Excellence Initiative
German Universities in Transition
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The German Excellence Initiative

The Excellence Initiative was launched in June 2005 by the heads of the federal and state governments. Its goal is to strengthen top-level research at German universities, to create outstanding conditions for early career researchers, to foster cooperation between disciplines and institutions, and to intensify international cooperation. In short: The Excellence Initiative aims to qualify Germany to compete internationally with the world’s best and to make Germany a strong research location which is attractive to outstanding researchers.

The Excellence Initiative is not only changing the German research system but is actually driving the country as a whole forward. Within the first funding period it has created well over 4,000 new jobs in research and science, and it is contributing to innovation in business and industry.

The DFG is jointly responsible for running the initiative together with the German Council of Science and Humanities. A total of €1.9 billion was awarded during the programme’s initial five-year phase. In June 2009 the German federal and state governments decided to continue the Excellence Initiative for a second programme phase, providing additional funding of € 2.4 billion through to 2017.

“The Excellence Initiative is a success story,” said Professor Matthias Kleiner, President of the Deutsche Forschungsgemeinschaft (DFG). “There has surely been no other programme in previous decades that has changed the German university and research system as profoundly as the Excellence Initiative. In a short period of time it has already made huge gains in strength and international regard - and will continue to do so in years to come.”

The Excellence Initiative has three lines of funding:

- Graduate Schools train outstanding doctoral researchers within an excellent research environment. They serve as an instrument of quality assurance in promoting early career researchers and offer large networks that cover wide areas of research and investigate overriding issues.

- Clusters of Excellence promote cutting-edge research. Their policy is to engage in scientific networking and collaboration in research fields of particular promise for the future. They also offer excellent training conditions and career opportunities for early career researchers.

- The funding for Institutional Strategies covers all the measures that allow universities to develop and expand their areas of international excellence over the long term and to establish themselves as leading institutions in international competition. To be eligible for this line of funding, an institution must have been approved for at least one cluster of excellence and at least one graduate school.

This brochure presents examples of projects running under the Excellence Initiative and its three funding lines. It provides information on the main research topics, on the participating universities and other institutions, along with the contact details of the key people involved.

Facts and Figures

- Second funding phase: 2012 – 2017
- Funding awarded: € 2.4 billion for 39 universities
- Proposals evaluated: 143 proposals from 46 universities
- Finally approved:
  - 45 Graduate Schools (of which 33 projects are from the first funding phase; funding for each School: on average € 1.6 million per year)
  - 43 Clusters of Excellence (of which 31 projects are from the first funding phase; funding for each Cluster: on average € 6.6 million per year)
  - 11 Institutional Strategies (of which 6 Strategies are from the first funding phase; funding for each University: on average € 12.5 million per year)
Excellence Initiative: Funding Decisions of the Second Phase
Funding Period: 1 November 2012 to 31 October 2017

The Decision-making Process

Decisions were made on the basis of a multi-tiered review process. After a preliminary selection of draft proposals in March 2011, the selected proposals were assigned to international peer review panels. The proposals were evaluated for research quality, the reputation of the participating researchers, support for early career researchers, and research structures. A novelty in this second phase is that first-time proposals were competing with renewal proposals from the first phase. 84 previously funded institutions and 59 first-time applicants participated.
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<td>Aachen</td>
<td>Integrative Production Technology for High-Wage Countries</td>
<td>RWTH Aachen</td>
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<td></td>
<td>Tailor-Made Fuels from Biomass</td>
<td>RWTH Aachen</td>
<td><a href="http://www.fuelcenter.rwth-aachen.de">www.fuelcenter.rwth-aachen.de</a></td>
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<td>Aachen</td>
<td>Nanosystems Initiative Munich (NIM)</td>
<td>Universität Augsburg</td>
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<td>Berlin</td>
<td>Topoi: The Formation and Transformation of Space and Knowledge in Ancient Civilizations</td>
<td>Humboldt-Universität zu Berlin</td>
<td><a href="http://www.topoi.org">www.topoi.org</a></td>
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<td>Berlin</td>
<td>Image Knowledge Gestaltung: An Interdisciplinary Laboratory</td>
<td>Humboldt-Universität zu Berlin</td>
<td><a href="http://www.interdisciplinary-laboratory.hu-berlin.de/en">www.interdisciplinary-laboratory.hu-berlin.de/en</a></td>
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<td>Berlin</td>
<td>Unifying Concepts in Catalysis (UniCat)</td>
<td>Technische Universität Berlin</td>
<td><a href="http://www.unicat.tu-berlin.de">www.unicat.tu-berlin.de</a></td>
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<td>Bielefeld</td>
<td>Cognitive Interaction Technology</td>
<td>Universität Bielefeld</td>
<td><a href="http://www.cit-ec.de">www.cit-ec.de</a></td>
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<td>Bremen</td>
<td>RESOLV (Ruhr Explores Salvation): Understanding and Design of Solvent Controlled Processes</td>
<td>Ruhr-Universität Bochum</td>
<td><a href="http://www.ruhr-uni-bochum.de/salvation">www.ruhr-uni-bochum.de/salvation</a></td>
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<td>The Ocean in the Earth System — MARUM — Center for Marine Environmental Sciences</td>
<td>Universität Bremen</td>
<td><a href="http://www.marum.de/en/Research.html">www.marum.de/en/Research.html</a></td>
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<td>Chemnitz</td>
<td>Merge Technologies for Multifunctional Lightweight Structures – MERGE</td>
<td>Technische Universität Chemnitz</td>
<td><a href="http://www.to-chemnitz.de/MERGE">www.to-chemnitz.de/MERGE</a></td>
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<tr>
<td>Constance</td>
<td>Cultural Foundations of Social Integration</td>
<td>Universität Konstanz</td>
<td><a href="http://www.excl.de">www.excl.de</a></td>
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<td>Cologne</td>
<td>Cellular Stress Responses in Aging-Associated Diseases</td>
<td>Universität zu Köln</td>
<td><a href="http://www.ceccad.uni-koeln.de">www.ceccad.uni-koeln.de</a></td>
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<td>Düsseldorf</td>
<td>Cluster of Excellence on Plant Sciences: From Complex Traits Towards Synthetic Modules (CEPLAS)</td>
<td>Heinrich-Heine-Universität Düsseldorf</td>
<td><a href="http://www.ceplas.eu">www.ceplas.eu</a></td>
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<td>Dresden</td>
<td>Regenerative Therapies: From Cells to Tissues to Therapies: Engineering the Cellular Basis of Regeneration</td>
<td>Technische Universität Dresden</td>
<td><a href="http://www.crt-dresden.de">www.crt-dresden.de</a></td>
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<td>Gießen</td>
<td>NeuroCure - towards a better outcome of neurological disorders</td>
<td>Charité - Universitätsmedizin Berlin</td>
<td><a href="http://www.neurocure.de/en">www.neurocure.de/en</a></td>
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<td>Göttingen</td>
<td>Microscopy at the Nanometer Range and Molecular Physiology of the Brain</td>
<td>Georg-August-Universität Göttingen</td>
<td><a href="http://www.cmpb.uni-goettingen.de">www.cmpb.uni-goettingen.de</a></td>
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<td>Hannover</td>
<td>Integrated Climate System Analysis and Prediction (CISAP)</td>
<td>Universität Hamburg</td>
<td><a href="http://www.klimacampus.de/clisap.html">www.klimacampus.de/clisap.html</a></td>
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<td>Hannover</td>
<td>REBIRTH: From Regenerative Biology to Reconstructive Therapy</td>
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<td>Cellular Networks: From Molecular Mechanisms to Quantitative Understanding of Complex Functions</td>
<td>Ruprecht-Karls-Universität Heidelberg</td>
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### Clusters of Excellence

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<tr>
<td>Munich</td>
<td>Munich Centre for Advanced Photonics (MAP)</td>
<td>LMU</td>
<td><a href="http://www.munich-photonics.de">www.munich-photonics.de</a></td>
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<td></td>
<td>Origin and Structure of the Universe</td>
<td>TUM</td>
<td><a href="http://www.universe-cluster.de">www.universe-cluster.de</a></td>
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<tr>
<td>Munich</td>
<td>Nanosystems Initiative Munich (NIM)</td>
<td>LMU, TUM Universität Augsburg</td>
<td><a href="http://www.nano-initiative-munich.de/en">www.nano-initiative-munich.de/en</a></td>
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<td>Oldenburg</td>
<td>Hearing-Kall: Models, technology and solutions for diagnostics, restoration and support of hearing</td>
<td>Carl von Ossietzky Universität Oldenburg</td>
<td><a href="http://www.hearingresearch.uni-oldenburg.de">www.hearingresearch.uni-oldenburg.de</a></td>
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<tr>
<td>Hannover</td>
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<td>Leibniz Universität Hannover Medizinische Hochschule Hannover</td>
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<tr>
<td>Saarbrücken</td>
<td>Multimodal Computing and Interaction: Robust, Efficient and Intelligent Processing of Text, Speech, Visual Data and High Dimensional Representations</td>
<td>Universität des Saarlandes</td>
<td><a href="http://www.mmci.uni-saarland.de/en">www.mmci.uni-saarland.de/en</a></td>
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<td>Stuttgart</td>
<td>Simulation Technology</td>
<td>Universität Stuttgart</td>
<td><a href="http://www.simtech.uni-stuttgart.de/index.en.html">www.simtech.uni-stuttgart.de/index.en.html</a></td>
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<tr>
<td>Tübingen</td>
<td>Centre for Integrative Neuroscience</td>
<td>Eberhard-Karls-Universität Tübingen</td>
<td><a href="http://www.cin.uni-tuebingen.de">www.cin.uni-tuebingen.de</a></td>
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### Graduate Schools

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<td>Aachen Institute for Advanced Study in Computational Engineering Science (AICES)</td>
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<td>Bamberg</td>
<td>Bamberg Graduate School of Social Sciences (BAGSS)</td>
<td>Otto-Friedrich-Universität Bamberg</td>
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<tr>
<td>Bayreuth</td>
<td>Bayreuth International Graduate School of African Studies (BIGSAS)</td>
<td>Universität Bayreuth</td>
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<td>Berlin</td>
<td>Graduate School of North American Studies</td>
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<td>Graduate School of East Asian Studies (GEAS)</td>
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<td></td>
<td>School of Analytical Sciences (SALSA)</td>
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<td>Berlin</td>
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<td><a href="http://www.math-berlin.de">www.math-berlin.de</a></td>
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<td></td>
<td>Berlin Brandenburg School for Regenerative Therapies (BSRT)</td>
<td>Charité - Universitätsmedizin Berlin</td>
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<td></td>
<td>Berlin School of Integrative Oncology (BSIO)</td>
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<td>Rheinische Friedrich-Wilhelms-Universität Bonn</td>
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<td></td>
<td>Graduate School of Decision Sciences</td>
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<td>Darmstadt</td>
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<td>Darmstadt Graduate School of Energy Science and Engineering</td>
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<td>Erlangen Graduate School in Advanced Optical Technologies (SAOT)</td>
<td>Friedrich-Alexander-Universität Erlangen-Nürnberg</td>
<td><a href="http://www.oat.uni-erlangen.de/saot">www.oat.uni-erlangen.de/saot</a></td>
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<td>Freiburg Spemann Graduate School of Biology and Medicine (SSBM)</td>
<td>Albert-Ludwigs-Universität Freiburg im Breisgau</td>
<td><a href="http://www.sgbm.uni-freiburg.de">www.sgbm.uni-freiburg.de</a></td>
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<td>Freiburg</td>
<td>International Graduate Centre for the Study of Culture (IGCSC)</td>
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<td>Jena</td>
<td>Jena School for Microbial Communication (JSMC)</td>
<td>Friedrich-Schiller-Universität Jena</td>
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<td>Kaiserslautern</td>
<td>Materials Science in Mainz (MAINZ)</td>
<td>Technische Universität Kaiserslautern</td>
<td><a href="http://www.mainz.uni-mainz.de">www.mainz.uni-mainz.de</a></td>
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<td>Mainz</td>
<td>Karlsruhe School of Optics &amp; Photonics</td>
<td>Karlsruher Institut für Technologie (KIT)</td>
<td><a href="http://www.ksp.de">www.ksp.de</a></td>
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<td>Karlsruhe School of Elementary Particle and Astroparticle Physics: Science and Technology (KSETA)</td>
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<td>Christian-Albrechts-Universität zu Kiel</td>
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<td>Mannheim</td>
<td>Graduate School of Economic and Social Sciences (GESS): Empirical and Quantitative Methods</td>
<td>Universität Mannheim</td>
<td><a href="http://gess.uni-mannheim.de/GESS">http://gess.uni-mannheim.de/GESS</a></td>
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<td>Graduate School of Systemic Neurosciences - GSN Munich</td>
<td>GSFlip GmbH</td>
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<td>Stuttgart</td>
<td>Graduate School of Excellence advanced Manufacturing Engineering (GSoME)</td>
<td>Universität Stuttgart</td>
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<td>Tübingen</td>
<td>LEAD - Learning, Educational Achievement, and Life Course Development: An Integrated Research and Training Program</td>
<td>Eberhard Karls Universität Tübingen</td>
<td><a href="http://www.lead.uni-tuebingen.de">www.lead.uni-tuebingen.de</a></td>
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<td>Ulm</td>
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<td>Universität Ulm</td>
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<td>Dresden</td>
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<td>Heidelberg</td>
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<td>Ruprecht-Karls-Universität Heidelberg</td>
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<td>Eberhards Karls Universität Tübingen</td>
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Institutional Strategies to Promote Top-Level Research:

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</table>
**Bonn Institutions and Projects to be visited**

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### Key Facts

**University of Cologne**

- **Students**: 35,641 from abroad 12%
- **Graduates**: 4,812 from abroad 9%
- **Doctorates**: 699 from abroad 11%
- **Professors**: 517
- **Annual budget**: €364.7 million
- **Third-party funding**: €51.2 million

**University of Bonn**

- **Students**: 27,132 from abroad 13.4%
- **Graduates**: 4,183
- **Doctorates**: 470 approx. per year
- **Professors**: 508
- **Annual budget**: €399.8 million
- **Third-party funding**: €84.8 million

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*Key facts for the years 2010/2011
Source: Funding proposal “Bonn-Cologne Graduate School of Physics and Astronomy (BCGS)”
Website University of Cologne, Website University of Bonn (= Statistics)*

*Including Third-party funding
(Source: Federal Statistical Office, reporting year 2010)
Graduate School
Bonn-Cologne Graduate School of Physics and Astronomy (BCGS)

The Bonn-Cologne Graduate School of Physics and Astronomy (BCGS) is an honours programme of graduate studies run jointly by the Universities of Bonn and Cologne. Much like the Anglo-American model of graduate schools, BCGS runs a five-year integrated programme spanning the 2 years of M.Sc. studies and 3 (or more) years for the PhD.

BCGS attracts gifted students with a programme of advanced teaching and competitive research.

Its aim is to educate a leadership class of students to address challenging tasks in science and society. In a nutshell, the BCGS training programme is characterized by the principles of “research early on” in the M.Sc. phase and “continued learning” in the PhD phase. Close mentoring and a series of networking events for the School’s students promote a “corporate identity”.

New appointments to be made in theoretical astrophysics and quantum optics (cold atoms) will boost competitiveness in research at national and international level which will enhance the advanced education programme offered by the BCGS.

The foundation underlying the scheme of advanced education is a broad and balanced programme of excellent research by both departments. BCGS offers high-quality academic training in three areas of cutting-edge science:

- Particle & nuclear physics
- Astronomy & astrophysics
- Condensed matter, statistical physics, and photonics.

The research spectrum is further enhanced by cooperation with the Max Planck Institute for Radio Astronomy and the Forschungszentrum Jülich.

Webiste
www.gradschool.physics.uni-bonn.de

Funding Period
1 November 2007 to 31 October 2017

Host Universities
University of Cologne
University of Bonn

Participating Institutions
Max Planck Institute for Radio Astronomy, Bonn
Forschungszentrum Jülich

Coordinator
Prof. Dr. Martin Zirnbauer
Universität zu Köln
Institut für Theoretische Physik
Zülpicher Straße 77
50937 Köln, Germany
Tel +49 221 4704302
E-mail zirnbauer@uni-koeln.de

Deputy Coordinator
Prof. Dr. Norbert Wermes
Rheinische Friedrich-Wilhelms-Universität
Bonn
Physikalisches Institut
Nussallee12
53115 Bonn, Germany
Tel +49 228 733533
E-mail wermes@uni-bonn.de
**Key Facts**

**Bielefeld University**

Students: 18,500 from abroad: 7.7%

Graduates: 3,170

Doctorates: 219

Professors: 294

Annual budget*: €223.4 million

Third-party funding: €48.9 million

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Key facts for the years 2010-2012

Source: Statistical Yearbook Bielefeld University 2011

Website Bielefeld University [=> Facts & Figures]

* including Third-party funding

(Source: Federal Statistical Office, reporting year 2010)
Bielefeld Institutions and Projects to be visited

Cluster of Excellence
Cognitive Interaction Technology (CITEC)

CITEC has established an exciting new field founded on a vision of a human-friendly technology that adapts to users’ needs and is easy and intuitive for ordinary people to use: Cognitive Interaction Technology. This Cluster of Excellence aims to elucidate the principles and mechanisms of cognition in order to find ways of replicating them in technology and thus enable service and assistance at a new, deep level. Assembling a rich and highly interdisciplinary research environment with more than thirty groups from informatics, biology, linguistics, psychology, and sports science – all working together in close proximity in an exceptional infrastructure – has enabled CITEC scientists to take big strides forward in motion intelligence, attentive systems, situated communication and memory and learning.

CITEC has been highly successful in technology transfer. The ambitious scientific goal will be to change the paradigm for developing cognitive systems. This will involve a new level of integration around large demonstrator systems and allow CITEC to embrace a new application area: providing assistance to elderly and disabled people.

In just a few years, CITEC has achieved a leading position in its field with a very strong publication record, top-ranked results and a very high level of participation in international project consortia. The early transfer of most of the newly created group leader positions to the regular university budget provides a strong basis for the long-term sustainability of CITEC. The sustainability of all its structures and an ambitious scientific roadmap are the pillars upon which CITEC will advance Cognitive Interaction Technology into the future.

Website
www.cit-ec.de

Funding Period
1 November 2007 to 31 October 2017

Host University
Bielefeld University

Cooperation Partners
HONDA (Robotics), MIELE (Household appliances), BERTELSMANN (Multimedia), BETHEL (Foundation that supports the elderly and the disabled)

Coordinator
Prof. Dr. Helge Ritter
Universität Bielefeld
Technische Fakultät
Postfach 10 01 31
33501 Bielefeld, Germany
Tel +49 521 10612123
E-mail helge@cit-ec.uni-bielefeld.de
Random phenomena appear in many aspects of our present day world – in its scientific description and its technological and societal transformation. Sometimes they manifest themselves as small perturbations, but sometimes as forces with great impact. It is therefore not surprising that stochastics, the mathematical theory of random processes, has taken great strides forwards in parallel with the explosion of science and technology in the past century.

The International Research Training Group (IRTG), run jointly by the Chinese Academy of Sciences in Beijing and Bielefeld University, originated from the research centre BiBoS (Bielefeld-Bonn-Stochastics). In the past 25 years it has hosted hundreds of scientists from all over the world. Collaboration between the two spokespersons of the IRTG started in this way in 1989.

To benefit from the inspiration inherent in this lively two-way exchange of ideas, the IRTG links stochastic research with two of its fields of application: physics and economics. The application of stochastic methods plays an important part in both fields and it is stimulating a considerable amount of mathematical research.

In recent years, with the growing number of shared modelling concepts, there has been increasing recognition of the fruitfulness of dialogue between the two fields of applications – the emerging discipline of “econophysics” underscores this point.

A major goal of the IRTG is to provide a generation of young scientists from China and Germany with a truly interdisciplinary education at a high level. The graduates gain a strong background in all three areas: stochastics, mathematical physics and mathematical economics.

Website
www.igk.math.uni-bielefeld.de

Funding Period
1 January 2006 to 31 December 2014

Host University
Bielefeld University

Participating Institutions
Chinese Academy of Sciences, Institute of Applied Mathematics, Academy of Mathematics and Systems Science, Beijing, China

Coordinator
Prof. Dr. Michael Röckner
Faculty of Mathematics
Universität Bielefeld
Universitätsstraße 25
33615 Bielefeld, Germany
Tel +49 521 1064774,
E-mail roeckner@math.uni-bielefeld.de,
www.math.uni-bielefeld.de/~roeckner/
### Key Facts

**Technische Universität Dresden (TU Dresden)**

- **Students**: 36,534 from abroad 11.4%
- **Graduates**: 5,883 from abroad 9.8%
- **Doctorates**: 669 from abroad 16%
- **Professors**: 510

**Annual budget**
- Approx. €423.1 million

**Third-party funding**
- Approx. €168.8 million

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**Institutional Strategy**
- "The Synergetic University"

**Cluster of Excellence**
- "Center for Regenerative Therapies Dresden (CRTD)"

**Collaborative Research Centre**
- "Textile-reinforced composite components for function-integrating multi-material design in complex lightweight applications"

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Key facts for the years 2010/2011

Source: Website TU Dresden (=> Facts & Figures of TU Dresden)  
Rector’s Office TU Dresden

* including Third-party funding  
(Source: Federal Statistical Office, reporting year 2010)
Institutional Strategy
TU Dresden – The Synergetic University

The Technische Universität Dresden (TUD) is the largest Technical University in Germany—and a major university offering a range of subjects and research fields covering every scientific discipline. TUD’s academic indicators prove its outstanding performance in Engineering, Medicine, in the Natural Sciences and in the Humanities & the Social Sciences. With this deep and broad expertise, TUD concentrates particularly on the major challenges faced by modern society, which can often only be solved by means of synergies and interdisciplinary approaches. TUD’s institutional strategy, “The Synergetic University”, aims at providing conditions and initiating processes that allow it to reach its full potential. It concentrates on four core measures:

- To recruit and support outstanding talent by implementing innovative forms of appointment and support of young scientists, for example.
- To establish integrating structures by reorganizing the 14 faculties into 5 schools.
- To decentralize and strengthen support processes.
- To further develop the DRESDEN concept, a unique research alliance of the TUD and six Fraunhofer institutes, three Max Planck institutes, three Leibniz institutes, one Helmholtz institute, the University Hospital Carl Gustav Carus, the Staatliche Kunstsammlungen Dresden, the Deutsches Hygiene-Museum Dresden, and the Saxon State and University Library with the aim of maximising synergies in research, teaching and infrastructure.

The Institutional Strategy is the central instrument for realising TUD’s overall long-term development plan and will transform the university in terms of its strategic approach, structures and organisational culture.

Website
www.tu-dresden.de/exzellenz

Funding Period
1 November 2012 to 31 October 2017

Host University
Technische Universität Dresden (TU Dresden)

Cooperation Partners
DRESDEN concept institutions and other national and international non-university research institutions [e.g. DKFZ, HZM, DLR, UFZ, Caesar, NIH, WHO]
Industrial Companies [e.g. Global Foundries, Siemens, ThyssenKrupp, Vodafone, Infineon, SAP]

Rector
Prof. Dr.-Ing. habil. Deng/University of Auckland Hans Müller-Steinhagen
Technische Universität Dresden
Mommsenstraße 11
01062 Dresden, Germany
Tel +49 351 4633-4312 / -3487
E-mail rektor@tu-dresden.de
The DFG Center for Regenerative Therapies Dresden was established in 2006 and has quickly become an internationally renowned research institute in regenerative biomedicine. With fifteen core groups supported by a strong member network of 95 principle investigators from four research institutions in Dresden, the CRTD has a large critical mass performing internationally competitive research in regenerative therapy in haematology, diabetes, neural and retinal degeneration and bone defects. These research areas are supported by state-of-the-art technology platforms, centralised administration and management of clinical and commercial exploitation. Collectively, the CRTD aims to promote regenerative processes with:

- Comparative biology of regeneration to identify pathways and targets that can be manipulated in mammals.
- Protection of damaged cells to promote in-vivo recovery.
- Stem cells (pluripotent and adult) to develop cell-based assays and clinical therapy.
- Biomaterials that promote regeneration in vitro and in vivo.
- Clinical cell therapy.

With the strong presence of the Faculty of Medicine of the Technische Universität Dresden and the recently funded “national health research centres” in Dresden, there is a driving focus on clinical translation that includes ongoing experimental clinical studies using haematopoietic stem cell, regulatory T cell, mesenchymal stromal cell, and pancreatic islet cell therapies. The CRTD has fulfilled all the requirements of a Regenerative Biology and Medicine Institute with high level critical mass, further acknowledged by a strong commitment from the TUD and the Free State of Saxony to support its development beyond the expected 2017 funding period.

Cluster of Excellence
Center for Regenerative Therapies Dresden (CRTD)

Website
www.crt-dresden.de

Funding Period
1 November 2006 to 31 December 2017

Host University
Technische Universität Dresden

Participating Institutions
Max Planck Institute of Molecular Cell Biology and Genetics (MPI-CBG), Dresden
University Hospital, “Carl Gustav Carus” Dresden
Leibniz Institute of Polymer Research (IPF) Dresden
Max Bergmann Center for Biomaterials, Dresden
Heart Center Dresden
Paul Langerhans Institute Dresden (PLID)
German Center for Diabetes Research (DZD), Dresden/München
German Center Neurodegenerative Diseases (DZNE), Dresden/Bonn
Helmholtz-Zentrum Dresden-Rossendorf

Cooperation Partners (selected)
Amgen Cooperation, Miltenyi Biotec GmbH, Beta-O2 Israel, San Raffaele Scientific Institute Milan, German Bone Marrow Donor Center [DKMS], German Society for Tissue Transplantation (DGFG), DRK - German Red Cross Blood Donor Program, PRO RETINA Foundation

Director CRTD
Prof. Dr. Michael Brand
Technische Universität Dresden
Zentrum für Regenerative Therapien Dresden - CRTD
Fetscherstraße 105
01307 Dresden, Germany
Tel +49 351 45882300
E-mail michael.brand@crt-dresden.de
Dresden Institutions and Projects to be visited

Collaborative Research Centre
Textile-Reinforced Composite Components for Multi-Material Design with Integrated Functions in Complex Lightweight Applications

Lightweight structures using textile-reinforced composite materials offer numerous advantages over conventional designs and open up new fields of innovation, especially in vehicle and machinery engineering. The ability of multi-material textile systems to integrate functions is of outstanding importance. The relatively new group of textile composite materials with a thermoplastic matrix is predestined for efficient, high-performance applications in a very wide range of industries. As well as permitting considerable weight reduction, they feature high strength and rigidity, positive damping and crash properties, widely diverse textile technologies, economical manufacture and are suitable for both small and large-series production. From the point of view of materials science, construction design and also technology, at best only individual aspects of the variability of textile composites in combination with different materials has been investigated to date and they have yet to be exploited universally.

The goal of the Collaborative Research Centre is to build on the scientific foundations and methods for the development and use of innovative textile composites for multi-material applications with a high level of functional integration. To this end, the total process chain “from filament to component” is to be explored in theory and examples realised. Interaction with the traditional industrial and textile research activities in the local area allows the Collaborative Research Centre to be seen as an innovation engine in the field of technical textiles, enabling sustained growth for the Saxony region, especially in modern motor vehicle engineering.

Website
www.tu-dresden.de/mw/ilk/sfb639

Funding Period
2004 to 2015

Host University
Technische Universität Dresden

Participating Institutions
Leibniz Institute of Polymer Research Dresden
Fraunhofer Institute for Photonic Microsystems, Dresden
Fraunhofer IWS (Institute for Laser and Surface Technology), Dresden

Speaker
Prof. Dr.-Ing. habil. Prof. E. h. Dr. h. c. Werner A. Hufenbach
Technische Universität Dresden
Institut für Leichtbau und Kunststofftechnik
01062 Dresden, Germany
Tel +49 351 46338140
E-mail ilk@ilk.mw.tu-dresden.de

Coordinator
Dr. Niels Modler
Technische Universität Dresden
Institut für Leichtbau und Kunststofftechnik
01062 Dresden, Germany
Tel +49 351 46338556
E-mail n.modler@ilk.mw.tu-dresden.de
Key Facts

### Technische Universität Berlin (TU Berlin)

<table>
<thead>
<tr>
<th>Key Facts</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students</td>
<td>28,893</td>
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<tr>
<td>from abroad</td>
<td>20 %</td>
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<td>Graduates</td>
<td>3,241</td>
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<td>Doctorates</td>
<td>455</td>
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<tr>
<td>Professors</td>
<td>385</td>
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<tr>
<td>Annual budget*</td>
<td>€ 428.3 million</td>
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<td>Third-party funding</td>
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</table>

### Freie Universität Berlin (FU Berlin)

<table>
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<tr>
<td>Students</td>
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<td>from abroad</td>
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<tr>
<td>Graduates</td>
<td>4,200</td>
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<td>Annual budget*</td>
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<td>Third-party funding</td>
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</table>

### Humboldt University of Berlin (HU Berlin)

<table>
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<th>Key Facts</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Students</td>
<td>23,745</td>
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<td>Doctorates</td>
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<td>Professors</td>
<td>427</td>
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<tr>
<td>Annual budget*</td>
<td>€ 226 million</td>
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<tr>
<td>Third-party funding</td>
<td>€ 89.2 million</td>
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</tbody>
</table>

* including Third-party funding
(Source: Federal Statistical Office, reporting year 2010)
# without the Charité (joint university medical centre of HU/FU Berlin)
Institutional Strategy
Veritas – Iustitia – Libertas.
The International Network University

Freie Universität Berlin is a full-spectrum university, comprising twelve academic departments and three central institutes offering more than 150 academic degree programs. In line with its founding principles of freedom, truth, and justice, Freie Universität Berlin stands for open-mindedness, cross-border research, and social responsibility. Its institutional strategy, which was successful in the German Excellence Initiative in 2007 and 2012, is shaping the university’s future as an “International Network University”. Three strategic centres at the heart of the institutional strategy have created the ideal conditions in which to optimise top-level research and promote the university’s networks:

- The Center for Research Strategy strengthens research initiatives, providing, for example, startup grants for interdisciplinary focus areas, analysis and advice on research strategies.
- The Dahlem Research School sets standards for structured doctorates and offers doctoral candidates a broad range of courses and support measures.
- The Center for International Cooperation promotes international collaboration on research and the recruitment of junior academics. It builds primary partnerships with top universities worldwide and contributes to the international reputation of the Freie Universität Berlin and German scholarship through seven liaison offices in key regions of the world.

All the strategic centres are actively involved in the university’s new career-path model that combines different funding and career development measures for junior academics. Over the next few years, more emphasis will be placed on the Freie Universität’s regional network through partnerships with selected non-university research institutions (see p. 35) within the career-path model.

Website

Funding Period
1 November 2007 to 31 October 2017

Host University
Freie Universität Berlin

Participating Institutions
Max Planck Institute for Human Development, Berlin
Max Planck Institute for Molecular Genetics, Berlin
Max Planck Institute for Infection Biology, Berlin
Max Planck Institute for the History of Science, Berlin
Helmholtz Center Berlin
Helmholtz Center Geesthacht, Teltow
Social Science Research Center Berlin
Berlin University for Professional Studies

President
Prof. Dr. Peter-André Alt
Freie Universität Berlin
Kaiserswerther Str. 16-18
14195 Berlin, Germany
Tel +49 30 83873100
E-mail praesident@fu-berlin.de
Berlin Institutions and Projects to be visited

Graduate School
Berlin School of Mind and Brain

Driven by the idea that the most challenging problems concerning the human mind require the cooperation of numerous disciplines in brain science and the humanities, the Berlin School of Mind and Brain (M&B) was founded in 2006 as an interdisciplinary graduate programme. Its mission is to train outstanding young scientists in the entire scope of mind and brain research and to sharpen the international profile of this field in the Greater Berlin area.

The focus of research at the School is on the interface between the humanities and behavioural sciences with the neurosciences. The main topics of research are:

- conscious and unconscious perception
- decision-making
- language
- brain plasticity and lifespan ontogeny
- mental disorders and brain dysfunction
- human sociality and the brain

Under the joint leadership of a mind and a brain scientist, the school provides an English-language doctoral program that is notable for 105 publications by 41 doctoral candidates in a period of just four years, a 3.3-year completion period for doctorates and a smooth transition of alumni into the job market. Doctoral candidates become part of a programme that offers ample opportunities in one of Europe’s largest mind and brain research communities.

M&B’s sustainability strategy beyond 2017 is based on secured funding, additional agreements with non-university institutions, participation in HU’s Integrative Research Institute for the Life Sciences, and long-term interdisciplinary research initiatives (such as the Einstein Foundation).

Website
www.mind-and-brain.de

Funding Period:
1 November 2006
to 31 October 2017

Host University
Humboldt University of Berlin (HU Berlin)

Participating Institution
Charité Berlin (University Medical Centre)

Coordinators
Prof. Dr. Michael Pauen
Humboldt-Universität zu Berlin
Berlin School of Mind and Brain
Luisenstraße 56
10117 Berlin, Germany
Tel +49 30 20931707
E-mail michael.pauen.hu-berlin.de

Prof. Dr. Arno Villringer
Max-Planck-Institut für Kognition- und Neurowissenschaften
Stephanstraße 1a
04103 Leipzig, Germany
Tel +49 341 99402220
E-mail villringer@cbs.mpg.de
The rise and development of modern metropolises is closely connected to global economic, ecological, political, cultural, and infrastructure networks. Surprisingly, the historical dimensions of such metropolitan-global connections have hardly been investigated up to now. While scholars in the field of urban studies consider the rise of global cities as an essentially contemporary phenomenon, those historians who are interested in long-term global processes have paid little attention to the specific role of cities.

The International Graduate Research Program (IGK) will promote this field of research by fostering the dialogue between historical and interdisciplinary urban studies. With the new concept of “metropolitanism” („Metropolitanität“) the IGK wants to shed light on the complex interrelationships between the internal and external networks of metropolises. The IGK’s goal is to examine how the political, social, cultural, economic, and ecological foundations of urban developments have affected the built environment and everyday life. The IGK focuses on the following four research clusters:

- Building Metropolitanism: Architecture and Urban Planning
- Moving Metropolitanism: Migration and Mobility
- Thinking Metropolitanism: Knowledge and Communication
- Natural Metropolitanism: Environment and Sustainability

By bringing together several universities in Berlin, New York, and Toronto, the IGK extends its institutional affiliations to create a unique transatlantic research network for the education of young academics. It will function as a interface for intellectual dialogue on scientific concepts, research topics, and methods and it will bring together young and established academics from these institutions and around the world.
Cluster of Excellence
TOPOI – The Formation and Transformation of Space and Knowledge in Ancient Civilizations

The Excellence Cluster TOPOI was launched on 1 November 2007 by the Freie Universität Berlin and the Humboldt University of Berlin. The objective of Topoi is to explore the interdependency of space and knowledge in ancient civilizations. During the past five years, spatial systems and varied forms of knowledge have been investigated as interdependent factors in the development of ancient cultures. This joint effort involving more than 30 traditional disciplines has succeeded in creating a strong sense of cooperation, and has transcended traditional subject boundaries by adopting cross-disciplinary approaches. In the project’s second phase, the investigation of the crucial role of knowledge for spatial understanding in the ancient world will be intensified, starting with the historical evolution of developing societies and continuing to the creation and diffusion of knowledge and early technology. The four research areas “Spatial Environment and Conceptual Design”, “Constructing Historical Space”, “Perception and Representation” and “Theory and Science” will examine this interrelationship in paradigmatic case studies ranging over a period extending from the late Neolithic to the post-classical era.

The Berliner Antike-Kolleg (BAK), a globally unique long-term centre for the promotion of ancient and classical studies in Berlin, was founded within TOPOI in May 2011. The BAK comprises the full interdisciplinary and inter-institutional Berlin Graduate School of Ancient Studies (BerGSAS), the Research Center for Ancient Studies, which will foster international collaborative projects and networking, and the forum “Repositories – Editions – Materials” a portal for permanent data storage. The aim of Topoi is to develop the BAK as a high-profile research institute.

Website
www.topoi.org

Funding Period
1 November 2007 to 31 October 2017

Host Universities
Freie Universität Berlin
Humboldt University of Berlin

Participating Institutions
Technische Universität Berlin
Hochschule für Technik und Wirtschaft, Berlin
Berlin University of the Arts
Brandenburg University of Technology, Cottbus
Berlin-Brandenburg Academy of Sciences and Humanities
German Archaeological Institute, Berlin
Max-Planck-Institut for the History of Science, Berlin
Stiftung Preußischer Kulturbesitz, Berlin

Coordinators
Prof. Dr. Michael Meyer
Freie Universität Berlin
Institut für Prähistorische Archäologie
Altensteinstraße 15
14195 Berlin, Germany
Tel +49 30 83855078
E-mail michael.meyer@fu-berlin.de

Prof. Dr. Gerd Graßhoff
Humboldt-Universität zu Berlin
Institut für Philosophie
Unter den Linden 6
10099 Berlin, Germany
Tel +49 30 209399066
E-mail gerd.grasshoff@hu-berlin.de
Tour Programme

Sunday, 9 December 2012, Bonn
Individual Arrival in Bonn, Check in at the Ameron Hotel Königshof

Monday, 10 December 2012, Bonn

08:45
Meet in hotel lobby, Check out of hotel
Transfer from hotel to DFG Head Office in Bonn

09:30-11:30
Deutsche Forschungsgemeinschaft (DFG), Head Office in Bonn
Welcome
Beate Konze-Thomas, Director General of Research Centres, Careers and Infrastructure Department (DFG)

The Higher Education System in Germany
Gordon Bölling, International Department, German Rectors’ Conference (HRK)

Overview of the Excellence Initiative
Beate Konze-Thomas

Information about the Tour
Sybilla Tinapp, Programme Officer, International Affairs/Research Marketing (DFG)

11:30-12:00
Transfer

12:00-13:30
Lunch at the Zur Lindenwirtin Aennchen restaurant
Welcome
Dorothee Dzwonnek, Secretary General (DFG)

Guests at lunchtime:
Karl Schneider, Dean of the Faculty of Mathematics and Natural Sciences (University of Cologne), Armin B. Cremers, Deputy Rector (Finances, University of Bonn), Martin Zirnbauer, Coordinator of the Bonn-Cologne Graduate School of Physics and Astronomy (University of Bonn)

14:00-15:30
University of Bonn
Bonn-Cologne Graduate School of Physics and Astronomy
Hosts: Martin Zimbauer, Coordinator of the Graduate School (University of Cologne)
Norbert Wermes, Deputy Coordinator of the Graduate School (University of Bonn)

Also participating:
Karl Schneider, Dean of the Faculty of Mathematics and Natural Sciences (University of Cologne), Armin B. Cremers, Deputy Rector (Finances, University of Bonn)

16:00-19:00
Transfer to Bielefeld

Presentation: (International) Research Training Groups
Marion Schulte zu Berge, Programme Officer, Research Careers (DFG)

19:00
Arrival in Bielefeld, Check in at the Hotel Bielefelder Hof

19:30
Reception and dinner at the GeistReich restaurant in the Hotel Bielefelder Hof

Guests at dinner:
Gerhard Sagerer, Rector (Bielefeld University), Martin Egelhaaf, Vice-Rector for research, young researchers and transfer (Bielefeld University), Martina Kessel, Vice Rector for International Affairs and Communication (Bielefeld University)
Tuesday, 11 December 2012, Bielefeld

08:15
Meet in hotel lobby, Check out
Transfer to University of Bielefeld

09:00-12:00
Bielefeld University
Welcome
Gerhard Sagerer, Rector Bielefeld University

Cluster of Excellence “Cognitive Interaction Technology”
Host: Helge Ritter, Coordinator of the Cluster of Excellence

International Research Training Group “Stochastics and Real World Models”
Host: Michael Röckner, Speaker of the International Research Training Group

12:30-19:30
Transfer to Dresden
Presentation: Collaborative Research Centres
Thomas Ebertshäuser, Programme Director, Research Centres (DFG)

Approx
15:30-16:30
Coffee break at the Café Alt Ilsenburger Nagelschmiede (Ilsenburg, Harz)

20:00
Arrival in Dresden, Check in at the NH Hotel Altmarkt

20:30
Dinner in the hotel restaurant

Wednesday, 12 December 2012, Dresden

08:30
Meet in hotel lobby.
Transfer to the Technische Universität Dresden

09:00-12:00
Technische Universität Dresden
Institutional Strategy “The Synergetic University”
Host: Hans Müller-Steinhagen, Rector Technische Universität Dresden

Thursday, 13 December 2012, Berlin

08:15-11:30
Meet in hotel lobby,
Check out, Transfer to Berlin

12:00-13:00
Lunch in Berlin at the Papillon restaurant in the Seminaris CampusHotel

Guests at lunchtime:
Peter-André Alt, President (Freie Universität Berlin), Petra Tallafuss-Koch Deputy Head, International Network University Executive Board (Freie Universität Berlin)

13:30-15:00
Freie Universität Berlin

Institutional Strategy “International Network University”
Hosts: Peter-André Alt, President (Freie Universität Berlin), Petra Tallafuss-Koch, Deputy Head, International Network University Executive Board (Freie Universität Berlin)
Tour Programme

Friday, 14 December 2012, Berlin

08:30  Meet in hotel lobby, Transfer to the Technische Universität Berlin

09:00-10:30  Technische Universität Berlin
International Research Training Group (IRTG) “The world in the city: Metropolitanism and Globalization from the 19th Century to the Present”
Host: Dorothee Brantz, Speaker of the International Research Training Group (IRTG)

Also participating:
Paul Uwe Thamsen, Vice-President (Technische Universität Berlin)

10:30-11:00  Transfer to the Humboldt University of Berlin

11:00-12:00  Humboldt University of Berlin
Cluster of Excellence “Topoi - The Formation and Transformation of Space and Knowledge in Ancient Civilizations”
Host: Michael Meyer, Coordinator at the Cluster of Excellence, Freie Universität Berlin
Gerd Graßhoff, Coordinator at the Cluster of Excellence, Humboldt University of Berlin

Also participating: Peter A. French, Vice-President (Research, Humboldt University of Berlin)

12:00-13:00  Lunch at the 12 Apostel restaurant

13:30-14:30  Altes Museum Berlin
Second part of the presentation of TOPOI guided by representatives of TOPOI

14:30-15:00  Transfer to DFG Office Berlin

15:00-17:00  DFG Office Berlin
Final Discussion
Chair: Klaus Wehrberger Head of Division, Research Centres (DFG)
Christine Windbichler, Vice-President (DFG)

Also participating:
Helena Schulte to Bühne, Federal Ministry of Education and Research

17:00  Snacks and beverages at the Christmas Market (near the DFG Office Berlin)

Saturday, 15 December 2012, Berlin
Individual Departure
**Members of the Canadian Delegation**

Robert Baker  
Vice-Dean (Research and Infrastructure),  
Faculty of Arts and Science,  
University of Toronto  
vresearch.artsci@utoronto.ca

John Capone  
Vice-President (Research),  
University of Western Ontario  
jpc@uwo.ca

Sophie D’Amours  
Vice-Rector (Research),  
Université Laval  
sophie.damours@vrr.ulaval.ca

Harley Dickinson  
Strategic Advisor (International),  
University of Saskatchewan  
harley.dickinson@usask.ca

D. George Dixon  
Vice-President (Research, International), University of Waterloo  
dgdixon@uwwaterloo.ca

Cynthia Fekken  
Associate Vice-Principal (Research),  
Queen’s University  
fekkenc@queensu.ca

Digvir S. Jayas  
Vice-President (Research),  
University of Manitoba  
digvir.jayas@umanitoba.ca

Peter Mascher  
Acting Associate Vice-President (International Affairs),  
McMaster University,  
mascher@mcmaster.ca

Ed McCauley  
Vice-President (Research),  
University of Calgary  
mccauley@ucalgary.ca

Mona Nemer  
Vice-President (Research),  
University of Ottawa  
vrrech@uottawa.ca

John Newhook  
Associate Vice-President (Research),  
Dalhousie University  
john.newhook@dal.ca

Jörg R. Sack  
Professor and SUN-chair, School of Computer Science,  
Member Excellence Initiative Grants Committee, Carleton University  
sack@scs.carleton.ca

Geneviève Tanguay  
Vice-Rector (Research, Creation, Innovation), University of Montreal  
genevieve.tanguay@umontreal.ca

Eli Turk  
Director (International Affairs),  
McGill University  
eturk@mcgill.ca

**Participants of DFG Head Office**

Complete Tour

Rainer Gruhlisch  
Programme Officer International Affairs  
Rainer.Gruhlisch@dfg.de

At individual points of the tour

Christine Windbichler  
Vice-President  
Christine.Windbichler@dfg.de

Dorothée Dzwonnek  
Secretary General  
Dorothée.Dzwonnek@dfg.de

Beate Konze-Thomas  
Director General of Department Research Centres, Careers and Infrastructure  
Beate.Konze-Thomas@dfg.de

Ulrike Eickhoff  
Head of Division Quality Assurance and Programme Development  
Ulrike.Eickhoff@dfg.de

Johanna Kowol-Santen  
Head of Division Chemistry and Process Engineering  
Johanna.Kowol-Santen@dfg.de

Klaus Wehrberger  
Head of Division Research Centres  
Klaus.Wehrberger@dfg.de

Karin Zach  
Head of Division Physics, Mathematics and Geosciences  
Karin.Zach@dfg.de

Meike Andermann  
Programme Officer Research Careers  
Meike.Andermann@dfg.de

Jürgen Breitkopf  
Programme Director Research Careers  
Juergen.Breitkopf@dfg.de

Thomas Ebertshäuser  
Programme Director Research Centres  
Thomas.Ebertshauser@dfg.de

Anselm Fremmer  
Programme Director Research Careers  
Anselm.Fremmer@dfg.de

Gernot Gad  
Programme Director Research Careers/International Affairs  
Gernot.Gad@dfg.de

Sabine Münkemöller  
Programme Director Research Careers  
Sabine.Moenkemoeller@dfg.de

Christine Petry  
Programme Director Research Centres  
Christine.Petry@dfg.de

Vera Pfister  
Programme Officer Life Sciences/Research Marketing  
Vera.Pfister@dfg.de

Marion Schulte zu Berge  
Programme Officer Research Careers  
Marion.Schultezuberge@dfg.de

Sybilla Tinapp  
Programme Officer International Affairs/Research Marketing  
Sybilla.Tinapp@dfg.de

Oliver Wiegner  
Programme Director Research Centres  
Oliver.Wiegner@dfg.de
**9 – 10 December**

Hotel Bonn  
Ameron Hotel Königshof  
Adenauerallee 9  
53111 Bonn  
Tel: +49 228 2601-0  
www.hotel-koenigshof-bonn.de

**10 – 11 December**

Hotel Bielefeld  
Hotel Bielefeld Hof  
Am Bahnhof 3  
D-33602 Bielefeld  
Tel: +49 521 5282-0  
www.bielefelder-hof.de

**11 – 13 December**

Hotel Dresden  
NH Hotel Altmarkt  
An der Kreuzkirche 2  
01067 Dresden  
Tel: +49 351 501550  
www.nh-hotels.de/nh/en/hotels/germany/dresden/nh-dresden-altmarkt.html

**13 – 15 December**

Hotel Berlin  
NH Berlin Mitte  
Leipziger Str. 106-111  
10117 Berlin  
Tel: +49 30 203760  

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**10 December**

Lunch, 12:00 – 13:30  
Restaurant Zur Lindenwirtin Aennchen  
Aennchenplatz 2, 53173 Bonn  
Tel: +49 228 312051  
www.aennchen.de

Reception and Dinner, 19:30  
Restaurant GeistReich  
at the Hotel Bielefelder Hof  
Am Bahnhof 3, 33602 Bielefeld  
Tel: +49 521 5282 635  
www.bielefelder-hof.de/restaurant_geistreich_bielefeld

**11 December**

Coffee break, 15:30 – 16:30  
Cafe Alt Ilsenburg Nagelschmiede  
Ilsetal 21, 38871 Ilsenburg  
Tel: +49 39452 48585  
www.alt-ilsenburger-nagelschmiede.de

Dinner, 20:00  
Restaurant of the NH Dresden Altmarkt  
An der Kreuzkirche 2, 01067 Dresden  
Tel: +49 351 501550  
www.nh-hotels.de/nh/en/hotels/germany/dresden/nh-dresden-altmarkt.html

**12 December**

Dinner, 19:00  
Restaurant Kurfürstenschänke  
An der Frauenkirche 13, 01067 Dresden  
Tel: +49 351 42 44 82 80  
www.kurfuerstenschaeanke-dresden.de

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**13 December**

Lunch, 12:00  
Restaurant Papillon  
at Seminaris Campus Hotel  
Takustr. 39, 14195 Berlin  
Tel: +49 30 55 77 97 0  

Reception and Dinner, 19:00  
Canadian Embassy Berlin  
(Timber Hall)  
Leipziger Platz 17, 10117 Berlin  
Tel: +49 30 20 312-0  
www.germany.gc.ca

**14 December**

Lunch, 12:00 – 13:00  
Restaurant 12 Apostel  
Georgenstr. 2, 10117 Berlin Mitte  
Tel: +49 30 201 02 22  
www.12-apostel.de

Snacks and Beverages, 17:00  
Christmas Market Gendarmenmarkt  
Gendarmenmarkt, 10117 Berlin  
Tel: +49 30 20 29 54 0  
www.gendarmenmarktberlin.de
Contact Persons and Important Numbers

For any questions regarding the tour, please contact:

Sybilla Tinapp  
Sybilla.Tinapp@dfg.de  
Tel. +49 151 108 53 842

Vera Pfister  
Vera.Pfister@dfg.de  
+49 151 108 53 876

Sonja Schaffartzik  
Sonja.Schaffartzik@dfg.de  
+49 151 108 53 998

Police  
110

Ambulance  
112

Telephone enquiry services  
11 88 0

Taxicab services  
Bonn  
+49 228 55 55 55

       Bielefeld  
+49 521 97 111 111

       Dresden  
+49 351 211 211

       Berlin  
+49 30 20 20 20 20

Airlines  
Lufthansa  
+49 1805 805 805

Air Canada  
+1 888 247 2262 option 4  
+49 69 27115-111

Railway Service (Deutsche Bahn)  
+ 49 180 5 99 66 33
Notes

Photo credits

p. 7, 21, 52 CITEC/Bielefeld University
p. 15 kniveset/Fotolia.com
p. 17 Bonn-Cologne Graduate School of Physics and Astronomy (BCGS)

p. 19 vectorine/Fotolia.com
p. 23 IGK Stochastics and Real World Models/ Bielefeld University
p. 25 Felix Pergande/Fotolia.com
p. 27 Technische Universität Dresden/Eckold
p. 29 CRTD/Technische Universität Dresden
p. 31 SFB 639/Technische Universität Dresden
p. 33 JiSIGN/Fotolia.com
p. 35 David Ausserhofer (Foto oben)
Peter Himsel (Foto unten)

p. 37 Alexander Schippel (Foto oben)
Leo Seidel (Foto unten)

p. 39 Center for Metropolitan Studies
p. 41 B. Wannenmacher/FU Berlin,
Fachbereich Geowissenschaften

p. 50 Ameron Hotel Königshof/Hotel Bielefelder Hof/
NH Hotel Altmarkt/NH Berlin Mitte
“Research in Germany – Land of Ideas”
Under the brand “Research in Germany – Land of Ideas”, several German research and funding organisations have joined forces to organise measures and events to present German innovation and research in key international markets. Launched by the Federal Ministry of Education and Research (BMBF) in 2006, the initiative seeks to strengthen and expand R&D collaboration between Germany and international partners and to foster mobility among scientists.

More information:
www.research-in-germany.de

Contact
Deutsche Forschungsgemeinschaft (DFG)
German Research Foundation
Kennedyallee 40
53175 Bonn, Germany
postmaster@dfg.de
www.dfg.de