HeKKSaGOn – The German-Japanese University Network

Conference Documentation

5th Japanese-German University Presidents' Conference

Fostering Student Mobility to shape tomorrow's Researchers and Innovators

September 29th and 30th, 2016

Karlsruhe Institute of Technology 

KIT – The Research University in the Helmholtz Association
Mission Statement

In consideration of
- the traditionally good relations between Japan and Germany and
- the long-lasting successful collaboration between research institutions of
  the two countries

and remaining of the conviction
- that all major global problems can only be solved by international
  cooperation in research and by the open and free exchange of knowledge
  and research results,
- that changes in one part of the world have effects in other parts,
- that it is the responsibility of the scientifically and technologically
  advanced nations to find solutions not only for their own countries but
  on a global scope
- that universities should provide education and training to students and
  young researchers which prepare them for the demands and challenges
  of a globalized world.

Six leading research universities from Japan and Germany decided in July 2010 to
establish a bi-national network in order to intensify their cooperation in research
and teaching in areas of high importance for the welfare of their societies and
mankind as a whole.

The network members – Heidelberg University, Kyoto University,
Karlsruhe Institute of Technology, Tohoku University, University of Göttingen and
Osaka University – are institutions with common research interests, but differing
profiles. By combining the complementary strengths and fields of expertise of
its members and encouraging interdisciplinary collaboration, the network will
enhance its research potential and create a “critical mass” for innovative solutions
that can be globally applied. In addition, varying national academic traditions and
approaches offer the chance to overcome culturally conditioned limitations and to
open up new perspectives.
The bi-national network aims at contributing to the welfare both of our countries and of the world at large. In order to achieve its objectives, the consortium has agreed to concentrate on the following activities:

- to set up research groups on specific aspects related to the priority areas
- to involve individual researchers of other research institutions and industrial partners in research projects
- to cooperate in the training of young researchers and to develop joint programmes for graduate/doctoral students
- to promote the mobility of academic staff, young researchers and students within in the consortium
- to cooperate as a consortium in competing for funding from national and international agencies
- to disseminate research results and make them available to the public for innovation and application.

The Presidents and the Rector of the participating universities hereby commit themselves to support and encourage cooperation among the partner institutions and sign this declaration in witness thereof.
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Agenda

- Official Plenary Program
- Scientific Program
- Networking Program
Thursday, September 29th

8:05 a.m.  Pick-up from B&B Hotel
8:15 a.m.  Pick-up from Novotel
8:25 a.m.  Pick-up from ibis Hotel and Schlosshotel in front of ibis Hotel
8:35 a.m.  Pick-up from ACHAT Plaza Hotel

We kindly ask you to be ready for pick-up in the hotel lobby five minutes before departure.

Guided KIT Campus Tours

9:00 a.m. – 12:00 noon
Visiting & Lab Tour Campus North and Campus South (optional)

1) KIT Campus South Lab Tour – Visit to different high-end labs at our university campus, embedded in a motivating study environment

2) KIT Historical Tour – Follow KIT from its early beginnings as Polytechnical School on its way to the unique Research University in the Helmholtz Association

3) Large-scale Research Facilities Tour Campus North – Visit to some of KIT’s most fascinating research laboratories operating in the range from fundamental to applied research

1st Japanese-German HeKKSaGOn Students’ Workshop

9:00 a.m. – 12:00 noon
“Bridging Cultures through Mobility in Research, Higher Education and Innovation” – Part I Discussion
Building 10.11, Room 111.1 / 111.2, Kaiserstraße 12

Hotel Pick-up for guests who do not wish to participate in the guided KIT Campus Tours:

11:30  Novotel
11:40  ibis Hotel
11:50  ACHAT Plaza Hotel
12:00 noon – 1:00 p.m.  Registration and Lunch
“Würth Building” 11.30, Foyer, Engelbert-Arnold-Straße 2

Opening Ceremony

Conference “Fostering Student Mobility to shape tomorrow’s Researchers and Innovators”

“Würth Building” 11.30, Senatssaal, 3rd Floor, Engelbert-Arnold-Straße 2

Chair: Prof. Dr.-Ing. Holger Hanselka, President KIT

1:00 p.m. – 1:30 p.m. Welcome and Opening Remarks

Prof. Dr.-Ing. Holger Hanselka, President KIT

Wolfram Jäger, First Mayor, City of Karlsruhe

Prof. Dr. Susumu Satomi, President Tohoku University

Hidenao Yanagi, Consul General, Consulate General of Japan in Munich

1:30 p.m. – 2:30 p.m. Overview on funding schemes for Japanese-German Cooperation Projects

Dr. Holger Finken, Head of Section Research Fellowship Programs, German Academic Exchange Service (DAAD)

Prof. Dr. Keiichi Kodaira, Director of Bonn Office, Japan Society for the Promotion of Science (JSPS)

Dr. Franziska Langer, Program Officer Asia, International Affairs, German Research Foundation (DFG)

2:30 p.m. – 3:00 p.m. Keynote: “Going Abroad – Founding at home. International Experience as an asset for start-up entrepreneurs”

Christopher Kränzler, lengoo GmbH

3:00 p.m. – 3:30 p.m. Coffee Break
Plenary Session

3:30 p.m. – 4:30 p.m.
Working Group Reports 2015 – 2016 (5 minutes each)

- Working Group I  Prof. Dr. Martin Bastmeyer, KIT
- Working Group II  Prof. Dr. Markus Enders, Heidelberg University
- Working Group III  Prof. Dr. Harald Fuess, Heidelberg University
- Working Group IV  Prof. Dr. Friedemann Wenzel, KIT
- Working Group V  Prof. Dr. Kiyoshi Ueda, Tohoku University
- Working Group VI  Prof. Dr.-Ing. Tamim Asfour, KIT
- Working Group VII  PD Dr. Stephanie Witt, Heidelberg University
- Working Group VIII  Prof. Dr. Wilderich Tuschmann, KIT

4:30 p.m. – 6:00 p.m.
HeKKSaGOn Universities Presentations (15 minutes each)
“Fostering Student Mobility to shape tomorrow’s Researchers and Innovators”

- Prof. Dr. Bernhard Eitel, President Heidelberg University
- Prof. Dr. Juichi Yamagiwa, President Kyoto University
- Prof. Dr.-Ing. Holger Hanselka, President KIT
- Prof. Dr. Susumu Satomi, President Tohoku University
- Prof. Dr. Ulrike Beisiegel, President University of Göttingen
- Prof. Dr. Shojiro Nishio, President Osaka University

6:15 p.m.  Transfer to Dinner Place

7:30 p.m. – 10:00 p.m.  Welcome Dinner
Winery Dr. Steiner, Siebeldingen, Pfalz

Welcome Toasts

- Prof. Dr.-Ing. Holger Hanselka, President KIT
- Prof. Dr. Bernhard Eitel, President Heidelberg University
- Prof. Dr. Juichi Yamagiwa, President Kyoto University

10:00 p.m.  Transfer back to hotels
Friday, September 30th

8:05 a.m.  Pick-up from B&B Hotel
8:15 a.m.  Pick-up from Novotel
8:25 a.m.  Pick-up from ibis Hotel and Schlosshotel in front of ibis Hotel
8:35 a.m.  Pick-up from ACHAT Plaza Hotel

We kindly ask you to be ready for pick-up in the hotel lobby five minutes before departure.

Parallel Session I:
9:00 a.m. – 12:00 noon
Closed Presidents’ Meeting
Discussion on the future development of HeKKSaGOn
“Würth Building” 11.30, Room 206, 2nd Floor, Engelbert-Arnold-Straße 2
Chair: Prof. Dr.-Ing. Holger Hanselka, President KIT

Parallel Session II:
9:00 a.m. – 12:00 noon
1st Japanese-German HeKKSaGOn Students’ Workshop
“Bridging Cultures through Mobility in Research, Higher Education and Innovation” – Part II Preparation of Presentation
Building 10.11, Room 111.1 / 111.2, Kaiserstraße 12
Parallel Sessions III:

9:00 a.m. – 12:00 noon

Work Group Meetings

KIT Department of Mathematics, Building 20.30, Englerstraße 2

I  Life and Natural Science Fusion
Room 0.014, Ground floor
Chair: Prof. Dr. Martin Bastmeyer, KIT
Co-Chair: Prof. Dr. Motomu Tanaka, Kyoto University and Heidelberg University

II  Coordination Chemistry for Energy Conversion, Catalysis and Nanotechnology
Room 0.016, Ground floor
Chair: Prof. Dr. Markus Enders, Heidelberg University
Co-Chair: Prof. Dr. Masahiro Yamashita, Tohoku University

III  Social Sciences and Humanities
Room 0.019, Ground floor
Chair: Prof. Dr. Harald Fuess, Heidelberg University
Co-Chair: Dr. Alexandra Hausstein, KIT

IV  Disaster Risk and Response – Scientific and Technological Issues
Room 1.008, Basement
Chair: Prof. Dr. Friedemann Wenzel, KIT
Co-Chair: Prof. Dr. Koshimura Shunichi, Tohoku University

V  Dynamic Imaging for Physical, Chemical and Biological Interests
Room 1.009, Basement
Chair: Prof. Dr. Kiyoshi Ueda, Tohoku University
Co-Chair: Prof. Dr. Lorenz S. Cederbaum, Heidelberg University

VI  Robotics – Challenges and Opportunities in the 21st Century
Room 1.011, Basement
Chair: Prof. Dr.-Ing. Tamim Asfour, KIT
Co-Chair: Prof. Dr. Kazuhiro Kosuge, Tohoku University

VII  Japanese-German Neuroscience Research Network Focusing on Psychosis, Affective Disorders and Related Traits
Room 1.012, Basement
Chair: PD Dr. Stephanie Witt, Heidelberg University
Co-Chair: Prof. Dr. Hiroaki Tomita, Tohoku University
VIII  Mathematics at the Interface of Science and Technology towards Innovation
   – Seeds in Mathematics versus Needs outside Mathematics
   Room 1.013, Basement
   Chair: Prof. Dr. Wilderich Tuschmann, KIT
   Co-Chair: Prof. Dr. Takashi Suzuki, Osaka University

IX  New Working Group “Data Science”
   Room 1.014, Basement
   Chair: Prof. Dr. Ramin Yahyapour, University of Göttingen

12:00 noon – 1:30 p.m.  Lunch
   KIT Department of Mathematics, Building 20.30, Foyer

1:30 p.m. – 2:00 p.m.  Group Photo
   Stairs in front of KIT Department of Mathematics, Building 20.30

Plenary Session
   “Würth Building”  11.30, Senatssaal, 3rd Floor, Engelbert-Arnold-Straße 2
   Chair: Prof. Dr.-Ing. Holger Hanselka, President KIT

2:00 p.m. – 2:20 p.m.
   Summary Report of the 1st HeKKSaGOn Student Workshop

2:20 p.m. – 4:15 p.m.
   Summary Reports of the Work Group Meetings
   (10 minutes each)

Working Group I  Prof. Dr. Martin Bastmeyer, KIT
Working Group II  Prof. Dr. Markus Enders, Heidelberg University
Working Group III  Prof. Dr. Harald Fuess, Heidelberg University
Working Group IV  Prof. Dr. Friedemann Wenzel, KIT
Working Group V  Prof. Dr. Kiyoshi Ueda, Tohoku University
Working Group VI  Prof. Dr.-Ing. Tamim Asfour, KIT
Working Group VII  PD Dr. Stephanie Witt, Heidelberg University
Working Group VIII  Prof. Dr. Wilderich Tuschmann, KIT
Working Group IX  Prof. Dr. Ramin Yahyapour, University of Göttingen
4:15 p.m. – 4:45 p.m. Coffee Break

Closing Ceremony

4:45 p.m. – 5:00 p.m.
Summary Report of the Closed Presidents’ Meeting

Prof. Dr.-Ing. Holger Hanselka, President KIT

5:00 p.m. – 5:30 p.m.
Signing of the Joint Statement & Exchange of Presents

HeKKSaGOn University Presidents

Closing Remarks

Prof. Dr.-Ing. Holger Hanselka, President KIT

5:45 p.m. Transfer to Dinner Place

6:15 p.m. – 9:00 p.m. Farewell Dinner
Restaurant Kesselhaus

Toasts

Prof. Dr. Susumu Satomi, President Tohoku University
Prof. Dr. Ulrike Beisiegel, President University of Göttingen
Prof. Dr. Shojiro Nishio, President Osaka University

9:00 p.m. Transfer back to hotels
Curriculum Vitae
of University Representatives
Prof. Dr. rer. nat. habil. Dr. h.c. Bernhard Eitel

President of Heidelberg University
Dr. h.c. Comenius University Bratislava

Personal Information
1959 Born in Karlsruhe

Education
1994 Habilitation, Department of Geography, University of Stuttgart
1989 Doctorate, Department of Geography, University of Stuttgart (with Honours)
1980 – 1986 Studies of Geography and German, University of Karlsruhe (TH)

Academic Career
since 2001 Full Professorship (C4) of Physical Geography, Director of the Institute of Geography, Heidelberg University
2001 Offered full professorship of Physical Geography, University of Bayreuth (declined)
2000 Offered full professorship (C4) of Physical Geography, University of Göttingen (declined)
1995 Professor (C3) of Physical Geography, University of Passau
1989 – 1995 Akademischer Rat (Associate Professor), Department of Geography, University of Stuttgart
1989 Scientist at the Department of Geography, University of Stuttgart
1986 – 1989 Scientist at the Department of Geography and Geoecology, University of Karlsruhe (TH)

Functions in academic self-administration (excerpt)
since 2007 President of Heidelberg University
2005 – 2006 Spokesman of the University Senate
2004 – 2006 Dean of the Combined Faculty of Natural Sciences and Mathematics and Dean of the Faculty of Chemistry and Earth Sciences
Membership (excerpt)

since 2016  Vice Chairman of the Baden-Württemberg state Rectors’ Conference
2012 – 2014  Spokesman of the German U15 – a strategic interest group for outstanding German research universities with top medical faculties

Areas of Research

Geomorphology, Soil Geography, Geoecology, Geoarchaeology, Arid Environments and Dryland Research, in particular in Europe, the Arctic, Southern Africa, South America, China (Xinjiang)

Awards and Distinctions

2016  Farouk El-Baz Award for Desert Research of the Geological Society of America
2015  Awarded Honorary Doctorate by the Comenius University in Bratislava
2011  „Ordre des Palmes Académiques“ by the French Republic for significant contributions to the French higher education system
2010  Member of the German Academy of Sciences Leopoldina, National Academy of Sciences
2008  Member of the German Academy of Science and Engineering (acatech)
Prof. Dr. A. Stephen K. Hashmi

Heidelberg University
Vice-President Research and Structure

Born 1963 in Munich, Germany; German citizen

Chemistry at Ludwig-Maximilians-University Munich, Germany
- Diploma thesis 1988
- Doctoral thesis 1991, both with Prof. G. Szeimies, both on highly strained organic compounds

Postdoctoral studies in the group of Prof. B. M. Trost at Stanford University, California, USA
- Enyne metathesis and related reactions, 1991 – 1993

Habilitation in the group of Prof. Dr. J. Mulzer, 1993 – 1998
- Institute of Organic Chemistry of Free University Berlin, Germany
- Institute of Organic Chemistry of Johann Wolfgang Goethe-University Frankfurt, Germany
- Institute of Organic Chemistry of University of Vienna, Austria

Visiting scientist at the University of Tasmania, Hobart, Australia, 07/1999 – 10/1999

Temporary Professorship for organic chemistry at the Department of Chemistry of Philipps-University Marburg, Germany, 11/1999 – 07/2000

Professor for Organic Chemistry at the Institute of Organic Chemistry of Stuttgart University, Germany, 03/2001 – 03/2007

Chair for Organic Chemistry at the Institute of Organic Chemistry of Ruprecht-Karls-University Heidelberg, Germany, since 04/2007

Dean of the Department of Chemistry and Earth Sciences of Ruprecht-Karls-University Heidelberg, Germany, 10/2010 – 10/2012

Vice Dean of the Department of Chemistry and Earth Sciences of Ruprecht-Karls-University Heidelberg, Germany, 10/2012 – 09/2013

Vice Rector for Research and Structure of Ruprecht-Karls-University Heidelberg, since 10/2013
● Postdoc fellowship of the Deutsche Forschungsgemeinschaft
● Justus von Liebig Fellowship of the Fonds der Chemischen Industrie for the Habilitation
● Habilitanden fellowship of the Deutsche Forschungsgemeinschaft
● Heisenberg Fellowship of the Deutsche Forschungsgemeinschaft
● Dr. Otto Röhm Memorial Fellowship
● Karl-Ziegler Memorial Fellowship
● ORCHEM Prize for natural sciences of the German Chemical Society
● Prize awarded by the Students for the best lecture 2007 in Chemistry at Ruprecht-Karls-University Heidelberg
● Hector Research Prize 2010
● Tan Kah Kee Chemistry Lectureship at Xiamen University, China, 2013
● Fred Pattison Senior Lectureship, University of Western Ontario, London (Ontario), Canada, 2014
● Honourable member („Socio Honorario“) of the „Sociedad Argentina de Investigación en Química Orgánica“, Argentinean Organic Chemistry Society
● Guest professorships: Milan University, Milan (Italy), Gakushuin University, Mejiro (Tokyo, Japan), Tokyo Institute of Technology (Tokyo, Japan, JSPS fellowship), Keio Universtiy (Tokyo, Japan)
● Distinguished Adjunct Professor, King Abdulaziz University (KAU), Jeddah, Saudi Arabien
● Member of the Board of the University Clinic Heidelberg
● Member of the Hector Fellow Academy

● Head of the German Chemical Society at Nordwürttemberg (2002 – 2006)
● Cooperation Partner for chemistry at the German University in Cairo (2003 – 2007)
● Member of the Editorial Board of Gold Bulletin, London, U.K. (since 2007), since 2016 Editor-in-Chief
● More than 290 publications (WOS or SCI : search author Hashmi ASK)
  (Researcher ID : B-5188-2013)

● Funding currently by: DFG, FCI, CSC, State of Baden-Württemberg, BASF, EU (Erasmus, COST), DAAD, Umicore, Brasil
Prof. Dr. Dieter W. Heermann
Heidelberg University
Vice-President International Affairs

Personal Information
1955: Born in Cologne

Education
1986 Habilitation, Mainz University
1983 Doctorate, Boston University (USA)
1976 – 1981 Degrees in Computer Science, Mathematics and Physics, University of Cologne

Academic Career
2011 Visiting professor at the Chinese Academy of Sciences
2008 – 2014 Adjunct professor, The Jackson Laboratory, Maine (USA)
2007 – 2014 Member of the Institute for Molecular Biophysics, Jackson Lab, Maine (USA)
1993 – 2001 Member of the DFG Research Training Group „Modelling and Scientific Computing in Mathematics and the Sciences“, Heidelberg
1989 – present Professor of Theoretical Physics at Heidelberg University
1988 – 1989 Professor of Theoretical Physics at Wuppertal University
1984 – 1987 Assistant professor at Mainz University

Functions in academic self-administration
since 2013 Vice-President International Relations of Heidelberg University
2011 – 2013 Chairman of the examination committee of the Faculty of Physics and Astronomy
2010 – present Member of the Senate of Heidelberg University
2008 – present Depute chairman of the Heidelberg Graduate School of Mathematical and Computational Methods for the Sciences (HGS MathComp)
2006 – present  Member of the Committee for the Relationship with US Universities
1998 – 2000  Co-initiator of the Virtual University Oberrhein (VIROR)
1989 – present  Member of the extended board of directors of the Interdisciplinary Center for Scientific Computing at Heidelberg University

Memberships and further offices

Member of the German Physical Society (DPG)
Member of the American Physical Society (APS)
Member of the Biophysical Society (BPS)
Scientific Referee for the European Union
Prof. Dr. Juichi Yamagiwa
Kyoto University
President

Education/Career

1975 Bachelor of Science, Kyoto University, Japan
1977 Master of Science, Kyoto University, Japan
1987 Doctor of Science, Kyoto University, Japan

Research Interests and Experience: Primatology, Anthropology

Positions Held

Oct. 2014 – Present
President, Kyoto University

2012 – 2013
Member, Administrative Council, Kyoto University

2011–2013
Dean, Graduate School of Science and Faculty of Science, Kyoto University

2009 – 2011
Member, Education and Research Council, Kyoto University

2002 – 2014
Professor, Graduate School of Science, Kyoto University

1998 – 2002
Associate Professor, Graduate School of Science, Kyoto University

1988 – 1997
Assistant Professor, Primate Research Institute, Kyoto University

1983 – 1988
Research Fellow, Japan Monkey Center

1980 – 1983
Research Associate, Japan Institute for African Studies at Nairobi

Awards, Decorations, and Memberships

2006 Daido Life Foundation Encouragement Award for Area Studies
2008 – 2012 President, International Primatological Society
2005 – 2009
President, Primate Society of Japan

1994 – 1998
Director, Conservation, Primate Society of Japan

1999 – 2004
Director of Foreign Affairs, Primate Society of Japan

1995 – 2008
Director, Japanese Society for African Studies

1992 – Present
Member of Primate Specialist Group, IUCN/SSC

2006 – Present
Member, Japan Academic Council

2015 – Present
Member, Central Environment Council of Japan’s Ministry of the Environment

2015 – Present
Vice-president, Japan Association of National Universities

Publications

- Over 110 scientific papers in English in international journals
- Over 150 scientific papers in Japanese
- Authored and contributed to several books on primatology, anthropology, and related fields
Prof. Dr. Kayo Inaba
Kyoto University
Executive Vice-President for Gender Equality, International Affairs, and Public Relations

Education/Career

<table>
<thead>
<tr>
<th>Year</th>
<th>Degree</th>
<th>Institution</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>1973</td>
<td>Bachelor of Science</td>
<td>Nara Women’s University</td>
<td>Japan</td>
</tr>
<tr>
<td>1975</td>
<td>Master of Science</td>
<td>Kyoto University</td>
<td>Japan</td>
</tr>
<tr>
<td>1978</td>
<td>Doctor of Science</td>
<td>Kyoto University</td>
<td>Japan</td>
</tr>
</tbody>
</table>

Research Interests: role of dendritic cells in the initiation and regulation of immune responses

Positions Held

- 2014 – Present: Executive Vice-President for Gender Equality, International Affairs, and Public Relations, Kyoto University
- 2009 – 2013: Chairperson, Kyoto University Gender Equality Promotion Center
- 2009 – 2012: Assistant to the Vice President for General Affairs, Kyoto University
- 2007: Director, The Center for Women Researchers, Kyoto University
- 2003 – 2005: Dean, Graduate School of Biostudies, Kyoto University
- 1999: Visiting Professor, The Rockefeller University, New York
- 1999 – 2016: Professor, Graduate School of Biostudies, Kyoto University
- 1992 – 1999: Associate Professor, Graduate School of Science, Kyoto University
- 1986 – 1999: Visiting Associate Professor, The Rockefeller University, New York
- 1982 – 1986: Visiting Assistant Professor, The Rockefeller University, New York
- 1978 – 1992: Assistant Professor, Graduate School of Science, Kyoto University

Awards, Decorations, and Memberships

- Feb. 2005: Outstanding Merit Award of the Journal of International Immunology
- Mar. 2014: L’Oréal–UNESCO Award for Women in Science
- July 2014: The Kyoto University Shishi Prize
- Nov. 2014: The Akebono Prize (awarded to women who have made outstanding contributions to Kyoto Prefecture)
- Dec. 2014: Women Immunologist Award of the Japanese Society for Immunology (JSI)
- Nov. 2015: Takeda Medical Prize
Awards, Decorations, and Memberships

- Board Member, The Japanese Society for Immunology
- Vice-Chairperson, The Japanese Dendritic Cell Society
- Member, The Society for Leukocyte Biology
- Member, The New York Academy of Science
- Member, The American Association of Immunologists

Publications

- 240 scientific papers in English in international journals
- 170 scientific papers in Japanese
Prof. Dr.-Ing. Holger Hanselka
Karlsruhe Institute of Technology
President

Education/Career

12/1992  • Doctorate: Dr.-Ing. at TU Clausthal, 1992, supervisors: Prof. Dr.-Ing. habil. Werner Hufenbach and Prof. Dr.-Ing. Günter Niederstadt
  • Subject: “Ein Beitrag zur Charakterisierung des Dämpfungsverhaltens polymerer Faserverbundwerkstoffe“ (Contribution to Characterizing the Damping Behavior of Polymer Fiber Composites)


Positions Held

Since 10/2013 President of Karlsruhe Institute of Technology (KIT)
Since 10/2013 Vice-President of the Helmholtz Association of National Research Centers, responsible for the research field energy
07/2012 – 09/2013 Integration of the Deutsches Kunststoff-Institut DKI (German Plastics Institute) into Fraunhofer LBF, establishment of the new institute area “Plastics”
02/2011 – 09/2013 Acquisition and extension of the “Center for System Reliability in Electric Mobility“ ZSZ-e
01/2011 – 09/2013 • Vice-President for Knowledge and Technology Transfer of TU Darmstadt
  • Coordinator of the Fraunhofer project “Systems Research in Electric Mobility“
01/2009 – 10/2013 • Spokesperson of the Collaborative Research Center SFB 805 “Managing Uncertainty in Load-bearing Systems of Mechanical Engineering
  • Coordinator of the LOEWE-Zentrum AdRIA

Until 09/2013 Head of the Research Area “Functional Materials – Materials in Function” of TU Darmstadt
10/2006 – 10/2013 Head of the integrated European research project (IP) “Intelligent Materials for Active Noise Reduction INMAR”
2004 – 2013 Spokesperson of the Fraunhofer Alliance Adaptronics
4/2001  Director of the Fraunhofer Institute for Structural Durability and System Reliability LBF, Darmstadt, and Head of the Institute for System Reliability and Machine Acoustics (SzM) as well as University Professor at the Technical University of Darmstadt

12/1997 – 3/2001  Holder of the Chair for Adaptronics (C3) and Head of the Experimental Mechanics Group, Professor at the Otto von Guericke University of Magdeburg


Awards, Decorations, and Memberships

2010  Member of the Advisory Council of Electric Mobility of the State Government of Hesse

Since 05/2009  ● Member of acatech – National Academy of Science and Engineering, Munich

● Member of the Governing Board der Joint Technology Initiative (JTI) – Clean Sky (FP 7)

● Member of the Council of the FAG Kugelfischer Foundation

10/2006 – 09/2012  Member of the Presidential Council of the Fraunhofer Gesellschaft e.V., Chairman of the Fraunhofer Materials and Components Group

2002 – 2006  Member of the European Sustainable Surface Transport Advisory Group SSTAG
Dr. Ulrich Breuer
Karlsruhe Institute of Technology (KIT)
Vice President Finance and Business Affairs

Work experience

<table>
<thead>
<tr>
<th>Dates</th>
<th>Occupation or position held</th>
<th>Type of business or sector</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 2012 onwards</td>
<td>Vicepresident for Finances and Business Affairs, Karlsruhe Institute for Technology</td>
<td>German National Research Laboratory and University of the State of Baden-Wuerttemberg</td>
</tr>
<tr>
<td>January 2009 – December 2011</td>
<td>Director of Administration and Finance, Helmholtz-Zentrum Berlin für Materialien und Energie GmbH</td>
<td>German National Research Laboratory</td>
</tr>
<tr>
<td>July 2005 – December 2008</td>
<td>Director of Administration and Finance, Hahn-Meitner-Institut Berlin GmbH</td>
<td>German National Research Laboratory</td>
</tr>
<tr>
<td>May 2000 – June 2005</td>
<td>Head of the Department for Scientific and Technical Planning, Forschungszentrum Jülich GmbH</td>
<td>German National Research Laboratory</td>
</tr>
<tr>
<td>January 1995 – April 2000</td>
<td>Assistant of the Chairman of the Board of Directors, Forschungszentrum Jülich GmbH</td>
<td>German National Research Laboratory</td>
</tr>
<tr>
<td>January 1991 – December 1994</td>
<td>Head of the Office for Public Relation, Industrial and International Affairs, Forschungszentrum Jülich GmbH</td>
<td>German National Research Laboratory</td>
</tr>
<tr>
<td>May 2000 – June 2005</td>
<td>Head of the Department for Scientific and Technical Planning, Forschungszentrum Jülich GmbH</td>
<td>German National Research Laboratory</td>
</tr>
<tr>
<td>January 1995 – April 2000</td>
<td>Assistant of the Chairman of the Board of Directors, Forschungszentrum Jülich GmbH</td>
<td>German National Research Laboratory</td>
</tr>
<tr>
<td>January 1991 – December 1994</td>
<td>Head of the Office for Public Relation, Industrial and International Affairs, Forschungszentrum Jülich GmbH</td>
<td>German National Research Laboratory</td>
</tr>
<tr>
<td>Dates</td>
<td>1988 – 1990</td>
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<td></td>
</tr>
<tr>
<td>Title of qualification awarded</td>
<td>Doctor’s degree in physics (Dr rer nat)</td>
<td></td>
</tr>
<tr>
<td>Principal subjects/occupational skills covered</td>
<td>Thesis Title: ‘Thermal Behaviour of Surface Structures of Single Crystals: Surface Structure and Anisotropy of the Surface Free Energy’</td>
<td></td>
</tr>
<tr>
<td>Name and type of organisation providing education and training</td>
<td>Rheinisch-Westfälische Technische Universität Aachen, Germany</td>
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<td>Dates</td>
<td>1981 – 1987</td>
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<tr>
<td>Title of qualification awarded</td>
<td>Diplom in physics</td>
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<tr>
<td>Name and type of organisation providing education and training</td>
<td>Rheinisch-Westfälische Technische Universität Aachen, Germany</td>
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</tr>
</tbody>
</table>
Dr. Elke Luise Barnstedt
Karlsruhe Institute of Technology (KIT)
Vice President for Human Resources and Law

Academic Background and Education

1975 – 1980 Studies of Law at the University of Göttingen
11/1982 – 07/1985 Legal clerkship at the Higher Regional Court of Celle
07/1988 Doctoral Examination at the University of Göttingen; Ph.D.

Professional Career

04/1988 – 02/1990 Head of the department of academic affairs (former University of Karlsruhe)
03/1990 – 01/1992 Head of the department of human resources and budget (former University of Karlsruhe)
02/1992 - 10/1992 Consultant at the Ministry of Science, Research and the Arts of Baden-Württemberg
12/1992 – 09/1994 Deputy Chancellor of the former University of Karlsruhe
10/1994 – 12/1998 Chancellor of the University of Constance
01/1999 – 12/2010 Director of the Federal Constitutional Court in Karlsruhe
Since 01/2011 Vice President for Human Resources and Law, KIT

Professional Activities

1990 – 1994 Lecturer (Administrative Law), municipality of Karlsruhe
1992 – 1995 Lecturer (Human Resources), Academy of Economy and Public Administration (Stuttgart, Karlsruhe)
07/1996 – 12/1998 Honorary judge at the Local Labour Court of Lörrach
05/1997 – 05/2007 Examiner (first state examination), Ministry of Justice of Baden-Württemberg
2000 – 2004 Member of the Supervisory Board, University of Mannheim
Since 01/1999 Honorary judge at the Higher Labour Court of Baden-Württemberg
Prof. Dr. Thomas Hirth

Karlsruhe Institute of Technology (KIT)
Vice President Innovation and International Affairs

Education/Career

06/1992 Doctoral Degree at the University of Karlsruhe (TH)
10/1982 – 04/1988 Studies of Chemistry at the University of Karlsruhe (TH)

Positions Held

Since 01/2016 Institute of Technology (KIT)
2012 – 2015 Vice Dean of the Faculty of Energy-, Process- and Bioengineering at the University of Stuttgart
04/2008 – 12/2015 Institute of Interfacial Process Engineering and Plasma Technology
2012 – 2015 Spokesman of the Group for Life Sciences (VLS) and member of board of directors at Fraunhofer-Gesellschaft
12/2007 – 12/2015 Head of the Fraunhofer Institute for Interfacial Engineering and Biotechnology (IGB), Stuttgart
1994 – 2007 Lecturer and Honorary Professor
07/1992 – 11/2007 Fraunhofer Institute for Chemical Technology (ICT), several positions, lastly Head of Department in Products for Environmental Engineering

Awards, Decorations, and Memberships

Since 01/2015 Chairman of ProcessNet
Since 07/2014 Chairman of the Steering Committee state research program Bioeconomy in Baden-Württemberg
Since 04/2012 Member of the DFG-council (“Deutsche Forschungsgemeinschaft”) of process engineering in technical chemistry
2012 – 2015 Member of the board of the association BioEconomy e.V. and scientific Coordinator of the Leading Edge Cluster of BioEconomy
2009 – 2012 Member of the German Bioeconomy Council (of German Federal Government)
Prof. Dr. rer. nat. Alexander Wanner
Karlsruhe Institute of Technology (KIT)
Vice President Higher Education and Academic Affairs

Personal Data
Name: Dr. Alexander Wanner
Date of birth: December 19, 1962

Academic Background and Education
10/1982 – 02/1988 Studies of Physical Metallurgy, University of Stuttgart;
Degree: Diplom-Ingenieur
12/1991 Doctoral Examination; Thesis on the structure and mechanical
properties of carbon-carbon composites, Department of
Chemistry, University of Stuttgart

Professional Career and Activities
02/1988 – 12/1991 Research associate and doctoral candidate at Institute for
Physical Metallurgy, University of Stuttgart
01/1992 – 12/1995 Postdoctoral research associate at Max Planck Institute for
Metals Research, Stuttgart
01/1996 – 09/2003 “Akademischer Rat bzw. Oberrat“ (tenured member of
academic staff) at Institute for Physical Metallurgy,
University of Stuttgart
01/1998 – 12/1998 Visiting Scholar at the Department of Materials Science and
Engineering, Northwestern University, Evanston, IL., USA and
at the Advanced Photon Source, Argonne National Laboratory,
Argonne, IL., USA,
Since 10/2003 Professor for Materials Science and Engineering, Karlsruhe
Institute of Technology (KIT) (formerly: University of Karlsruhe)
2007 – 2010 Spokesman oft the BMBF-funded cooperative project
„Innovative Instrumentation for the Exdended Use of the
Synchrotron Radiation Source ANKA“ (Partner Organizations:
KIT, Ruhr-Universität Bochum, Universität Erlangen-Nürnberg,
Universität Freiburg)
10/2008 – 08/2012 „Studiendekan“ (Director of Studies), Department of
Mechanical Engineering, KIT
Professional Career and Activities

07/2011 – 05/2013  Spokesman of KIT Competence Area „Matter and Materials “
09/2012 – 05/2013  Chief Higher Education Officer (CHEO) of KIT
Since 06/2013  Vice President Higher Education and Academic Affairs of KIT

Awards

1997  Research Scholarship of the Max Kade Foundation, New York, NY, USA
1998  Eshbach Distinguished Visiting Scholar Award, Eshbach Society, Evanston, IL, USA
Prof. Dr. Susumu Satomi

Tohoku University
President

Education/Career

<table>
<thead>
<tr>
<th>Year</th>
<th>Degree</th>
<th>Institution</th>
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<tr>
<td>1984 – 1974</td>
<td>Ph.D., (Dr. of Medicine Science)</td>
<td>Tohoku University</td>
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<tr>
<td>1974 – 1975</td>
<td>M.D.</td>
<td>Tohoku University School of Medicine</td>
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Positions Held

<table>
<thead>
<tr>
<th>Year</th>
<th>Position</th>
<th>Institution</th>
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<tbody>
<tr>
<td>2014 –</td>
<td>President, The Japan Association of National Universities</td>
<td>Japan Association of National Universities</td>
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<tr>
<td>2013- 2014</td>
<td>Vice President, The Japan Association of National Universities</td>
<td>Japan Association of National Universities</td>
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<tr>
<td>2012 – present</td>
<td>President, Tohoku University</td>
<td>Tohoku University</td>
</tr>
<tr>
<td>2008 – 2012</td>
<td>President, Japan Surgical Society</td>
<td>Japan Surgical Society</td>
</tr>
<tr>
<td>2005 – 2012</td>
<td>Vice President, Tohoku University</td>
<td>Tohoku University</td>
</tr>
<tr>
<td>2004 – 2012</td>
<td>Director, Tohoku University Hospital</td>
<td>Tohoku University Hospital</td>
</tr>
<tr>
<td>1999 – 2012</td>
<td>Chairman and Professor, Division of Advanced Surgical Science and Technology, Tohoku University Graduate School of Medicine</td>
<td>Tohoku University Graduate School of Medicine</td>
</tr>
<tr>
<td>1995 – 1999</td>
<td>Chief Professor, Second Department of Surgery, Tohoku University School of Medicine</td>
<td>Tohoku University School of Medicine</td>
</tr>
<tr>
<td>1986 – 1995</td>
<td>Associate Professor, Second Department of Surgery, Tohoku University School of Medicine</td>
<td>Tohoku University School of Medicine</td>
</tr>
<tr>
<td>1984 – 1986</td>
<td>Research Fellow, Harvard University, Institute of Transplantation</td>
<td>Harvard University, Institute of Transplantation</td>
</tr>
<tr>
<td>1982 – 1984</td>
<td>Assistant Professor, Second Department of Surgery, Tohoku University School of Medicine</td>
<td>Tohoku University School of Medicine</td>
</tr>
<tr>
<td>1977 – 1982</td>
<td>Medical Staff, Second Department of Surgery, Tohoku University School of Medicine</td>
<td>Tohoku University School of Medicine</td>
</tr>
<tr>
<td>1975 – 1977</td>
<td>Medical Staff, Department of Surgery, Yuri Kumiai Hospital</td>
<td>Yuri Kumiai Hospital</td>
</tr>
<tr>
<td>1974 – 1975</td>
<td>Medical Staff, Department of Surgery, Tokyo Saiseikai Central Hospital</td>
<td>Tokyo Saiseikai Central Hospital</td>
</tr>
</tbody>
</table>
Awards, Decorations, and Memberships

- Former President of General Incorporated Association National Clinical Database (NCD).
- Director of The Japanese Association of Medical Sciences, The Japan Society for Organ Preservation and Biology.
- Auditor of The Japanese Medical Science Federation, Japan Medical Safety Research Organization
- Member of TTS (The Transplantation Society), IASGO (International Association of Surgeons, Gastroenterologists and Oncologists)

Publications

- Over 200 published articles in the field of medicine
Prof. Toshiya Ueki

Tohoku University
Executive Vice President
(for General Affairs and International Relations)

Education/Career

1983 B.A. in Faculty of Law, University of Tokyo

Teaching and Research Career:

1983 – 1986 Research Associate, Faculty of Law, University of Tokyo
1986 – 1999 Associate Professor of International Law, Faculty of Law, Tohoku University
1988 – 1990 Visiting Fellow, Research Centre for International Law, University of Cambridge, UK
1996 – 1997 Visiting Scholar, Harvard-Yenching Institute, Harvard University, U.S.A
1999 – 2000 Professor of International Law, Faculty of Law, Tohoku University
2001 – present Professor of International Law, Graduate School of Law, Tohoku University

Positions Held

2001 – 2003 Member of the Education and Research Council, Tohoku University
2004 – 2006 Dean, Faculty and Graduate School of Law, Tohoku University
2004 – 2006 Member of the President Election Committee, Tohoku University
2006 – 2008 Executive Vice President for Education and Professional Graduate Schools, Tohoku University
2008 – 2009 Executive Vice President for International Affairs and Legal Affairs, Tohoku University
2009 – 2012 Executive Vice President for Financial Affairs, Tohoku University
2012 – present Executive Vice President for General Affairs, International Relations, Tohoku University
Director, Office of President, Tohoku University
Director, Tohoku University Library
Director, Tohoku University China Office
Director, The Office of Japan-Russia Relations, Tohoku University

Awards, Decorations, and Memberships

- The 27th Adachi Mineichiro Memorial Award (1994)
- Japan Society of International Law
- International Law Association
- Japanese Association of World Law
**Prof. Dr. Ulrike Beisiegel**

*University of Göttingen*  
President

**Education/Career**

<table>
<thead>
<tr>
<th>Year</th>
<th>Position/Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>since 2011</td>
<td>President of the Georg August University of Göttingen</td>
</tr>
<tr>
<td>2001 – 2010</td>
<td>Director of the Institute of Biochemistry and Molecular Biology II: Molecular Cell Biology, Medical Faculty, University of Hamburg</td>
</tr>
<tr>
<td>2001 – 2005</td>
<td>Dean of Research, Medical Faculty, University of Hamburg</td>
</tr>
<tr>
<td>1996</td>
<td>C3-Professor in Hamburg-Eppendorf</td>
</tr>
<tr>
<td>1990</td>
<td>Habilitation in Biochemistry, University Hospital Hamburg-Eppendorf</td>
</tr>
<tr>
<td>1984 – 1996</td>
<td>Assistant Professor, Medical Clinic, University Hospital Hamburg-Eppendorf</td>
</tr>
<tr>
<td>1982 – 1984</td>
<td>Scientific Assistant at the Institute of Human Genetics, Marburg</td>
</tr>
<tr>
<td>1980 – 1982</td>
<td>Postdoctoral Fellow in the laboratory of Drs. Goldstein and Brown, Department of Molecular Genetics, University of Texas, Dallas</td>
</tr>
<tr>
<td>1979 – 1980</td>
<td>Scientific Assistant at the Institute of Human Genetics, Marburg</td>
</tr>
<tr>
<td>1979</td>
<td>Dr. rer. physiol. at the Faculty of Medicine, University of Marburg</td>
</tr>
<tr>
<td>1974 – 1976</td>
<td>Studies of Biochemistry at the Faculty of Medicine, University of Marburg</td>
</tr>
<tr>
<td>1971 – 1974</td>
<td>Studies of Biology, University of Münster and Marburg</td>
</tr>
<tr>
<td>2000 – 2008</td>
<td>Member of the Review Board Biological Chemistry and Physics, DFG</td>
</tr>
<tr>
<td>2000 – 2005</td>
<td>Member of the Ombudsman, University of Hamburg</td>
</tr>
<tr>
<td>2001 – 2005</td>
<td>Dean of Research, Medical Faculty, University of Hamburg</td>
</tr>
<tr>
<td>2002 – 2005</td>
<td>Chairperson of the European Atherosclerosis Society</td>
</tr>
<tr>
<td>2002 – 2010</td>
<td>Member of the Evaluation Committee, Leibniz Association</td>
</tr>
<tr>
<td>2005 – 2010</td>
<td>Chair of the Ombudsman of the DFG – German Research Foundation</td>
</tr>
<tr>
<td>2006 – 2011</td>
<td>Member of the Wissenschaftsrat – Advisory board to the German Government</td>
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<td>2008 – 2010</td>
<td>Chairperson of the Wissenschaftsrat’s Scientific Commission</td>
</tr>
<tr>
<td>since 2009</td>
<td>Member of the Senate of the Leibniz Association</td>
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<tr>
<td>since 2011</td>
<td>Member of the Senate of the Max-Planck-Society</td>
</tr>
<tr>
<td>since 2012</td>
<td>Vice President of the German Rectors’ Conference</td>
</tr>
<tr>
<td>since 2014</td>
<td>Member of the Board of the Rectors’ Conference of Lower Saxony</td>
</tr>
</tbody>
</table>
Awards, Decorations, and Memberships

1983  Heinz Maier-Leibnitz Prize from the German Ministry of Education and Science
1996  Honorary Doctor at the Faculty of Medicine, University of Umeå, Sweden
2008  Rudolf Schönheimer Medal of the German Atherosclerosis Society
2014  Ubbo Emmius Medal of the University of Groningen, Netherlands
2015  Honorary Doctor of Science, University of Edinburgh, Great Britain
2000 – 2008  Member of the Review Board Biological Chemistry and Physics, DFG
2000 – 2005  Member of the Ombudsman, University of Hamburg
2002 – 2005  Chairperson of the European Atherosclerosis Society
2002 – 2010  Member of the Evaluation Committee, Leibniz Association
2005 – 2010  Chair of the Ombudsman of the DFG – German Research Foundation
2006 – 2011  Member of the Wissenschaftsrat – Advisory board to the German Government
2008 – 2010  Chairperson of the Wissenschaftsrat’s Scientific Commission
since 2009  Member of the Senate of the Leibniz Association
since 2011  Member of the Senate of the Max-Planck-Society
since 2012  Vice President of the German Rectors’ Conference
since 2014  Member of the Landeshochschulkonferenz’ Executive Board
Prof. Dr. Hiltraud Casper-Hehne

University of Göttingen
Vice-President

Research Interests and Experience
Intercultural German studies, migration studies, German-Chinese relations, higher education politics

Education

<table>
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<tr>
<th>Year</th>
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<tr>
<td>1982</td>
<td>State examination in German studies and history, Technical University Braunschweig, Germany</td>
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<td>1987</td>
<td>PhD in German linguistics, Technical University Braunschweig, Germany</td>
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<tr>
<td>2003</td>
<td>Habilitation in intercultural German studies, Bayreuth University, Germany</td>
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</tbody>
</table>

Positions Held

since 2011 | Guest Professorship at Nanjing University, PR China |
since 2009 | Vice-President (international affairs), University of Göttingen, Germany |
since 2004 | Professor in Intercultural German Studies, University of Göttingen, Germany |
|          | Director, German-Chinese Institute for Intercultural German Studies and Culture Comparison, University of Göttingen, Germany |
|          | Director, Department for Intercultural German Studies, University of Göttingen, Germany |
2001 – 2004 | Co-Director, Language centre, Technical University Braunschweig, Germany |
1998 | DAAD Lecturer, Intercultural German Studies, University of Rhode Island, USA |
1997 – 2004 | Dean of Studies, Technical University Braunschweig, Germany |
1996 – 2004 | Director, Institut für Kleine Sprachen and Lecturer at the Language Centre, Technical University Braunschweig, Germany |
1995 – 2004 | Director, Institute for Intercultural German Studies, Technical University Braunschweig, Germany |
1986 – 1988 | DAAD Lecturer, Institute for Mechanical Engineering Shanghai, PR China |
Awards and Memberships

since 2012  Chairwomen of the HERA (Humanities in European Research Area) Board “Cultural Encounters”
2010  Honorary Professorship, Beijing Foreign Studies University

Publications

• 6 monographs and 14 edited volumes
• editor of 3 journals in German
• 40 articles in peer reviews journals and edited volumes, 13 academic reports on cultural exchange, migration, German as a foreign language, linguistic aspects of German-Chinese relations
Prof. Dr. Shojiro Nishio

Osaka University
President

Education

1980  Doctor of Philosophy in Engineering, Kyoto University
1977  Master of Engineering, Kyoto University
1975  Bachelor of Engineering, Kyoto University

Positions Held

2015 – Present  President, Osaka University
2013 – 2015  Distinguished Professor, Osaka University
2013 – 2015  Director, Cybermedia Center, Osaka University
2007 – 2011  Executive Vice President, Osaka University
2004 – 2007  Advisor to the President, Osaka University
2003 – 2007  Dean, Graduate School of Information Science and Technology, Osaka University
2002 – 2015  Professor, Graduate School of Information Science and Technology, Osaka University
2001 – 2008  Program Director (Information and Networking Area), Ministry of Education, Culture, Sports, Science and Technology (MEXT)
2000 – 2004  Founding Director, Cybermedia Center, Osaka University
1998 – 2002  Professor, Graduate School of Engineering, Osaka University
1992 – 1998  Professor, School of Engineering, Osaka University
1992 – 1992  Associate Professor, School of Engineering Science, Osaka University
1989 – 1992  Associate Professor, Education Center for Information Processing, Osaka University
1988 – 1989  Associate Professor, School of Engineering Science, Osaka University
1988 – 1988  Visiting Fellow, British Columbia Advanced Systems Institute, Canada
1980 – 1981  Visiting Research Associate Professor, University of Waterloo, Canada
1980 – 1988  Assistant Professor, School of Engineering, Kyoto University
Memberships and Awards

Memberships
- Institute of Electrical and Electronics Engineers (IEEE) (Computer Society, Technical Committee on Data Engineering, Asian Coordinator: 1992 – 1997)
- Association for Computing Machinery (ACM)
- Institute of Electronics, Information and Communication Engineers (IEICE)
- Database Society of Japan (DBSJ) (a member of the board of trustees and auditors: 2002-2011, President: 2012 – 2013)
- Japan Federation of Engineering Society (JFES)
- Fellow of IEEE, IPSJ, IEICE, and JFES.

Honors and Awards
- Distinguished Achievement and Contributions Award in the information science and technology field from Ministry of Education, Culture, Sports, Science and Technology (MEXT) (2014)
- Distinguished Achievement and Contributions Award from IEICE (2013)
- Distinguished Achievement Award from Tateisi (OMRON) Science and Technology Foundation (2012)
- Medal with Purple Ribbon from the Emperor of Japan (2011)
- Distinguished Achievement and Contributions Award from IPSJ (2010)
- Distinguished Achievement and Contributions Award from DBSJ (2010)
- Distinguished Achievement Award from Funai Foundation for Information Technology (FFIT) (2004)

Area of Expertise
Information science and technology, specializing in data engineering and multimedia systems
Selected Publications

Prof. Dr. Shinsuke Yamanaka
Osaka University
Executive Vice President

Education

<table>
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<tr>
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<tr>
<td>1989</td>
<td>Ph.D., Engineering</td>
<td>Osaka University</td>
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<tr>
<td>1981</td>
<td>M.A., Engineering</td>
<td>Osaka University</td>
</tr>
<tr>
<td>1979</td>
<td>B.A., Engineering</td>
<td>Osaka University</td>
</tr>
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Positions Held

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<th>Dates</th>
<th>Position</th>
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<tr>
<td>Aug. 2016 – Present</td>
<td>Executive Vice President, Osaka University</td>
</tr>
<tr>
<td>Apr. 2016 – Jul. 2016</td>
<td>Director, Center for Open Innovation Research and Education, Graduate School of Engineering, Osaka University</td>
</tr>
<tr>
<td>2011 – 2016</td>
<td>Associate Dean, Graduate School of Engineering, Osaka University</td>
</tr>
<tr>
<td>2010– 2016</td>
<td>Director, Frontier Research Center, Graduate School of Engineering, Osaka University</td>
</tr>
<tr>
<td>1998 – 2016</td>
<td>Professor, Graduate School of Engineering, Osaka University</td>
</tr>
<tr>
<td>1994 – 1998</td>
<td>Associate Professor, School of Engineering, Osaka University</td>
</tr>
<tr>
<td>1983 – 1994</td>
<td>Assistant Professor, School of Engineering, Osaka University</td>
</tr>
</tbody>
</table>

Awards and Memberships

Memberships
- Atomic Energy Society of Japan
- Japan Institute of Metals and Materials
- Thermoelectrics Society of Japan

Honors and Awards
- Fellow from Atomic Energy Society of Japan (2016)
- Best Paper Award from Atomic Energy Society of Japan (2008)
- Best Paper Award from Thermoelectrics Society of Japan (2004)
- Encouraging Prize from Atomic Energy Society of Japan (1990)

Area of Expertise
Energy conversion materials such as nuclear fuel and materials, thermoelectric materials and photoelectrochemical materials.
Selected Publications


University Presentations
FOSTERING STUDENT MOBILITY
TO SHAPE TOMORROW’S RESEARCHERS
AND INNOVATORS

Heidelberg University

The Comprehensive University is the place where key disciplines creatively interact to address the fundamental challenges societies are faced with.
Facts and Figures

Students (term 15/16) 30,848
PhD Graduations (2015) 1,210
Doctoral students (2015) 6,500-7,000
   Female 50.9%
Habilitations (2015) 96
Total funding (2015) 706.4 Mio €
Third-party funding (expenses) (2015) 240.2 Mio €

International Affairs
Facts and Figures

Foreign Students (term 15/16):
5,590 (18.1%)
   Humanities 2,790 (19.2%)
   Natural Sciences 1,187 (15.6%)
   Social Sciences 377 (15.3%)
   Medicine 928 (16.5%)
   N.N 308

PhD Graduations (2015)
310 (25.6 %)
   Humanities 42 (22.1%)
   Natural Sciences 179 (35.8%)
   Social Sciences 8 (17.3)
   Medicine 81 (17.0%)

Habilitations (2015) 14 (13.5%)
International Affairs
Statement

Heidelberg University supports as many students as possible studying abroad to promote their intercultural competencies, to educate them becoming cosmopolitan researchers and to prepare them for an internationalizing job market.

International Affairs
Representations Abroad

Heidelberg Center para America Latina (HCLA) Santiago de Chile (since 2002)

Liaison Office North America, New York (since 2008)

Heidelberg Centre South Asia, New Delhi (since 2009)

Branch offices of the South Asia Institute in New Delhi, Colombo, Kathmandu and Islamabad

Heidelberg University Office, Kyoto (since 2015)
International Affairs
Cooperation (selected)

STUDENT MOBILITY (2015)
Heidelberg offers programs to/for
- Study abroad (450 partner univ.)
- Short-term fellowships

MOBILITY WITHIN RESEARCH PROJECTS / ORIENTATION (2015)
- Summer / Winter Schools
  - Institutional (bi- and trilateral)
  - Individual
- ExIni II – int. mobility in research
- ExIni II – int. guest professors
- Foreign visiting scholars (410)
- Indiv. & project specific measures

International Affairs
Cooperation (selected)

STUDY ABROAD (2015)
Outgoing
- 657 ERASMUS students
- ~200 students in bilateral programs
- 50 BW scholarships
- 152 DAAD scholarships
- 124 PROMOS short-term scholarships

Incoming
- 544 ERASMUS students
- ~200 students in bilateral programs
- 53 BW scholarships
- 413 DAAD scholarships
International Affairs
Cooperation (selected)

SANTANDER INT. SUMMER / WINTER SCHOOLS (2015)

**Winter School, Kyoto**
(March ‘15)
*What is Caesar’s, what is God’s?*

**Summer School, Santiago de Chile**
(July ‘15)
*Molecular Catalysts - Tools for Chemical Synthesis*

**Summer School, IWH Heidelberg**
(Sept./Oct. ‘15)
*Arising Awareness – Sustainable Development of human society within the frame of planet Earth*

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International Affairs

**Vision**

Our goal is to establish a new quality in study alliance.

Students from today should be able to study at dedicated leading partner universities world-wide and travel criss-cross around the globe.

We want to make sure, that they do not miss anything in their curriculum by synchronizing study programs with partners world-wide.
UNIVERSITÄT HEIDELBERG
ZUKUNFT SEIT 1386
The 5th HeKKSaGOn Japanese-German University Presidents’ Conference

Fostering Student Mobility
to Shape Tomorrow’s Researchers and Innovators

Kyoto Universität

Contents

I. KU Initiatives, Policy, and Student Mobility at Present

II. Exchange with German Universities

III. Challenges and Efforts to Foster Tomorrow’s Researchers and Innovators
Kyoto University as a **WINDOW** to the World and Society

**Wild and Wise**

**Diverse and Dynamic**

**International and Innovative**

**Original and Optimistic**

**Natural and Noble**

**Women, leaders in the Workplace**

---

**Overview of Kyoto University**

Established in 1897
- Research oriented
- Tradition of pioneering fieldwork
- Rooted in the unique philosophic traditions of Kyoto

9 Nobel Laureates

*Tokyo (東京) (Capital 19C-present)*

*Kyoto (京都) (Capital 8 ~ 19C)*
Overview of Kyoto University

43 Research and Educational Facilities in Japan

- 10 Faculties
- 18 Graduate Schools
- 38 Research Institutes and Centers

23,000 Students
(2,100 International)

7,200 Faculty and Staff Members
(400 International Faculty and Staff)

International Students by Program

Excluding Research Students and Others
(As of May 1, 2016)
Number of International Researchers and Students in KU

Kyoto University’s Global Engagement

50 Overseas Offices and Facilities

Overseas Partner Institutions: 153 universities in 45 countries

(As of Jan 1, 2016)
International Exchange of Students

**Going Abroad**
- Total: 2,633 Students
  - Asia: 24.5%
  - Middle East: 19.4%
  - Africa: 4.2%
  - Oceania: 3.8%
  - North America: 1.2%
  - Latin America: 1.6%
  - Europe: 45.3%

**Coming from Abroad**
- Total: 1,779 Students
  - Asia: 1.9%
  - Middle East: 2.5%
  - Africa: 8.5%
  - Oceania: 0.7%
  - North America: 3.0%
  - Latin America: 0.3%
  - Europe: 80.7%

International Exchange of Researchers

**Going Abroad**
- Total: 8,416 Researchers
  - Asia: 38.5%
  - North America: 30.9%
  - Latin America: 22.4%
  - Europe: 1.3%

**Coming from Abroad**
- Total: 3,050 Researchers
  - Asia: 26.7%
  - North America: 20.6%
  - Latin America: 1.2%
  - Europe: 46.8%
Honing Practical and Collaborative Skills through Fieldwork

Overseas Surveys/Fieldwork by KU Graduate Students

- **Overseas Surveys/Fieldwork by KU Graduate Students**
  - **Total**: 467

- **57 students to Europe (5 to Germany)**
  - 1. Engineering: 14
  - 3. Agriculture: 7
  - 4. Others: 10

- **289 students to Asia**
  - 1. Asian and African Area Studies: 108
  - 2. Agriculture: 58
  - 3. Engineering: 57
  - 4. Others: 66

- **66 students to Africa**
  - 1. Asian and African Area Studies: 38
  - 2. Science: 8
  - 3. Agriculture: 13
  - 4. Others: 7

Other Regions:
- 30 students to North America
- 10 students to South America
- 9 students to the Middle East
- 6 students to Oceania

(Numbers of students in 2015)
Contents

Ⅰ. KU Initiatives, Policy, and Student Mobility at Present

Ⅱ. Exchange with German Universities

Ⅲ. Challenges and Efforts to Foster Tomorrow’s Researchers and Innovators

Student Exchange between KU and German Univs.

Numbers of students exchanged between KU and German Universities (2006–2015)

- Trend I
- Trend II

July 2010: 1st HeKKSaGOn Meeting
March 2011: Great East Japan Earthquake
Students Exchanged between KU and German Univs.

Numbers of Exchange Students (2015)

<table>
<thead>
<tr>
<th>Field</th>
<th>Undergraduate</th>
<th>Master's, Doctoral</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humanities &amp; Social Sciences</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>2</td>
<td>0</td>
</tr>
</tbody>
</table>

Type of Students

<table>
<thead>
<tr>
<th>to Germany</th>
<th>to Ger.</th>
<th>Name of Univ.</th>
<th>to KU</th>
</tr>
</thead>
<tbody>
<tr>
<td>HeKKSaGOn</td>
<td>9</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>Others</td>
<td>5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>to KU</th>
<th>to Ger.</th>
<th>Name of Univ.</th>
<th>to KU</th>
</tr>
</thead>
<tbody>
<tr>
<td>HeKKSaGOn</td>
<td>10</td>
<td></td>
<td>11</td>
</tr>
<tr>
<td>Others</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Type of Students

Comments from Students Exchanged between KU and German Univs.

1. I wanted to master German.
2. LMU is excellent in law and politics.

1. Closely related to my major,
2. FUB has respected professors.

1. I am interested in Pop culture, manga, and anime,
2. I wanted to learn about the research style of a reputable Japanese university.

1. I am interested in Japan and Kyoto,
2. It’s located in Kyoto and the program suits me.

1. I chose the university first, and...
2. KU is one of Southeast Asia’s leading universities in the field of renewable energy.

Q1. Why Germany?
Q2. Why that university?

Q1. Why Japan/Kyoto?
Q2. Why Kyoto University?
Contents

I. KU Initiatives, Policy, and Student Mobility at Present

II. Exchange with German Universities

III. Challenges and Efforts to Foster Tomorrow’s Researchers and Innovators

Japanese National Survey on the Obstacles to Student Mobility

<table>
<thead>
<tr>
<th>Japanese Students Abroad</th>
<th>International Students in Japan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Financial burden on students and parents</td>
<td>74%</td>
</tr>
<tr>
<td>Students’ insufficient English proficiency</td>
<td>57%</td>
</tr>
<tr>
<td>Inability to acquire sufficient funds to support students</td>
<td>54%</td>
</tr>
<tr>
<td>Low interest from students</td>
<td>40%</td>
</tr>
<tr>
<td>A long term spent studying abroad affects job hunting</td>
<td>34%</td>
</tr>
</tbody>
</table>

KU’s Initiatives to Send Japanese Students Abroad

Easing the financial burden on students and parents

**The John Mung Program**
- Program: Arranged by KU
- Purpose: Research experience, Language study
- Top-level universities, etc.

- 138 students (in 2015)

Kyoto University provides funding for students

**0-Mo-Ro Challenge Program (New Program)**
- Program: Customized by each student
- Purpose: Experience-based learning
- To anywhere in the world

- 31 students (in 2016)

KU’s Initiatives for International Students in Japan

Tackling the problem of the small number of courses taught in English

- Kyoto University offers **14 English-taught degree programs**

<table>
<thead>
<tr>
<th>Field</th>
<th>Number of Programs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering</td>
<td>4 programs (Bachelor, Master, Doctor)</td>
</tr>
<tr>
<td>Informatics</td>
<td>3 programs (Master, Doctor)</td>
</tr>
<tr>
<td>Economics, Agriculture, Energy Science</td>
<td>7 Graduate Schools</td>
</tr>
<tr>
<td>Biostudies/Medicine, Global Environmental Studies, Science (Primate Research Institute), Management</td>
<td>1 program (Master, Doctor)</td>
</tr>
</tbody>
</table>

- Kyoto University provides classes in English on over **200 liberal arts and sciences subjects**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Number of Subjects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Sciences</td>
<td>83 subjects</td>
</tr>
<tr>
<td>Humanities and Social Sciences</td>
<td>67 subjects</td>
</tr>
<tr>
<td>Informatics</td>
<td>6 subjects</td>
</tr>
<tr>
<td>Others</td>
<td>69 subjects</td>
</tr>
</tbody>
</table>
Top-Level Education and Research

Institute for Advanced Study

- Southeast Asian Studies
- Advanced Medicine
- Mathematics & Physics
- Chemistry
- Life Science

Vital Cutting-Edge Research Fields
International Hub for Advanced Research

Joint/Double Degree Program

Japan Gateway: Kyoto University Top Global Program

Super Global Courses
(International Joint Education Programs)

- Mathematics
- Human Biosciences
- Chemistry and Chemical Engineering
- Social Science and Humanities
- Environmental Studies
- Public Health

Developing joint/double degree programs

Initiating jointly operated courses, joint guidance and assessment of dissertations, etc.
Cooperation with HeKKSaGOn Member Universities

Plan to launch
Joint Master’s Course on Transcultural Studies

Dec. 2015: Conclusion of agreement to establish joint-degree program

ご清聴ありがとうございました
Vielen Dank für Ihre Aufmerksamkeit.

Juichi Yamagiwa
President
Kyoto University
KIT – The Research University in the Helmholtz Association
Prof. Dr.-Ing. Holger Hanselka | President

Figures and Facts

- **5** Campuses – **200** ha area
- **1,000** International scientists
- **3,000** Doctoral students
- **9,300** Employees
- **470** Trainees
- **300** Buildings with a usable area of **450,000 m²**
- **364** Professors and executive scientists
- **25,000** Students
- **59** Patent applications
- **18** Spinoffs and startups
- **1,000** Buildings with a usable area of **450,000 m²**

KIT budget
EUR 860 million

**State funds: 42%**
**Third party funds: 28%**
**Federal funds: 30%**

Status: 2015
International Dimension

~ 20% International PhD and Researchers

> 1000 Registered cooperation partners in 65 countries

24 Double Degree-Programs

17 International Alumni Clubs

> 80 Mio.€ European Funding

29 International PhD-Programs

> 1,902 Worldwide IP rights

5,120 International students

Status of August 2016

Branch Offices

HGF Offices
KIT Branches

### Science Organization of KIT

**Presidential Committee**

<table>
<thead>
<tr>
<th>President</th>
<th>Vice President Research</th>
<th>Vice President Higher Education and Academic Affairs</th>
<th>Vice President Innovation and International Affairs</th>
<th>Vice President Human Resources and Law</th>
<th>Vice President Finance and Business Affairs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Division I</td>
<td>Biology, Chemistry, and Process Engineering</td>
<td>Division II</td>
<td>Informatics, Economics, and Society</td>
<td>Division III</td>
<td>Mechanical and Electrical Engineering</td>
</tr>
<tr>
<td>20 Institutes/Institutions</td>
<td>26 Institutes/Institutions</td>
<td>35 Institutes/Institutions</td>
<td>23 Institutes/Institutions</td>
<td>21 Institutes/Institutions</td>
<td></td>
</tr>
<tr>
<td>2 KIT Departments</td>
<td>3 KIT Departments</td>
<td>2 KIT Departments</td>
<td>2 KIT Departments</td>
<td>2 KIT Departments</td>
<td></td>
</tr>
<tr>
<td>1 Helmholtz Programme*</td>
<td>3 Helmholtz Programmes*</td>
<td>3 Helmholtz Programmes*</td>
<td>3 Helmholtz Programmes*</td>
<td>4 Helmholtz Programmes*</td>
<td></td>
</tr>
<tr>
<td>7 KIT Centers</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Assigned to Division Heads

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### Showcases of Research: KIT Centers Interconnect Disciplines

- **Elementary and Astroparticle Physics**
- **Energy**
- **Mobility Systems**
- **Materials - Structures - Functions**
- **Climate and Environment**
- **Humans and Technology**
- **Information - Systems - Technologies**

---

**Science Organization of KIT**

**Showcases of Research: KIT Centers Interconnect Disciplines**
Large Research Infrastructures at KIT

- Acoustic Four-wheel Roller Dynamometer
- ANKA Synchrotron Radiation Facility
- Biomass to Liquid (bioliq®)
- EnergyLab2.0
- European Zebrafish Resource Center
- High-performance Computer for Research
- Grid Computing Centre Karlsruhe (GridKa)
- Karlsruhe Nano Micro Facility (KNMF)
- Karlsruhe Tritium Neutrino Experiment
- Theodor Rehbock River Engineering Laboratory
- Vehicle Efficiency Laboratory
- AIDA Cloud Chamber

The Umbrella Strategy KIT 2025 Covers Goals and Measures in Eight Areas of Action

- Mission
- Research
- Teaching
- Innovation
- Young Researchers
- Central Administration and Technical Infrastructure
- Governance
- International Affairs (currently in preparation)
Research: Advancing towards a Leading Position in Europe

Quality is the first priority in fundamental and applied research

Research profile combines the freedom of research with program- and priority-based research – gaining knowledge and contributing to the viability of our society

Enhancing the profile in the society's areas of demand energy, mobility, and information

Strategic cooperation to strengthen the competencies of KIT

Competitive research infrastructures as drivers of technological development

Teaching: Research-based Teaching and Learning

KIT is one of the most attractive places of study in Europe

All researchers and scientists participate in teaching

Creating optimal conditions of study and teaching – based on large-scale research infrastructures

Assuring quality in system and practice – system-accredited quality assurance concept and on-campus programs

KIT students are among the best – assisting students in selecting their programs and orienting themselves

Understanding diversity as an enrichment – increasing the percentage of female students, raising the number of courses offered in English, exchange programs in Germany and abroad
Innovation as a Statutory Mission

Innovation is propelled by the results from research and teaching

Innovation leadership in the German science sector

From the idea to the solution – application of findings by third parties as an important element for the viability of our society

Strengthening an innovation-friendly climate – optimizing framework conditions, providing suitable incentive models, promoting entrepreneurial spirit

Strategic development of cooperation and business models to strengthen cooperation with industry

Actively Shaping the Future: Young Researchers

Creating commitment and transparency – developing a portfolio of career paths

International recruiting of young scientists

Supporting the doctorate as a first scientific career step

Supporting postdocs for an optimal entry into scientific careers

Enhancing and increased funding of networks for young researchers, e.g. Young Investigator Network (YIN) of KIT
The Research University in the Helmholtz Association

- Participation of all scientists in teaching and research
- Excellent research infrastructure
- Cultural diversity
- TRANSPARENT SERVICES FOR RESEARCH, TEACHING, AND INNOVATION
- Research-based teaching and learning
- INNOVATION AS A STATUTORY MISSION
- TOWARDS A LEADING POSITION IN EUROPE

KIT – Excellent Research, Outstanding Higher Education, and Driver of Innovation

KT thinks and acts as ONE institution

Energy
Mobility
Information
Tohoku University

Fostering Student Mobility

Sep 29, 2016
HeKKSaGO 5th Japanese-German University Presidents’ Conference

President of Tohoku University
Susumu Satomi

Selected by Government’s Funding Projects for University Internationalization

Global 30 (2009-2013)
The project aims to promote internationalization of academic environment at universities in order to accept excellent international students. Tohoku University was selected as one of 13 universities.

Go Global Japan (2012-2016)
The project provides support for developing education system to promote the global capabilities of students, in order to foster human resources who can work internationally and positively take on global challenges.

Top Global University Project (2014-2023)
This big Project is to support full-on globalization at universities through the reform of internal governance and the collaboration with leading overseas institutes.
Promotion of Inbound Mobility

Trend in Incoming International Students
(As of May 1 each year)

Future Global Leadership Program (FGL)
Courses taught in English

This program was established to provide excellent education and research opportunities at Tohoku University to students from overseas.
### Future Global Leadership Program (FGL)
Courses taught in English

<table>
<thead>
<tr>
<th>3 Undergraduate Courses</th>
<th>15 Graduate Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMC  Advanced Molecular Chemistry (AMC)</td>
<td>IMSE  Materials Science &amp; Engineering</td>
</tr>
<tr>
<td>IMAC-U International Mechanical &amp; Aerospace Engineering (IMAC-U)</td>
<td>IMAC-G Mechanical &amp; Aerospace Engineering</td>
</tr>
<tr>
<td>AMB  Applied Marine Biology (AMB)</td>
<td>EISEBE Engineering, Information Sciences, Environmental Studies, Biomedical Engineering</td>
</tr>
<tr>
<td></td>
<td>ITSC  Information Technology &amp; Science Course</td>
</tr>
<tr>
<td></td>
<td>DSP   Data Science Program</td>
</tr>
<tr>
<td></td>
<td>IGPAS Advanced Science</td>
</tr>
<tr>
<td></td>
<td>IELP  Environmental Leadership Program</td>
</tr>
<tr>
<td></td>
<td>ICLS  Life Science</td>
</tr>
<tr>
<td></td>
<td>IOHS  Oral Health Science</td>
</tr>
<tr>
<td></td>
<td>IPHS  Human Security</td>
</tr>
<tr>
<td></td>
<td>BMC   Basic Medicine Course</td>
</tr>
<tr>
<td></td>
<td>NMC   Network Medicine Course</td>
</tr>
<tr>
<td></td>
<td>IGPL  Language Sciences</td>
</tr>
<tr>
<td></td>
<td>IGSAP Accounting Policy</td>
</tr>
<tr>
<td></td>
<td>GPEM  Global Program in Economics &amp; Management</td>
</tr>
</tbody>
</table>

### Exchange Programs (For Partner Universities)

- Tohoku University has an extensive range of student exchange programs at universities throughout the world.
- Most programs are open to undergraduate and postgraduate students.
- Credits earned at Tohoku University can be transferred to the student’s home university, depending on their school’s policies.
Support for International Students

University House
Students from Japan and overseas live together in the same environment.

President’s Fellowship
Provides tuition, entrance and test fees for international students of excellent character and academic standing.

International Support Office
Offers various supports for international students and researchers.

Promotion of Outbound Mobility

Our plan to change the “inward looking” mindset of young people, and cultivate a generation that can actively contribute on the global stage.

- Internationalization of the Curriculum
- Faculty Development for Global Education
- Improving Foreign Language Competencies
- Cultivation of Global Human Resources
- Support to Promote Study Abroad Programs

Go Global Japan
(2012-2014)

TOP GLOBAL UNIVERSITY JAPAN
(2014 -)
Cultivating Global Human Resources with 6 Key Competencies
- High-level Specialist Abilities
- Ability to See From a Bird’s-eye View to Cross Discipline Boundaries
- Communication Abilities
- Problem Finding/Solving Abilities
- Understanding of Foreign Cultures and Societies
- Leadership Abilities

Voluntary Registration System
- respecting the independence of students
- Approx. 2000 participants
- 25% of 1st & 2nd year students are registered.
Tohoku university English Academy (TEA)

English language courses established in 2015 to enable students the opportunity to acquire the necessary level of English needed to study overseas and compose English-language research articles.

- **TEA's ENGLISH**
  Regular Program
  Intensive Programs (Winter & Summer)

- **Counseling**
  Every Mon, Wed & Fri, 12-17

- **English Proficiency Tests**
  TOEFL ITP®, TOEFL iBT®, IELTS, TOEIC®

---

**Short-term overseas training program**

<table>
<thead>
<tr>
<th>Institutions</th>
<th>Number of Participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of California, San Diego (USA)</td>
<td>81</td>
</tr>
<tr>
<td>University of California, Riverside (USA)</td>
<td>411</td>
</tr>
<tr>
<td>University of Hawai'i at Mānoa (USA)</td>
<td>50</td>
</tr>
<tr>
<td>Simon Fraser University (Canada)</td>
<td>43</td>
</tr>
<tr>
<td>The University of Sydney (Australia)</td>
<td>144</td>
</tr>
<tr>
<td>The University of New South Wales (Australia)</td>
<td>94</td>
</tr>
<tr>
<td>Monash University (Australia)</td>
<td>29</td>
</tr>
<tr>
<td>University of Auckland (New Zealand)</td>
<td>15</td>
</tr>
<tr>
<td>The University of Sheffield (UK)</td>
<td>43</td>
</tr>
<tr>
<td>The University of York (UK)</td>
<td>69</td>
</tr>
<tr>
<td>Universität Paderborn (Germany)</td>
<td>44</td>
</tr>
<tr>
<td>École Centrale de Lyon (France)</td>
<td>18</td>
</tr>
<tr>
<td>Universidad de Alcalá (Spain)</td>
<td>15</td>
</tr>
<tr>
<td>Chulalongkorn University (Thailand)</td>
<td>46</td>
</tr>
<tr>
<td>Foreign Trade University (Vietnam)</td>
<td>55</td>
</tr>
<tr>
<td>Seoul National University (South Korea)</td>
<td>15</td>
</tr>
<tr>
<td>Gadjah Mada University (Indonesia)</td>
<td>17</td>
</tr>
<tr>
<td>National Chengchi University (Taiwan)</td>
<td>27</td>
</tr>
<tr>
<td>Universitas Indonesia (Indonesia)</td>
<td>20</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>1,227</strong></td>
</tr>
</tbody>
</table>

---

**Statistics on SAP participants (2007-2015)**

<table>
<thead>
<tr>
<th>Year</th>
<th>Applicants</th>
<th>Participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007</td>
<td>145</td>
<td>2007</td>
</tr>
<tr>
<td>2008</td>
<td></td>
<td>2008</td>
</tr>
<tr>
<td>2009</td>
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<td>2013</td>
</tr>
<tr>
<td>2014</td>
<td></td>
<td>2014</td>
</tr>
<tr>
<td>2015</td>
<td>300</td>
<td>2015</td>
</tr>
</tbody>
</table>

**Study Abroad Programs (SAP)**

High School Bridging Program

Pre-enrollment overseas training
High School Students who’s Admission to is decided by their AO Exam/Science Olympiads Results

2 weeks at UC Riverside
Classes, Student Exchange and Homestays in California

Seven International Joint Graduate Programs

Four Fields Aiming to Enter the World’s Top Ten Ranking
Spintronics, Materials Science, Cosmological Physics, Earth Science

Challenging Three New Academic Disciplines
Data Science, Life Sciences, Disaster Reduction / Safety Science
Tohoku University’s Global Initiative

Investing in knowledge as a world-class university
-Pursuing international excellence in education and research-

Increasing our general rankings as a world-class university

Creation of disciplines and techniques to stimulate innovation.

Creation of a sustainable world society and solving problems on a global scale.

Strengthen research abilities.

International Joint Graduate Programs.

Create an educational basis to cultivate global leaders.

Reform in governance.

Further improve our research environment in globalized context.

Thank you for your attention
University of Göttingen

13 years
Foundation under Public Law

• full autonomy to appoint professors
• independent staff management
• independent financial management
• ownership of buildings and real estate
• 235 buildings as foundation asset

Jacob Grimm (1785 to 1863)
Wilhelm Grimm (1786 to 1859)

belonged to the “Göttingen Seven” - Professors who protested against the repeal of the constitution of the state of Hanover by King Ernst August, and were dismissed from their University posts in 1837

Critical Spirit

Göttingen Declaration
1957

18 prominent nuclear scientists

Carl Friedrich von Weizsäcker
Facts

- 30,000 students (incl. Medicine) (12% international)
- 500 doctorates per year
- 7,600 staff*
- 375 tenured professors (23% female)
- 220 Mio EURO state support
- 110 Mio EURO third-party funding
- * w/o medicine

13 Faculties

- Agricultural Sciences
- Forest Sciences
- Biology and Psychology
- Chemistry
- Geosciences and Geography
- Mathematics and Computer Science
- Physics
- Law
- Social Sciences
- Economic Sciences
- Humanities
- Theology
- Medical Center

Göttingen Campus

Close and vibrant partnership between the University the Medical Center and Non-university Partners

.... model for future science landscape in Germany:
Campus Partners:
- MPI for Biophysical Chemistry
- MPI for Dynamics and Self-Organization
- MPI for Experimental Medicine
- MPI for Institute for Solar System Research
- MPI for the Study of Religious and Ethnic Diversity
- German Primate Center (Leibniz Institute)
- Academy of Sciences and Humanities
- German Aerospace Center (DLR)

Associated Partners
- University of Applied Science (HAWK)
- Georg-Eckert-Institut (Leibniz)
- Private University of Applied Science

Companies:
- Phwey
- Otto Bock
- KWS
- Sartorius

Göttingen Spirit

Perfect environment for research and teaching and high standard of living at the Göttingen Campus
**Internationality – Göttingen Campus**

**STATUS QUO: research**

| Strategic cooperation on main research focuses | Neuroscience (ENI)  
Sustainable use of natural resources (PR China)  
digital transformation (UC, USA)  
research into religion (Hebrew, U4) |
|------------------------------------------------|--------------------------------------------------|
| Young scientists/PhDs | graduate schools, Cotutelles  
Rank 4 Share of doctoral students among the 20 biggest universities in Germany |
| International Professors | from 7.5 % in 2007 to 12 % in 2015  
(national level: 7.6 % in 2013) |
| International research staff | 18 % in 2015; (national: 10.3 % in 2013) |

**Responsibility for the Future**

- Career Development
- Postdoc Culture
- Structured Graduate Schools
- Research-based Teaching
- Motivate Pupils
Internationality – Göttingen University

STATUS QUO: teaching

Incoming Students from 9.5% in 2007 to 12.2% in 2016
(national level: 10.2% in 2014)
from 2,500 in 2007 to approx. 3,800 in 2016
Rank 9 among 20 biggest universities in GER

Outgoing Students 30%

International Study Programs 83 (out of 175)
1 BA, 30 MA, 52 PhD
nationwide among top 5 universities in GER
currently: building short-term programs

Projects
Internationalization at Home:
Internationalization, Digitalization,
Diversification of Curricula

Facts & Figures: International Students by Faculty
Facts & Figures: International Students from Japan

INCOMING AND OUTGOING STUDENTS FROM JAPAN

- Outgoing HeKKSaGOn-Partners
- Outgoing Japan (other universities)
- Incoming HeKKSaGOn-Partners
- Incoming Japan (other universities)

Flagship project: Internationalization of Curricula
**Internationalization of Curricula**

Strategic inclusion of international and intercultural dimensions as well as the global perspective in all study programmes.

Inclusion in:

- Contents of the curricula
- Learning outcomes
- Teaching and learning processes
- Support services

(according to Betty Leask 2015)

---

**Background and Objectives**

Only 30% of students absolve a study-related stay abroad – but all students should be prepared for working in an increasingly globally connected world.

International competences

- Knowledge of foreign languages
- Expertise on different regions, cultures, economic / legal systems

Intercultural competences

- Be open-minded, respectful and compassionate towards different cultures
- Recognize and counteract racism and discrimination
Background and Objectives

Preparation for a globally connected job market
- Communication with international clients, partners, suppliers
- Integration of global topics into local practices
- New forms of border-crossing collaborations

Enhanced integration of international students
- Enriched teaching by involving international students with their wealth of experience and knowledge

Internationalization – Digitalization – Diversification

Internationalization of Curricula in combination with:

Digitalization
- Builds a strong international network of teachers and students
- Opens access for study programmes to new perspectives, knowledge, research and teaching methods from different knowledge cultures
- Enhances virtual cooperation and motivates mobility

Diversification
- High potential for constructive diversity management
Invitation to attend Staff Training Week in May 2017

- International Staff Training Week on “Internationalization of the Curricula” in May 2017 at University of Göttingen
- Presentation of project ideas and its implementation
- Discussion of joint initiatives (e.g. digital platform for virtual mobility)

Welcome Guide for international students

Courses taught in English for exchange students
Mobility and Open Education:
Osaka University’s Vision for 2021

Shojiro Nishio, Ph.D.
President, Osaka University

1. Mobility and Open Education:
OU Vision 2021

   1. Science on the move: Japan and Germany in the global map of mobility

   2. Why “openness”? Changing approach to innovation

   3. “OU Vision 2021” What Osaka University does to enhance mobility and openness
2 “Science on the move”

Scientists move globally to improve career prospects and to seek outstanding research teams.

**THE GLOBAL DIASPORA**

Of the 65,000 researchers, India sends the largest proportion of its scientists overseas. European countries also have high rates of emigration.

3 Japan and Germany in the Global Map of Science Mobility

- Japanese & US researchers: “least likely to be working abroad”
- Germany: About 1/4 of scientists are foreign, about 1/4 German scientists working abroad.

Survey of 17,000 researchers in 4 fields in 16 countries (Franzoni et al. 2012) (biology, chemistry, earth and environmental sciences and materials)
4. Shares of Foreign Postdocs are as High in Japan as in Germany (44%)

- Shares of foreign "Professors" are 2% in Japan, 17% in Germany
- Indicative of an imminent change?

5. Why does mobility matter?:
   "openness" to nurture creative competency in students

- Nurture capacity to acknowledge and learn from diversity.
- Develop intercultural awareness, interpersonal and communication skills to engage in international research and innovation settings.
- Ensure access to outstanding research teams, quality data, facility and opportunities.
- Improve employability

Osaka University’s OU Vision 2021
8 Open Education

Strategies
1. Provide undergraduate education to train skills applicable to the needs of society.
2. Provide graduate education to train the ability to create new value for society.
3. Strengthen global dimensions of education.
4. Reform entrance examinations to admit students with diverse backgrounds.
5. Promote diversity in learning.

9 What Osaka University does to enhance mobility and openness

3-1 Student mobility at Osaka University
3-2 Double degree programs
3-3 Short-term exchange programs: FrontierLab@OsakaU
3-4 Establishment of Institute for Datability Science
Student mobility at Osaka University

Double degree programs (21 as of 2016)
12 **Short-term exchange programs:** FrontierLab®OsakaU

**FrontierLab®OsakaU**
- A program to nurture creative competency in students
- Close supervision by internationally renowned scientists in science and technology
- Interactive and experiential learning

<table>
<thead>
<tr>
<th>Years</th>
<th>Numbers of international students</th>
<th>Numbers of international students from German universities (main sending universities)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>49</td>
<td>10 (RWTH Aachen, Technical University of Munich)</td>
</tr>
<tr>
<td>2013</td>
<td>52</td>
<td>16 (Technische Universität München, Cologne University, Bielefeld University)</td>
</tr>
<tr>
<td>2014</td>
<td>54</td>
<td>10 (RWTH Aachen, Augsburg University)</td>
</tr>
<tr>
<td>2015</td>
<td>74</td>
<td>10 (Heidelberg University, Göttingen University)</td>
</tr>
<tr>
<td>2016</td>
<td>60</td>
<td>12 (Ruhr University, Bochum, Bremen, Cologne Graduate School of Physics and Astronomy)</td>
</tr>
</tbody>
</table>

13 **Establishment of Institute for Datability Science**

**Create New Values**

Open Education / Open Research / Open Innovation

- Health Science
- Biotechnology
- Cognitive Neuroscience
- Human-Centric System Design
- Smart Systems
- Material Design
- Photonics and Quantum Systems
- Living Archives
- Artificial Intelligence and Mathematics
- Ethical, Legal and Social Issues
- Information and Communications Technology
- Data Mining
- Data Analysis
- Data Processing
- Data Modeling
- Data Recognition
- Data Acquisition

**AI Technology**
- Big Data Analysis

**Strategy**
Cultivate new, multidisciplinary fields of research with the full potential of our synergies
With Germany
with HeKKSaGOn

See you in Osaka in spring 2018
Curriculum Vitae of Guest Speakers
Wolfram Jäger
City of Karlsruhe
First Mayor

Education/Career

| 1968 – 1972 | Studies of Law at University of Freiburg |
| 1968        | A levels at Markgrafen-Gymnasium        |

Positions Held

Since October 2008 First Mayor of the City of Karlsruhe, responsible for cultural affairs, personnel and organisation, public safety and order, public services, urban development, civic involvement, and statistics and elections

- County Court Judge
  For 17 years Presiding Judge of juvenile court of lay assessors Land Court district Baden-Baden
  - 1988 – 2008 City Councillor and party whip, Durlach
  - 1980 – 1996 Deputy Chairman of County Party Committee
  - 1980 – 1984 Chairman of the “Junge Union” Karlsruhe (youth organisation of the German Conservative Party)

Awards, Decorations, and Memberships

- Chairman of Volkshochschule Karlsruhe (adult education centre)
- Chairman of Centre Culturel Franco-Allemand
- Chairman of County Party Committee with focus transboundary cooperation in the Middle Upper Rhine Region
- Chairman of Personnel and Organisation Committee of the Association of Cities in the State of Baden-Württemberg
Hidenao Yanagi
Consul General of Japan in Munich

Born 1958
March 1982  Graduation from University of Tokyo (International Relations, Faculty of Culture and Liberal Arts)
April 1982  Admittance to the Ministry of Foreign Affairs of Japan
July 1983 – June 1985  Studies at University of Konstanz, Germany
July 1985 – Feb. 1987  Embassy of Japan in Vienna, Austria (First Secretary)
Feb. 1987 – April 1996  several offices at the Ministry of Foreign Affairs, responsible for relations with European Union (economy), Korea and USA (security) etc.
May 1996 – Aug. 1999  Embassy of Japan in Bonn (Second Secretary, later Counsellor (politics))
Aug. 1999 – Aug. 2004  Head of Section at the Ministry of Foreign Affairs (responsible for Korea, analysis and policy planning)
Aug. 2004 – Sep. 2006  Embassy of Japan in New Delhi, India, Minister (economy)
Sep. 2006 – July 2009  Embassy of Japan in Berlin, Minister (politics)
July 2009 – Sep. 2012  Cabinet Officer, Deputy Director General
Sep. 2012 – March 2014  Ministry of Foreign Affairs, Head of Directorate for several responsibilities (Consulate, nuclear safety, Southeast and Southwest Asia)
April 2014 –  Consul General in Munich
Prof. em Dr. Dr. Keiichi Kodaira
Japan Society for the Promotion of Science
Bonn Liaison Office Director

Education/Career

1967.11. Dr. Sci., Astronomy, University Tokyo, Japan
1964.4. Dr. Sci., Physics, University Kiel, Germany
1961.3. Master of Science, Astronomy, University Tokyo

Professions Held

2008.7. – Director, Bonn Office, Japan Society for the Promotion of Science
2001.4. – 2008.3. President, Graduate University for Advanced Studies, Japan
1994.4. – 2000.3. Director General, National Astronomical Observatory of Japan
1982.11 – 1994.4. Professor, University Tokyo and Tokyo Astronomical Observatory

Awards and Memberships

2015 Commendation by Minister for Foreign Affairs of Japan
2001 Karl-Schwarzschild Medal 2001, Astronomische Gesellschaft, Germany
1996 Naming “KODAIRA” to Asteroid No.6500, International Astronomical Union

Publications

• “Macro- and Microscopic Views of Nearby Galaxies”
  (Karl-Schwarzschild Lecture 2001)
• 105 scientific papers in international astronomical/astrophysical journals
Dr. Holger Finken

German Academic Exchange Service – DAAD
Head of Section ST43 „Research Fellowship Programmes“

Personal data:

- **Name:** Dr. Holger Finken
- **Date of birth:** 22 December 1958
- **Place of birth:** Berlin
- **Family:** married, 1 son, 1 daughter

Positions held:

- German Academic Exchange Service
  - Head of Section ST43 „Research Fellowship Programmes“, 2015 –
- Exchange Service (DAAD)
  - Head of Section 424 „Japan, Korea, Australia and Oceania“, 2014
  - Resident Director, Tokyo Office, Japan, 2009 – 2014
  - Head of Section 325 „Russia, Belarus“, 2001 – 2009
- Freiberg University of Mining and Technology (TU Bergakademie Freiberg)
  - Head of Section, National and international research support /
    - European research programmes, 1999 – 2000
    - Assistant Professor, 1982 – 1995
- Others:
  - Coordinator, TEMPUS-TACIS Mobility project „Joint Education in Natural Resource Management“ 1998 – 2002
  - Secretary, Sub-Committee „Dictionary“, International Gas Union, 1992 – 1997

Education:

- Freiberg University of Mining and Technology
  - Doctorate in Engineering (Chemical Engineering), 1989
- Moscow Institute of Steel and Alloys, Moscow, Russia
  - Master in Engineering (Automation of Metallurgical Processes, Specialization: Electrometallurgy), 1982
Dr. Franziska Langer

Deutsche Forschungsgemeinschaft
German Research Foundation
Programme Officer International Affairs

Education/Career

Feb 2008 – April 2012  
**Dissertation**  
Eberhard Karls University Tübingen, Hertie Institut for Clinical Brain Research, Graduate School for Cellular and Molecular Neuroscience

Okt 2003 – Jan 2008  
**Studies in Biologie**  
University Hohenheim, Stuttgart

Okt 2002 – Juli 2003  
**Studies in Chemistry**  
Friedrich Schiller University Jena

Positions Held

Jul 2014 – now  
**Programme Officer International Affairs**  
Deutsche Forschungsgemeinschaft (DFG), Bonn  
International collaborations with partners in Asia, specifically India and Japan

Jul 2014 – Jan 2015  
**Programme Officer Scientific Affairs**  
Life Sciences, Neurosciences  
Deutsche Forschungsgemeinschaft (DFG), Bonn

Jul 2012 – May 2014  
Trainee in Science Management  
Deutsche Forschungsgemeinschaft (DFG), Overseas Office New York

Awards, Decorations, and Memberships

Juli 2012  
Hertie Stiftung, Paper of the Year Award
Publications


Franz Christopher Kränzler
lengoo GmbH
Co-Founder & CEO

Education

New York, NY
Columbia University: SEAS in conjunction with Columbia Business School
- Master of Science in Management Science and Engineering, current GPA: 3.8
- Awarded Fulbright Scholarship
- Ongoing Coursework: Operations Consulting, Business Analytics, Dynamic Pricing

Karlsruhe, Germany
Karlsruhe Institute of Technology (KIT):
- Top German business and engineering school
- Bachelor of Science in Business Engineering, GPA: 1.5 on 1.0 to 5.0 scale
- Coursework: Finance, Economics, Computer Science

San Diego, CA
University of California, San Diego
- Study abroad year, GPA: 4.00/4.00
- Coursework: Economics, Computer Science, and Electrical Engineering

Professional Experience

Karlsruhe, Germany
- Responsible for strategy and product:
  - Tasks include fundraising, recruiting, design of automation processes as well as the management of 10 full-time employees and 600 freelancers.
- Awarded ‘Founder of the Month’ Award by the Innovation Department of KIT in Dec 2013.

New York, USA
Columbia Business School: Teaching Assistant in ‘Managing the Growing Company (MBA), supervised by Professor Michael Preston
- Assisted in creating course materials and grading approx. 50 students
- Course material addressed stages of expanding a company, including strategic planning, operations and financial management
Frankfurt, Germany  
**Accenture GmbH: Intern in IT Consulting**  
Jul – Oct 2011  
- Created an account profile of a leading European logistics service provider.
- Supported the design of a rollout concept for the Europe-wide unification of the IT landscape, which included performing as-is-analyses of existing rollout processes, optimizing and developing templates and guidelines for rollout activities and presenting interim results to the company’s CIO.

New York, USA  
**S&P Capital IQ: Part-Time Consultant supervised by Professor Dr. Soulaymane Kachan**  
Sep 2014 – May 2015  
- Developed and implemented algorithm in R and VBA based on Logistic Lasso Regression to automatically predict attractive targets in the Private Equity sector based on historical investments at 91% accuracy

New York, USA  
**FreshDirect, LLC: Part-Time Consultant supervised by Professor Dr. Soulaymane Kachani**  
Sep 2014 – May 2015  
- Forecasted order volumes based on Moving Average and ARIMA based on historical data; accordingly optimized delivery schedules with deterministic model saving 50% of resources

**Skills**  
- **Computer Languages**: Java, Python, VBA, R, LaTeX, MATLAB, ProE, LabVIEW  
- **German (native)**, **Spanish (intermediate)**, **Portuguese (basic)**

**Interests**  
- Intercultural communication, tennis, fitness & strength training, surfing

**Extracurricular**  
Karlsruhe, Germany  
**KIT, ‘PionierGarage e.V.’: Mentor and active member**  
Nov 2009 – Aug 2014  
- Hold presentations on lessons learned from startup activities
- Provide guidance for young entrepreneurs in individual mentoring sessions.

**Publications**  
Kränzler C, Nagel J, Pylatiuk C: Harvesting kinetic energy to supply autonomous lighting on Nordic Walking poles  
lengoo’s proprietary technology is paving the way to making reliable machine translations become a reality.

lengoo is a global marketplace for expert translations that provides the infrastructure to efficiently collect quality-checked human translation data at a large scale in order to become a catalyst in making reliable machine translations become a reality. Our machine learning technology matches businesses with the best-qualified translators for any domain-specific translation job and beats existing agency models in quality, price and scalability. Through a MaaS solution targeted to thousands of boutique translation agencies around the globe, we are building the largest global network of expert translators and expedite the data collection process exponentially. Launched in 2015, 800+ companies from 10 countries work with 600+ translators in 15 languages and 30 industry fields on our platform today. We have bootstrapped the company to a high 5-digit monthly revenue.

Contact:
christopher.kraenzler@lengoo.de

Website:
www.lengoo.de

Twitter:
@LengooTweets
Overview on funding schemes for Japanese-German Cooperation Projects
Japan Society for the Promotion of Science (JSPS)

日本学术振兴会 (JSPS)

- Established in 1932
- Independent Administrative Institution under the jurisdiction of MEXT, with the following functions:

**Major Functions**

1. Provide funding support for research initiatives
2. Fosters researchers of the next generation
3. Supports international collaborations
4. Advances university reform
Overview on funding schemes for Japanese-German Cooperation Projects

JSPS Overseas Offices

JSPS Stockholm Office
JSPS Bangkok Office
JSPS TOKYO
JSPS San Francisco Office
JSPS Washington Office
JSPS Cairo Research Station
JSPS London Office
JSPS Beijing Office
JSPS Nairobi Research Station
JSPS Strasbourg Office
JSPS Bonn Office
JSPS San Francisco Office

International Collaboration Programs

INSTITUTION to INSTITUTION

Multilateral
• Core-to-Core Programme

Bilateral
• Joint Projects/Seminars

INDIVIDUAL
• Postdoctoral Fellowships
• Invitation Fellowships

GROUP to GROUP

PERSON TO PERSON
Core-to-Core Program –Type A. Advanced Research Networks-

**OBJECTIVE**
- Promote international collaboration in cutting-edge fields and create world-class research hubs
- Foster young researchers through networks among the most advanced research institutions in Japan and other countries
- Up to JPY 20 million/year/project x 5 years for Japanese
- Matching funds in partner countries are required

**FUNDING**

<table>
<thead>
<tr>
<th>Japan</th>
<th>Mutual support</th>
</tr>
</thead>
<tbody>
<tr>
<td>JSPS</td>
<td>Partner Agency</td>
</tr>
<tr>
<td>Core Institution</td>
<td>Core Institution</td>
</tr>
<tr>
<td>Cooperating Institutions</td>
<td>Cooperating Institutions</td>
</tr>
<tr>
<td>Partner Country (A)</td>
<td>Partner Country (B)</td>
</tr>
</tbody>
</table>

Bilateral Collaboration Based on MoUs

Specific countries, Specific fields, Joint supports prerequisite, based upon agreement
Bilateral Joint Research Project

The aim of this program is to intensify the cooperation between Japanese and German research groups, who have a joint research project. The focus is set on the advanced training and specialisation of young academics.

<table>
<thead>
<tr>
<th>Prerequisite</th>
<th>Target</th>
<th>Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Application can be made only through institutions.</td>
<td>• Researchers, Professors Pre- and Post-docs</td>
<td>• 15,000 Euro per year/project</td>
</tr>
<tr>
<td>• Japanese partner institution should make application in Japan.</td>
<td>Postgraduates (min. Bachelor / Master degree)</td>
<td></td>
</tr>
</tbody>
</table>

DAAD Submission

• Through DAAD

Submission

September

Bilateral Joint Seminars

DFG and JSPS agree to jointly support research collaboration between Germany and Japan and provide funding for holding joint seminars. For details, please refer to the DFG website.

http://dfg.de/dfg_profil/im_internationalen_kontext/internationale_partner/Japan/index.html
Japanese-German Graduate Externship
-International Research Training Groups

**OBJECTIVE**
- Promote systematic academic exchange between Japanese and German universities
- Foster young researchers in doctoral courses
- Advance international joint research

**FUNDING**
Up to 15 million Yen/year/project x up to 5 years

- Dispatch Doctoral Students and Faculty
- Provide Research Guidance
- Hold Joint Seminars

---

**Frontiers of Science(FoS) Symposiums**

**OBJECTIVE**
- Rethink boundaries between disciplines
- Cultivate new frontiers of research
- Foster future research leaders

**Planning Group Members**
- 6 or 8 basic areas
- Cutting-edge session topics
- Trans-disciplinary discussion

**Partner Organization**
- Alexander von Humboldt-Foundation
- National Academy of Sciences
- Royal Society ※FY2008 /2016 Only

**FoS Symposium**
Held once a year alternately in Japan and a partner country
JSPS Fellowship Programs for Research in Japan

Summer Program
- Pre/Post-doc, 2-12 months
- Post-doc, 12-24 months
- Associate professor, or Post-doc, 12-24 months

Postdoctoral Fellowships
- Pre/Post-doc, 1-12 months
- Post-doc, 12-24 months
- Assistant & Associate professors, or Post-doc, more than 6 yrs., 2-10 months

Invitation Fellowships
- Assistant & Associate professors, or Professors, or Post-doc, 7-30 days

Eligibility
- A citizen of US, UK, France, Germany, Canada or Sweden
- Master student, Ph.D. candidate, or Ph.D. (within past 6 years)

Period
- June to August, 2017

Support
- Round-trip airfare
- Maintenance Allowances (534,000 Yen)
- Overseas travel Insurance
- Research support allowance at the host institution (158,500 Yen)

Submission
- Through DAAD
- January 15, 2017

* Subject to change
### Postdoctoral Fellowship (Short-term) for North American and European Researchers

<table>
<thead>
<tr>
<th>Eligibility</th>
<th>Period</th>
<th>Support*</th>
</tr>
</thead>
</table>
| • US, Canada, EU Countries, Switzerland, Norway and Russia
• Ph.D. (within past 6 years) or Ph.D. candidate (scheduled to receive within 2 years) | 1 to 12 months | • Roundtrip air ticket
• Monthly allowance ($362,000/€2,943 for PhD; $200,000/€1,626 for pre-PhD)
• Settling-in allowance of $200,000/€1,626 (for more than 4 months stay)
• Research support allowance up to $70,000/month
• Overseas travel insurance coverage |

#### Submission
- Through DAAD (PhD candidates and Postdoc for less than 6 months’ stay)
- Through AvH (Postdoc for more than 6 months’ stay) or
- Japanese host submits applications to JSPS (Tokyo)

<table>
<thead>
<tr>
<th>Submission to Japan</th>
<th>Starting*</th>
</tr>
</thead>
<tbody>
<tr>
<td>October 2016</td>
<td>Apr. 2017 – Mar. 2018</td>
</tr>
<tr>
<td>June 2017</td>
<td>Jan. 2017-Mar. 2018</td>
</tr>
</tbody>
</table>

### Postdoctoral Fellowship (Standard)

<table>
<thead>
<tr>
<th>Eligibility</th>
<th>Period</th>
<th>Support*</th>
</tr>
</thead>
</table>
| • All countries*  
• Ph.D. (within past 6 years)  
*countries that have diplomatic relations with Japan | 12 to 24 months | • Roundtrip air ticket
• Monthly allowance ($362,000/€2,943)  
• Settling-in allowance of $200,000/€1,626  
• Research support allowance (up to $1,500,000/year ≈ €12,195/year) to cover cooperative research expenses  
• Overseas travel insurance coverage |

#### Submission
- Through AvH or
- Japanese host submits applications to JSPS (Tokyo)

<table>
<thead>
<tr>
<th>Submission to HQ</th>
<th>Starting date</th>
<th>Number of Awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>August 2016</td>
<td>April-September 2017</td>
<td>125 person</td>
</tr>
<tr>
<td>April 2017</td>
<td>September-November 2017</td>
<td>125 person</td>
</tr>
</tbody>
</table>

- Family allowances for marital partners and children
- Reintegration allowance for attending job interviews, etc.
- A return fellowship for a maximum of twelve months immediately following the research stay abroad
- Alumni sponsorship
Invitation Fellowship Program (Long-term)

<table>
<thead>
<tr>
<th>Eligibility</th>
<th>Period</th>
<th>Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>• All countries*</td>
<td>2 to 10 months</td>
<td>• Roundtrip air ticket</td>
</tr>
<tr>
<td>• Assistant &amp; Associate professors, and Professors</td>
<td></td>
<td>• Monthly maintenance allowance (¥387,000 = €3,146)</td>
</tr>
<tr>
<td>• Ph.D. more than 6 years</td>
<td></td>
<td>• Research support allowance of up to ¥150,000 = €1,219</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Overseas travel insurance coverage</td>
</tr>
</tbody>
</table>

*countries that have diplomatic relations with Japan

Submission

- Japanese host submits applications to JSPS (Tokyo) only

<table>
<thead>
<tr>
<th>Submission</th>
<th>Starting Date</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>August</td>
<td>April 1 - March 31 of the following year</td>
<td>60 person</td>
</tr>
</tbody>
</table>

Invitation Fellowship Program (Short-term)

<table>
<thead>
<tr>
<th>Eligibility</th>
<th>Period</th>
<th>Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>• All countries*</td>
<td>14 to 60 days</td>
<td>• Roundtrip air ticket</td>
</tr>
<tr>
<td>• Researchers in a position equivalent to a professor or associate professor in Japan</td>
<td></td>
<td>• Daily allowance (¥18,000 = €146)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Research Support Allowance (up to ¥150,000 = €1,184)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Overseas travel insurance coverage</td>
</tr>
</tbody>
</table>

*countries that have diplomatic relations with Japan

Submission

- Through DAAD for 2017 or after 2018
- Japanese host submits applications to JSPS (Tokyo) only

<table>
<thead>
<tr>
<th>Submission</th>
<th>Starting Date</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>August 2016</td>
<td>April 1, 2017 – March 31, 2018</td>
<td>100 person</td>
</tr>
<tr>
<td>April 2017</td>
<td>October 1, 2017 – March 31, 2018</td>
<td>80 person</td>
</tr>
</tbody>
</table>
Revisiting Fellowship Program for Research in Japan

**Doctoral students/Post-doc**
- **Mid career**
- **Professor**
- **Nobel Laureate**

**Postdoctoral Fellowships**
- **Summer Program**
  - Pre/Post-doc
  - 2 months
- **Postdoctoral Fellowship Short-term**
  - Pre/Post-doc
  - 1-12 months
- **Postdoctoral Fellowship Standard**
  - Post-doc within 6 yrs.
  - 12-24 months
- **Postdoctoral Fellowship Pathways to Univ. Positions in Japan**
  - Associate Professor
  - Beyond 6 yrs.

**Invitation Fellowships**
- **Invitation Fellowship Long-term**
  - Assistant & Associate Professors, and Professors or Post-doc
  - 2-10 months
- **Invitation Fellowship Short-term**
  - Researchers with Excellent Records of achievement
  - 7-30 days

**Bridge Fellowship for Alumni members**
- Revisiting Japan for 14 days – 45 days, 5 persons/year
  - at least 5 years interval -> JSPS-Bonn

**Support for Outbound Young Japanese Researchers**

**Postdoctoral Fellowship for Research Abroad **<Individual Support>**

- FY 2013: 441 persons / 22 countries
- FY 2014: 456 persons / 22 countries
- Tenure: 2 years
- Financial Support: 3.8 - 5.2 million Japanese yen / year / person

**Program for Advancing Strategic International Networks to Accelerate the Circulation of Talented Researchers** <Organizational Support>

<table>
<thead>
<tr>
<th></th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Projects</td>
<td>68</td>
<td>96</td>
<td>124</td>
<td>84</td>
<td>80</td>
</tr>
<tr>
<td>Countries</td>
<td>28</td>
<td>47</td>
<td>55</td>
<td>46</td>
<td>48</td>
</tr>
<tr>
<td>Dispatched</td>
<td>185</td>
<td>414</td>
<td>530</td>
<td>387</td>
<td>782</td>
</tr>
<tr>
<td>Invited</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>88</td>
</tr>
</tbody>
</table>

Duration of Projects: 1 - 3 years
Financial Support:
- Up to 40 million Japanese yen / year / project
Vielen Dank für Ihre Aufmerksamkeit!

JSPS
Bonn Office Team
Overview on DAAD Funding Schemes for Japanese-German Cooperation Projects

Karlsruhe, September 29, 2016

The German Academic Exchange Service (DAAD) is ...

A self-governing organisation of German universities:

- 239 member universities
- 121 student unions
Overview on funding schemes for Japanese-German Cooperation Projects

Three strategic areas of activity

SCHOLARSHIPS FOR THE BEST

- Grant scholarships to the best
  - so that the professionals and leaders of tomorrow can gain qualifications at the best locations, prepare for positions of responsibility and cultivate contacts throughout the world.

EXPERTISE FOR ACADEMIC COLLABORATION

- Offer expertise for academic collaboration
  - so that academic and political leaders are able to make well-informed policy decisions.

STRUCTURES FOR INTERNATIONALISATION

- Create structures that promote internationalisation
  - so that higher education institutions can improve the quality of research and instruction and address the challenges of the future with strong partners.
  - so that more people can cross borders and achieve success in study and research.
  - so that German remains an important language of culture and scholarship.
  - so that higher education institutions may contribute to development and build bridges to surmount conflicts.

Goals and tasks of the DAAD

Grant scholarships to the best
- so that the professionals and leaders of tomorrow can gain qualifications at the best locations, prepare for positions of responsibility and cultivate contacts throughout the world.

Create structures that promote internationalisation
- so that higher education institutions can improve the quality of research and instruction and address the challenges of the future with strong partners.
- so that more people can cross borders and achieve success in study and research.
- so that German remains an important language of culture and scholarship.
- so that higher education institutions may contribute to development and build bridges to surmount conflicts.

Offer expertise for academic collaboration
- so that academic and political leaders are able to make well-informed policy decisions.
Overview on funding schemes for Japanese-German Cooperation Projects

Japanese Student Enrolment at German Universities
German Student Enrolment at Japanese Universities

DAAD Funding (Germans and Japanese) 2015

Individual funding
- 42 Students 57
- 52 Graduates 143
- 10 Scientists and Academics 52

Project funding
- 86 Students 267
- 92 Graduates 236
- 48 Scientists and Academics 68
**DAAD Funding for Cooperation Projects**

- **Partnerships with Japan and Korea (PaJaKo):**
  To strengthen existing partnerships and initiate new bilateral or trilateral partnerships between Germany, Korea and Japan through funding the exchange of individuals and groups (since 2006)

- **Matching Funds Program with the University of Tsukuba** (since 2012)

- **Matching Funds Program with the Waseda University** (since 2013/14)

- **DAAD-JSPS Joint Research Program:**
  To intensify research collaboration between Japanese and German research groups

---

**Partnerships with Japan and Korea (PaJaKo) since 2006**

- Exchange of students, graduates, Ph.D candidates and researchers on a long term basis within new or established partnerships between
  - German and Japanese institutions (bilateral)
  - German, Japanese and Korean institutions (trilateral)
Partnerships with Japan and Korea (PaJaKo)

**Objectives**
- To foster long-term cooperation between institutions of higher education through funding the exchange of individuals and groups.
- To strengthen existing partnerships and initiate new bilateral or trilateral partnerships between Germany, Korea, and Japan.

**Funding measures**
- Various measures for foreign and German participants can be combined, e.g.:
  - Joint research conducted by groups of researchers (including early career researchers and junior scholars)
  - Individual stays for research and education purposes
- Funding period up to 2 years, extension possible (flexible time frame up to one year for individuals)
- Mobility costs: travel and living allowances up to a maximum of 30,000 € (bilateral) and 50,000 € (trilateral)

Matching Funds Programmes with the University of Tsukuba and the Waseda University

- **Matching Funds Programme with the University of Tsukuba**: Consolidation of existing cooperations and initiation of new cooperations between the University of Tsukuba and German universities
- **Funding** for the mobility between the partner institutions for study and research stays. (DAAD – mobility costs of German participants; U Tsukuba – mobility costs of Japanese participants)
- **Target group**: Scientists, faculty, postdocs, PhD students and graduate/undergraduate students after completion of their 2nd year of studies. The focus is on funding young scientists.
- **Matching Funds Programme with the Waseda University**: Consolidation of existing cooperations and initiation of new cooperations within the framework of existing partnerships or on the basis of MoUs
- **Funding** for the mobility and stays at the partner institutions, for study and research stays. (DAAD – costs of German participants; Waseda U – costs of Japanese participants)
The MoU between the DAAD and the JSPS was signed in 2012

**Aims of the programme:**
- Intensifying research collaboration between Japanese and German research groups
- Promotion of mobility
- Training and Specialisation of young academics

**Programme information:**
- 6 joint projects (10 from 2017)
- Subject Area: all fields
- Duration: up to 2 years
- Amount of Funding: up to 15,000 Euros per project per year (DAAD) and up to 2,500,000 JPY per fiscal year (JSPS)

**Target groups:**
Academic staff member, graduates, PhD students, postdocs
### Partnerships with Japan and Korea (PaJaKo), 2016

**DAAD-JSPS Joint Research Program, 2016/17**

<table>
<thead>
<tr>
<th>German University</th>
<th>Japanese University</th>
<th>Subject</th>
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<tbody>
<tr>
<td>Universität Erlangen-Nürnberg</td>
<td>Nagoya Institute of Technology (NITECH)</td>
<td>Engineering</td>
</tr>
<tr>
<td>Hochschule für Musik Würzburg</td>
<td>Hokkaido University of Education</td>
<td>Music</td>
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<tr>
<td>Universität Oldenburg</td>
<td>Kagoshima University</td>
<td>Science Didactics</td>
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<tr>
<td>Technische Universität Dresden</td>
<td>Seoul National University, Korea</td>
<td>Maths Exchange with Japan and Korea</td>
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<tr>
<td><strong>Trilateral</strong></td>
<td><strong>Kansai University, Japan</strong></td>
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<tr>
<td>Universität Leipzig</td>
<td>Keio University</td>
<td>Economics</td>
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<tr>
<td>Universität Trier</td>
<td>Kobe University, Waseda University</td>
<td>Germany, Japan and Russia</td>
</tr>
<tr>
<td>Kath. Universität Eichstätt-Ingolstadt</td>
<td>Nagasaki Junshin Catholic University</td>
<td>Primary Education</td>
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<td>Katholische Hochschule Freiburg</td>
<td>Me University</td>
<td>Inclusion in Education and Health</td>
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<tr>
<td>Hochschule für Forstwirtschaft, Rottenburg</td>
<td>Kagoshima University</td>
<td>Pathways to Sustainable Forest Managemen</td>
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<th>DAAD-JSPS Joint Research Program, 2016/17</th>
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<tr>
<td><strong>German University</strong></td>
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<tr>
<td>Max Planck Institute for Private Law, Hamburg</td>
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<td>Laser Center Hannover</td>
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<td>Max Planck Institute for Extraterrestrial Physics, Garching</td>
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<td>Geisteswissenschaftliche Zentren Berlin</td>
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<td>DESY Hamburg</td>
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<td>Kassel University</td>
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### DAAD Thematic Networks

- **Karlsruhe Institute of Technology** – **Waseda University and Nara Institute of Science and Technology**, „CLICS – Continuous Learning in International Collaborative Studies“, 2015-2018

- **Universität Bielefeld** – **Osaka University**, Interactive Intelligent Systems, 2015-2018

- **Universität Mainz** – **Tohoku University**, „SpinNet“, 2013-2016

- **Universität Bonn** – **Japan Advanced Institute of Science and Technology**, 2015-2018

- **Hochschule Trier** – **Ritsumeikan Asia Pacific University**, „IMAT – Network University“, 2015-2018
### International Study and Training Partnerships (ISAP) and Joint Degree Programmes

- Kyoto University – Universität Heidelberg, Cluster "Asia and Europe"
- Osaka University – Universität Heidelberg, Japan Studies
- Tohoku University - Universität Paderborn, Economics
- Okayama University – Technische Universität Dresden, Envir. Sciences
- Keio University Tokyo – Universität Halle-Wittenberg, Japan Studies
- Hiroshima City University – Hochschule Hannover, Design
- Hitotsubashi University – Universität Köln, Business Administration
- Oita University – Universität Paderborn, Economics
### Individual DAAD grants for Japanese students and young researchers

- German Language Summer / Winter Courses in Germany for Foreign Students and Graduates
- Intensive Language Courses in Germany for Foreign Students and Graduates
- Study Scholarships for Graduates of all disciplines
- **Research Grants**
  - Doctoral Programmes in Germany
  - Bi-nationally Supervised Doctoral Degrees
  - One-year grants
  - Short-term grants

### Major individual DAAD grants for Germans

- Annual and short grants (for studies, research or PhD)
- Language and practice in Japan
- Postdoc program
- Postdoc fellowships for research stays at the National Institute of Informatics (NII)
- Partnerships with Japan and Korea
<table>
<thead>
<tr>
<th>Individual grants for Germans from Japanese Institutions</th>
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<tbody>
<tr>
<td><strong>JSPS</strong></td>
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<tr>
<td>• JSPS Invitation Program (for German Scientists)</td>
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<td>• JSPS Summer Program for young graduates and PhD</td>
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<tr>
<td>students</td>
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<tr>
<td>• JSPS Postdoctoral Fellowship Programme (Short Term)</td>
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<tr>
<td>• DAAD-JSPS Joint Research Program</td>
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<tr>
<td><strong>MEXT</strong></td>
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<tr>
<td>• JAPANESE GOVERNMENT (MONBUKAGAKUSHO:MEXT) Scholarship for Research Students</td>
</tr>
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</table>

Dr. Holger FINKEN
Head of Section ST43 „Research Fellowship Programmes“
Speaker, DAAD Japan Programmes
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German Academic Exchange Service
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53175 Bonn
www.daad.de

どうもありがとうございました。

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Overview on funding schemes for Japanese-German Cooperation Projects

DFG
Excellence in the German Science System
September 29th 2016
Dr. Franziska Langer

The German Research Landscape
Research Funding Organizations (internationally relevant)

Projects
Mobility
People

Dr. Franziska Langer, DFG
10/5/2016
The DFG is the largest independent research funding organization in Germany.

It is an association under German private law.

Its member organizations include German universities, non-university research institutions, academies of sciences and humanities, and scientific associations.

It serves all branches of science and the humanities by funding research projects and facilitating cooperation among researchers.

Dr. Franziska Langer, DFG
10/5/2016
Introducing the DFG

The DFG is funded by:

- German federal government (67.4%)
- German states (32.5%)
- Private sources (0.1%)*

The DFG’s 2014 budget totalled approx. € 2.86 billion.

Project funding by DFG goes:

- 90% to universities
- 10% to extra-university institutions

* Figures refer to revenues in 2014

Funding in 2014, by scientific disciplines

Research topic: open, bottom-up

Type of research: basic research in any field of science and the humanities

Deadlines: none*

* Exceptions: Priority Programmes, international activities, workshops for early career investigators
The main **selection criteria** include

- Applicants’ scientific qualifications
- **Project quality** (originality, expected knowledge gain, etc.)
- Research objectives and work programme
- Feasibility of the proposal with regard to funding and staffing resources
- Host selection and scientific environment

---

**DFG’s Funding Programmes for International Cooperation**

The DFG fosters international cooperation in **all funding programmes** through:

- initial funding for bilateral cooperation
- fellowships abroad for postdoctoral researchers
- joint calls for proposals with partner organisations
- International Research Training Groups
- international scientific events
- Mercator Programme

International modules, such as additional travel expenses, personnel exchanges, etc., may be applied for in all DFG funding programmes.
Overview on funding schemes for Japanese-German Cooperation Projects

DFG’s Funding Programmes from initiation to larger-scale coordinated programmes

- Joint Trans-Regional Collaborative Research Centres
- Participation in national CRCs
- International Research Training Groups
- Participation in national IRTGs
- Priority Programmes
- Research Units
- Joint Calls
- Cooperative networks
- Fostering of Young Scientists (Lindau programme)

Initiation of International Cooperation

Dr. Franziska Langer, DFG
10/5/2016

DFG’s Funding Programmes for International Cooperation
Examples for cooperation with Japan

- Joint Calls
- Cooperative Networks
- Priority Programmes

Initiation of International Cooperation
JSPS Joint Seminars / Workshops

Dr. Franziska Langer, DFG
10/5/2016
DFG’s Funding Programmes for International Cooperation
Funding for the Initiation of International Collaboration

This programme

• enables initial contacts and enhances cooperation with foreign partners

• offers a flexible framework for cooperation, allowing different elements to be combined (preparatory and cooperative visits, bilateral events such as workshops, etc.)

Different elements within the above framework can be funded over a period of one year

⇒ JSPS-DFG Joint Seminars

DFG’s Funding Programmes for International Cooperation
Research Grants

• This programme enables scientists to carry out a thematically defined research project within a specific time frame

• Eligible are researchers from all disciplines at German research institutions who have completed their scientific training

• Applicants can combine different funding modules they need to complete their research

• There is no quota for cooperation with certain countries

• There are no special funds for proposals for international cooperation

Dr. Franziska Langer, DFG
10/5/2016
International Research Training Groups provide a joint framework for
- international promotion of young researchers at centres of scientific excellence
- coordinated research and qualification programmes
- Mentoring

The proposal is submitted jointly to the DFG or a foreign partner organization by a group of researchers at a German university and a partner group at a foreign university.

→ The Japanese-German Graduate Externship

The Japanese-German Graduate Externship – currently funded
- Transformation of Civil Society: Japan and Germany in Comparison (Universität Halle and University of Tokyo, since 2007)
- Mathematical Fluid Dynamics (Waseda University and TU Darmstadt, since 2009)
- Selectivity in Chemo- and Biocatalysis (Osaka University and RWTH Aachen, since 2010).
- Deep Earth Volatile Cycles (Tohoku University and Universität Bayreuth, since 2016)
What we do in our Representations abroad:

- **Informing the scientific community**
  - funding possibilities for bilateral collaboration

- **Organizing scientific meetings**

- **Creating framework conditions**
  - leading to a sustainable impact on joint research projects between German and international researchers

- **Cooperating with funding bodies**
  - create opportunities for bilateral research

- **Creating and attending platforms for the definition of funding policies**
  - science-driven cooperation between German / European and Japanese funding bodies
Get in Contact with German Researchers
Online databases to find research projects and scientists in Germany

Research Explorer
(interactive map of German research landscape)
www.dfg.de/research_explorer/

GEPRIS
(online database on current DFG-funded projects)
www.dfg.de/gepris/

For further information
- www.dfg.de
- www.dfg.de/japan
- Dr. Franziska Langer
- franziska.langer@dfg.de
Working Group Meetings
Work Group Meeting I
Life and Natural Science Fusion

Chair: Prof. Dr. Martin Bastmeyer (KIT)
Co-Chair: Motomu Tanaka (Univ. Heidelberg, Kyoto Univ.)

Program

Friday 30th September 2016, 9:00 – 12:00

09:00 – 09:15  Prof. Dr. Tatsuo Arai, Micro-Robotics (Osaka Univ.)
09:15 – 09:30  Prof. Dr. Christof Wöll, Surface Science (KIT)
09:30 – 09:45  Prof. Dr. Motomu Tanaka, Physical Chemistry
               (Heidelberg & Kyoto Univ.)
09:45 – 10:00  Prof. Dr. Anthony D. Ho, Hematology (Heidelberg Univ.)
10:00 – 10:15  Prof. Dr. Tatsuaki Tsuruyama, Pathology (Kyoto Univ.)
10:15 – 10:30  coffee break
10:30 – 10:45  Prof. Dr. Jonathan Sleeman, Pathobiology (Heidelberg Univ.)
10:45 – 11:00  Prof. Dr. Ute Schepers, Chemical Biology (KIT)
11:00 – 11:15  Prof. Dr. Martin Bastmeyer, Cell- and Neurobiology (KIT)
11:15 – 11:30  Prof. Dr. Kazumasa Ohashi, Cell Biology (Tohoku Univ.)
11:30 – 12:00  Final discussion on future developments of working group I:
               • Scientific collaborations via short-term exchange of doctoral researchers and postdocs
               • Next summer school
               • Possible resources for funding
                 (DAAD, private foundations, center programs)
5th HeKKSaGOn Work Group I
“Life and Natural Science Fusion”
Work Group Report
Sept. 30, 2016, Karlsruhe
Chair: Martin Bastmeyer (KIT)
Co-Chair: Motomu Tanaka (Heidelberg/Kyoto)

The First Contact (July 2010, Heidelberg)

Symposium “Life Sciences Meet Natural Sciences”
July 30, 2010
Heidelberg (Germany)
Coordinators: M. Tanaka (Heidelberg), N. Nakatsuji (Kyoto)

8:10 Meeting Point: Hotel Europäischer Hof, Lobby

Venue 1: Lecture Hall / Chemistry (INF252)

8:30 Registration, Poster Set-up
9:00 Welcome: Motomu Tanaka (Heidelberg)

Topic 1: Stem Cell Biology and Development

Speakers
A. Ho, T. Holstein (HD)
T. Ohta, N. Nakatsuji (Kyoto)
M. Bastmeyer, D. Wedlich (KIT)
C. Schmidt (GÖ), A. Ishijima (Tohoku)
Since 2010

(1) **3 Summer/Winter Schools** (2012 (HD), 2014 (KIT), 2015 (Kyoto))

(2) **7 Scientific Symposia** (held in Japan and Germany)

(3) **2 HeKKSaGOn Professors**
   - 2013: Motomu Tanaka (HD – Kyoto)
   - 2014: Kenichi Yoshikawa (Kyoto – HD)

(4) **Numerous bi-trilateral Cooperations**

Our Tradition: Hold a Scientific Meeting on Day 1

In Sendai: Hosted by Masaaki Sato (FRIS, Tohoku)
Our Tradition: Hold a Scientific Meeting on Day 1

In Karlsruhe: Hosted by Martin Bastmeyer (Inst. Zool., KIT)

Hosts: Motomu Tanaka (iCeMS, Kyoto) & Akira Harada (Chem, Osaka)
B. Richter (Phys/KIT) R. Suzuki (Phys/Kyoto)
T. Ichikawa (Bio/Kyoto)

Host: U. Engel (NIC/HD)

Extremely Multilateral/Multidisciplinary

B. Richter (Phys/KIT) R. Suzuki (Phys/Kyoto)
T. Ichikawa (Bio/Kyoto) T. Michitaka (Chem/Osaka)

Hosts: Motomu Tanaka (iCeMS, Kyoto) & Akira Harada (Chem, Osaka)
Host: T. Holstein (Bio/HD)

Host: U. Engel (NIC/HD)
Host: C. Banner-Kowolik (Chem/KIT)
Scientific Collaboration

- bi- and trilateral collaborations: we are already excellent
  (supported by our own funding)

- short term exchange of Doctoral researchers (1-3 month)
  - support by DAAD and private foundations
  - support by center programs:
    Germany:
    BIFTM, KIT-Fellowships (KHYS)
    CRCs in Göttingen, Heidelberg, Karlsruhe
    HeKsaGOn-Fellowships, Graduate Academy

  Japan:
  Priority Programs (Shingakujutsu)
  Center Projects

Student Exchange and Education

Winter/Summer Schools (we will definitely keep!)

External Funding by combined efforts with International Offices

Exchange of MSc (and PhD students)

- 4-6 weeks course (CPs?)
- semester-level (undergraduate via DAAD)
- MSc ERASMUS+: multilateral (1-2 years)

PhD programs between Germany and Japan

- IRTG
- ITN
- GRK
Work Group Meeting II
Coordination Chemistry for Energy Conversion, Catalysis and Nanotechnology

Chair and Co-Chair: Markus Enders (Heidelberg University),
Masahiro Yamashita (Tohoku University)

Program
Friday 30th September 2016, 9:00–12:00

- 9:00  Introduction (Markus Enders)
- 9:05  Hiroshi Kitagawa (Kyoto)
- 9:30  Annie Powell (KIT)
- 9:55  Mario Ruben (KIT)
- 10:20 Masahiro Yamashita (Tohoku)
- 10:45 Markus Enders (Heidelberg)
- 11:10 Hitoshi Miyasaka (Tohoku)
- 11:35 Sven Schneider (Göttingen)
Coordination Chemistry for Energy Conversion, Catalysis and Nanotechnology

- Heidelberg University:
  Markus Enders
  Peter Comba
- University of Göttingen:
  Franc Meyer
  Sven Schneider
  Guido Clever (now at Dortmund)
- Karlsruhe Institute of Technology:
  Marion Ruben
  Annie Powell
- Tohoku University:
  Masahiro Yamashita
  Hitoshi Miyasaka
- Osaka University:
  Shinobu Itoh
  Shunichii Fukuzumi (now at Nagoya)
- Kyoto University:
  Hiroshi Kitagawa
Single Molecule Magnets (SMMs)
- ideal objects for getting fundamental knowledge about magnetism and several quantum phenomena

Possible Applications in:
- High density storage devices
- Spintronics
- Quantum Computers

other scientists at HeKKSaGOn Universities:
Karlsruhe:
W. Wernsdorfer
(Humboldt Prof. since 2016)

Osaka:
Several groups working on SMMs

Heidelberg:
R. Klingeler (Physics)
Coordination Chemistry for Energy Conversion, Catalysis and Nanotechnology

what we have already achieved:
- successful bilateral cooperations (german-japanese)
- exchange of Master/PhD-students (e.g. ICI-ECP)
- large overlap in research interest
- common and complementary competences
several co-authored papers
  (6 published, ~ 6 in the next 12 months

what we want to do in the future:
- include other people into our cooperation
- more common publications
- a workshop with more time for science (e.g. in Osaka 2018)
Work Group Meeting III
Social Sciences and Humanities

Chair: Prof. Dr. Harald Fuess, Excellence Cluster Asia-Europe, Heidelberg University
Co-Chair: Dr. Alexandra Hausstein, Institute of Technology Futures, KIT

Technology, Culture, and Society

Modernity – in its various phases and alternatives – increasingly and ever faster makes visible how technoscientific phenomena are inextricably intertwined and interdependent with social, cultural, political, and economic factors, artifacts, techniques, and institutions. Going beyond the fallacies of either techno- or sociodeterminisms, this working group will explore and discuss the complex relationship between technology, culture, and society. We invite scholars from universities in the HeKKSaGOn consortium to submit papers debating the role of technology in culture and society in historical and current societal discourses as well as scientific, social and literary practices of creating, representing, and governing. In order to facilitate the conversation between scholars from Japan and Germany, we encourage presentations exploring the interactive processes of knowledge creation and technological diffusion between East Asia and Europe. As this working group intends to further interdisciplinary exchange, contributions from various disciplines of Social Sciences and Humanities, i.e. Science-Technology-Society Studies, History, Philosophy, Literary Studies, Cultural Studies, Religion, Art history, Sociology, Anthropology, Political Science, Law, Economics are welcome.

Program

8:30 Welcome

Chair Prof. Dr. Harald Fuess, Excellence Cluster Asia-Europe, Heidelberg University
Co-Chair Dr. Alexandra Hausstein, Institute of Technology Futures, KIT
**Session I  Technology, Risk, Morality after Fukushima**

Chair: Alexandra Hausstein, Karlsruhe Institute of Technology

- **8:40 – 9:00**
  Prof. Dr. Kiyotaka Naoe, School of Arts and Letters, Tohoku University
  Acceptable Risk and Responsibility

- **9:00 – 9:20**
  Prof. Dr. Armin Grunwald, Inst. of Technology Assessment & Systems Analysis, KIT
  Responsibility across generations: the German approach to nuclear waste disposal

- **9:20 – 9:40**
  Prof. Dr. Saku Hara, School of Arts and Letters, Tohoku University
  Science and Morality – Risk Communication after the Nuclear Disaster in Fukushima

- **9:40 – 10:00**
  Prof. Dr. iur. Christian Förster, Heidelberg University
  After Fukushima – Liability for Nuclear Damage

- **10:15 – 10:30  Coffee Break**

**Session II  History and Philosophy of Technology**

Chair: Prof. Dr. Marcus Popplow, Karlsruhe Institute of Technology

- **10:30 – 10:50**
  Prof. Dr. Mariko NIHEI, Research Institute of Electrical Communication, Tohoku Univ.
  Stability and Normativity of Thing Knowledge
10:50 – 11:10
Prof. Dr. Kurt Möser, Institute of History, Karlsruhe Institute of Technology
Colonial Wars Made New: Innovative Mobility Technologies and Power Projection after 1900

11:10 – 11:30
Prof. Dr. Eric Fongaro, Tohoku University
Bodily Creativity: On a Possibility for Art in the Time of Technology

Session III  Technology, Art, and Literature
Chair: Prof. Dr. Takashi Sugiyama, Associate Professor of the Department of Aesthetics and Art History, Graduate School of Letters, Kyoto University

11:30 – 11:50
Prof. Dr. Akihiro Ozaki, Tohoku University
Rembrandt’s Aesthetic Technology: The Range of Pictorialization of Emotions in the Passion Series (Alte Pinakothek, Munich)

11:50 – 12:10
Prof. Dr. Judith Arokay, University Heidelberg
Digital Cartography of Literary Places

Final Session Plans for HeKKSAGOn in Osaka 2018

12:10 – 12:30
Planning HeKKSaGOn 2016 in Osaka
Chair: Professor Kotaro Yoshida, Osaka University
Discussant/Chair: Prof. Dr. Harald Fuess, Heidelberg

12:30h Lunch
Abstracts:

Acceptable Risk and Responsibility
Kiyotaka Naoe (School of Arts and Letters, Tohoku University)

After the Fukushima nuclear accident “Social responsibility of Scientists” is often discussed. But the scope of the discussion seems to be limited so long as it concerns mainly an individual moral responsibility and responsibility of scientists in general. Instead, in this presentation, I will discuss how to think of responsibility of engineers (and citizens) in the technological system, especially under condition of uncertainty.

Concerning the accident many investigation reports are published. It becomes gradually clear where failures exist. Engineering scientists and the officers in regulatory bodies, and also the TEPCO executives are experts knowledgeable enough to understand the necessity of implementing effective countermeasures to prevent severe accidents. But they postponed deciding the regulation. On the other hand, the discussion about the severe accident caused by currently unexpected causes treated as relying on “unreasonable assumption”. As a result severe accident countermeasures in Japan disregarded international standards. Lack of the belief in reality of the worst thing constitutes a serious obstacle. Postponement is a irresponsible attitude, much worse than the decision of not to do.

One can call this decision system as the massive ‘system of irresponsibilities’ (the words of Masao MARUYAMA, a famous Japanese political scientist after the second war.) One chairperson of the Investigation Committee ascribes this structure to Japanese culture, but it is highly problematic whether our culture in general is the real cause. I think we can drew much more general lessons from the accident.

As a clue, I try to expand the notion of “responsibility” in this presentation. Responsibility is usually used in backward-looking way, But forward-looking way is also significant. The problem is that as a bureaucrat, as an executive, or as an engineering scientist members of the Nuclear Community are in every respect normal. As a subjective side of responsibility, civic virtue is necessary; virtue is an attitude of concern for the welfare of others and humanity, by taking distance from the existing meaning, and having political understanding and political imagination. As an objective concrete example of the forward-looking responsibility, I will mention the responsible innovation accompanied by transparent, interactive decision-process, and for the fair and democratic ethical safety assessment, I will examine the notion of “responsible stewardship”.

Science and Morality –
Risk Communication after the Nuclear Disaster in Fukushima
Saku HARA (School of Arts and Letters, Tohoku University)

Accident at the Fukushima Daiichi nuclear power plant caused radioactive substances to be scattered around large parts of eastern Japan. Because of this accident, many people living in disaster area became anxious about radiation risk. Science council of Japan and some academic societies repeatedly gave out information that radiation risk caused by this nuclear disaster is not very high, so that people do not needed to be anxious about it. However, this risk communication done by scientists was not effective enough to reduce people’s anxieties about radiation, nor increase people’s trust in scientists. Why a safety campaign done by scientists after the nuclear disaster in Japan failed?

“President Statement by 34 Learned Societies in Japan--Japan will not stop progressing scientifically” (April 27, 2011) was addressed by “34 Learned Societies“ including scientific societies responsible for maintenance and management of nuclear power plants. However, The statement did not mention to their responsibility for the destruction of the nuclear power plant. Instead, it was maintained that scientists in Japan were responsible for engaging in risk communication to insure accurate information concerning the Fukushima nuclear accident, that is to say, the information that the risk caused by the nuclear accident was not so high. This statement nicely described how many scientists behaved themselves in front of people anxious about radiation risk.

As P. F. Strawson points out in his paper “Freedom and Resentment“ (1962), concept of “moral responsibility“ is grounded upon social interactions of people who praise and blame others, and are praised and blamed by others. These social interactions are normally motivated by emotions such as resentment, shame, sympathy, sense of guilt, and so forth. People recognize one another as moral agents when they take part in these emotional social interactions. In safety campaign done by scientists, they leave their responsibility unquestioned, while they regard anxiety of citizens about radiation risk as a sign of their irrationality. Because of this attitude, scientists engaging in safety campaign are not seen as members of a common moral community and distrusted.
Stability and Normativity of Thing Knowledge
Mariko Nihei (Research Institute of Electrical Communication, Tohoku University)

The concern with the role of instruments or devices in the creation of scientific knowledge is relatively new in philosophy of science. Although it has been suggested that success of instruments don’t always imply success of scientific theories, there seems to be no established view to understand epistemic value of instruments. In his book (Baird [2004]), Baird insists that in many instances of scientific development scientific instruments play an explanatory or justificatory role and proposes that such instruments should be regarded as “thing knowledge”. This presentation aims to examine the possibility of the notion of thing knowledge and to present a better understanding about what is thing knowledge.

Thing knowledge is not ordinary type of knowledge known as justified true belief. It is embodied as material things within our circumstances. To present the substitutive concept for “truth” and “justification” in the case of propositional knowledge, Baird focuses on function of instruments and gives five ideal values (detachment, efficacy, longevity, objectivity, connection) that are fulfilled by well-functioning instruments. According to his idea, when instrument can meet the ideal values and connect a certain input to another certain output in reliable way, in other words when instrument can embody a certain phenomenon by its stable function, the instrument embodies objective knowledge. In this case, depending on the stable phenomenon productive power of instrument, we can use it as thing knowledge without theoretical-subjective understanding about the phenomenon.

Although I agree that non-propositional material instruments can constitute knowledge, I think there are two debatable points in Baird’s functional approach. (1) In his criteria, whatever realizes stable functional relation, such as cars, anchors and cobwebs, seems to be count as thing knowledge. (2) While to grasp the nature of instruments by function is suitable for the accounts of objectivity or theory-freeness, the emphasis on function hides another important aspect of instruments i.e. matter or material aspect. By comparing the stability of thing knowledge from functional view with from material view, I consider these problems and give a framework to understand how and when material things become knowledge.
Rembrandt's Aesthetic Technology: The Range of Pictorialization of Emotions in the Passion Series (Alte Pinakothek, Munich)
Akihiro Ozaki (Tohoku University, Japan)

While small in scale, Rembrandt's Artist in His Studio (Museum of Fine Arts, Boston) is a very strange painting. Even though the painter is standing in front of his painting panel, there is a greater distance between painter and panel than would have existed in real life, and the panel is shown in greater than life-size emphasis. And, there is nothing in this painting to indicate to the viewer what is depicted on the panel. Close examination reveals that this is a still life which was painted on the back of the panel.

The eminent Rembrandt scholar Kurt Bauch has indicated that “vision” is shown symbolically in this painting, while Ernst van de Wetering of the Rembrandt Research Project has indicated that Rembrandt’s production method involved the painter first conceiving of his entire composition before starting work on it. These comments and others indicate that the majority of scholars agree that this self-portrait was not painted to convey the actual appearance of his studio, but rather to express Rembrandt’s art production-related aesthetics.

The image of a painter standing in front of an easel evokes an image of the painter standing in front of a mirror. Rembrandt’s pupil Samuel van Hoogstraten conveyed his teacher’s famous comment, “the same benefit can be derived from the depiction of your own passions, at best in front of a mirror, where you are stimulataneously the performer and the beholder” in his book, Inleyding tot de Hooge Schoole der Schilderkonst (1678). It was only Rembrandt in 17th century Holland who repeatedly, and indeed obstinately, expressed the emotions on his own face in his paintings. The pictorialization of emotion was a core element of Rembrandt’s arts. In the Boston painting, regardless of the fact that it is the size of the panel that is emphasized, what we see is its back surface, with its front surface hidden. Further, the light and shade shown in this work is not the Caravaggiesque light/shadow contrast then so popular throughout Europe, but rather as indicated by Bob van den Boogert, former Rembrandt House Museum curator, the contrast between light and shadow is diminished into graduated tones. These graduated tones not only hint at the expanse of space, they also evoke an emotion as the eye travels across the space that would be hard to call “feeling.” In other words, what Rembrandt is showing through his emphasis of the back of the panel is not that which is seen itself, but rather attempting to show the invisible through “emotion.” This was a new technique for “absorpting” the viewer in the work. Let us now consider the issue that can be called Rembrandt’s “spectacle” in terms of his Passion of Christ series.
Bodily Creativity: On a Possibility for Art in the Time of Technology
Eric Fongaro (Tohoku University)

The relation between art and techniques is at the center of the works of the Italian scholar of aesthetics Dino Formaggio (1914–2008). Coming from a tendency of Italian XXth century aesthetics alternative to the neo-idealistic one of Benedetto Croce (1866–1952) or Giovanni Gentile (1875–1944), Formaggio distinguishes “aestheticity” (esteticità) from “artisticity” (artisticità) and tries to approach the question of “creativity” in the context of several kinds of productive activities. His research leads him to focus on the role of “body” in human production, highlighting the possibility to find creativity not against, but inside the everyday work of people, even if strongly characterized from a technological feature.

It is worthy of attention, that some pupils of Formaggio, in particular G. Pasqualotto (1946) at the University of Padua, felt the necessity to prolong the quest on body until meeting Oriental thought. In this sense, the role of Japanese thinker Nishida Kitarō (1870–1945) seems to be very significant, particularly his thoughts on aesthetics and artistic activity. Basing on the traditional Japanese view of art (geidō), Nishida engages on aesthetics with some Western philosophers and thinkers, especially K. Fiedler (1841–1895) and W. Worringer (1881–1965). Nishida’s approach to aesthetics puts the role of body at the center, arriving to rethink the traditional Western distinction of poiesis and praxis and to create the peculiar concept of “technological body”.

Both in the case of Italian scholars of aesthetics and in the case of Nishida, an intercultural approach seems to be unavoidable in order to think in a globalized time, and creative bodily experience could be a point where art can find a possibility to be significant and subversive in a time of technological homogenisation.
Colonial Wars Made New: Innovative Mobility Technologies and Power Projection after 1900

Prof. Dr. Kurt Möser, KIT, Institute of History

It is common knowledge that new weapons systems introduced in the second half of the 19th century systems had an impact on colonial warfare. But research has shown that the efficiency and impact of repeater rifles, quick firing artillery and machine guns was probably smaller than estimated, as conflicts in Afghanistan and South Africa would suggest. Thus, fighting was less unsymmetrical than expected and/or communicated.

On the other hand, the mobility revolution after 1880 provided new means for fighting colonial wars more efficiently, supporting the somewhat increasing skepticism and reluctance of colonial powers to put “boots on the ground”. New mobility machines were pressed by pioneering military intellectuals into service in order to facilitate power projection and to re-establish Western technological superiority, in some cases launching a “revolution in military affairs” (RMA). This laid the foundation for a ‘game changing’ of colonial warfare. I propose two case studies:

- Italian employment of airplanes for bombing in Tripolitania in 1911, an application leading to the concept and practice of Colonial “Air Control” after 1919;
- the introduction of machine-gun carrying automobiles by the French army after 1905 which evolved into the widespread use of fast armoured cars in the Great War and after.

Thus, after 1918 a new approach to technology based power projection methods and procedures was started with which the victorious powers expected to facilitate their colonial rule in more economical and socially accepted ways. This approach threw a long shadow even on the “small wars” of today.
Humanities and Social Sciences
Technology, Culture, and Society

Harald Fuess, Heidelberg University
Hiltraud Casper-Hehne, Göttingen University
Alexandra Hausstein, Karlsruhe University
Takashi Sugiyama, Kyoto University
Kotaro Yoshida, Osaka University
Akihiro Ozaki, Tohoku University

Working Group Diskussions, Karlsruhe, 30 September 2016

Session I Technology, Risk, Morality after Fukushima (Chair: Hausstein, KIT)
- NAOE (Tohoku) Acceptable Risk and Responsibility
- HARA (Tohoku) Science and Morality – Risk Communication after the Nuclear Disaster in Fukushima
- WULF (KIT) Responsibility across generations – The German approach to nuclear waste disposal

Session II History and Philosophy of Technology (Chair: Lessmüllmann, KIT)
- NIHEI (Tohoku) Stability and Normativity of Thing Knowledge
- POPPLOW (KIT) Did “culture” make the difference? Felix Wankel’s rotary engine in Germany and Japan (1959-2012)
- FONGARO (Tohoku) Bodily Creativity: On a Possibility for Art in the Time of Technology

Session III Technology, Art, and Literature (Chair: Sugiyama, Kyoto)
- OZAKI (Tohoku): Rembrandt’s Aesthetic Technology
- AROKAY (Heidelberg): Digital Cartography of Literary Places

Session Plans for HeKKSaGOn in Osaka, April 2018 (Chair: Fuess, Heidelberg)
- YOSHIDA (Osaka), FUESS (Heidelberg)
2018 Events around a HeKKSaGOn Meeting at Osaka University

1. Meeting Theme: Transcultural Identities
2. Preconference: Meiji Japan in Global History
3. Graduate Student Workshop (with languages crossed-over)
Work Group Meeting IV
Disaster Risk & Response: Scientific & Technological Issues – Disaster Science and its role for global safety

Chair: Prof. Fumihiko Imamura, Tohoku University
Co-Chair: Prof. Junji Kato, Tohoku University,
           Prof. Anawat SUPPASRI, Tohoku University

Program

Shunichi Koshimura (Tohoku University IRIDES): Advances of real-time simulation, remote sensing, and geo-informatics in assessing tsunami impact

Hiroshi Kawase (Kyoto University, DPRI): The heavy damage concentration in Mashiki Town during the 2016 Kumamoto earthquake: what can be explained and what cannot

Melanie Eckle and Benjamin Hertfort (Heidelberg University): The HEIKA project on Hotel Resilience

Melanie Eckle and Benjamin Hertfort (Heidelberg University): Geoinformatics in disaster mapping and disaster management

Michael Kunz (KIT, CEDIM): Forensic Disaster Analysis

Andre Dittrich (KIT, CEDIM): Using Social Media for Rapid Damage Assessment

Andreas Schäfer (KIT, CEDIM): Global Tsunami Risk Modelling
Work Group Meeting IV
Disaster Risk & Response: Scientific & Technological Issues – Disaster Science and its role for global safety

HeKKSaGOn – The German-Japanese University Network

5th Japanese–German University Presidents’ Conference
Fostering Student Mobility to shape tomorrow’s Researchers and Innovators

Shunichi Koshimura (Tohoku University IRIDES):
Advances of real-time simulation, remote sensing, and geo-informatics in assessing tsunami impact

Hiroshi Kawase (Kyoto University, DPRI):
Title The heavy damage concentration in Mashiki Town during the 2016 Kumamoto earthquake: what can be explained and what cannot,

Benjamin Herfort (Heidelberg University), Farnaz Mahdavian (KIT):
The HEKA project on Tourism Destination Recovery

Melanie Eckle and Benjamin Herfort (Heidelberg University):
Geoinformatics in disaster mapping and disaster management

Michael Kunz (KIT, CEDIM):
Near Real-Time Forensic Disaster Analysis

Andre Dittrich (KIT, CEDIM):
Using Social Media for Rapid Damage Assessment

Andreas Schäfer (KIT, CEDIM):
Global Tsunami Risk Modelling
Analysis of institutional capacity:
Japan: IRIDES, DPRI in Sendai and Kyoto covering all aspects of disaster risk
Germany: more scattered, CEDIM at KIT, GIScience (HD) and various institutes in HD and Göttingen

Theme:
Damage from large natural disaster impact
on different time scales: predictive, real-time, post event
recovery monitoring
for different perils: earthquake/tsunami, typhoons, floods, hail, ...
With various approaches: physical modelling, engineering assessment, remote sensing, crowd sourcing, vulnerability based, economical

Action:
2 responsible persons for the next 6 months:
Shunichi Koshimura (Tohoku University IRIDES):
Friedemann Wenzel (KIT)

Organize
visits of Prof. Koshimura in HD, KIT
identify more of the research community in the HeKKSaGOn units
identify options for bilateral cooperation (papers, application)
identify options for workshops, summer schools,
identify existing frameworks: UN Outer Space Affairs Bonn, GADRI

Draft plan of action for 2017 and 2018 with specific objectives and projected outcomes.
Work Group Meeting V
Dynamic Imaging for Physical, Chemical & Biological Interests

Chair: Prof. Dr. Kiyoshi Ueda, Tohoku University
Co-Chair: Prof. Dr. Lorenz S. Cederbaum, Heidelberg University

Program

9:00–9:05 Kiyoshi Ueda (Tohoku)
“Opening”

9:05–9:35 Kazuto Yamauchi (Osaka)
“Current status and challenges of reflective optics for X-ray free-electron laser”

9:35–10:05 Simone Techert (Göttingen)
“Ultrafast dynamics of absolutely determined structures – progress report”

10:05–10:35 Kiyonobu Nagaya (Kyoto)
“Tracing of ultrafast dynamics of nano-scale system at SACLA”

10:35–11:05 Alexander Kuleff (Heidelberg)
“Ultrafast charge migration after core ionization of molecules”

11:05–11:35 Hironobu Fukuzawa (Tohoku)
“Charged particle spectroscopy of clusters and its time-resolved measurements using FELs”

11:35–11:55 Discussions

11:55–12:00 Lorentz S. Cederbaum (Heidelberg)
“Summary”
HeKKSAGOn Working Group V

*Dynamic imaging for Physical, Chemical, and Biological Interests*

*Report on 2016 KIT HeKKSAGOn Group V meeting*

**Coordinators:**
U. Heidelberg & Tohoku U.
Lorenz Cederbaum & Kiyoshi Ueda

**Outline**
Our WG focuses on studying ultrafast electron and structure dynamics in the systems of physical, chemical and biological interests and discusses also new developments of experimental techniques at the x-ray free electron lasers (XFEL) as well as relevant theoretical developments.

**Objective**
Via HeKKSAGOn we seek for, establish, expand and enforce the new or existing collaborations between Germany and Japan on the subject of our common interest i.e. ultrafast dynamic imaging.
We aim at joint scientific publications.

**To accomplish our objective**
We always have pre- and/or post-conference discussion meetings besides a half-day WG meeting within HeKKSAGOn conference. This time we had every intensive one full day meeting (13 talks + discussions) on Wednesday 28 September in Heidelberg.
HeKKSAGOn Pre-meeting in Heidelberg – Sept 28

9:00-9:25  Takashi Hirano, Osaka University: "Performance of a split-and-delay optics at SACLA (in Japan)" - student
9:25-9:50  Rebecca Boll, DESY: "Molecular charge transfer dynamics initiated by intense X-ray pulses" – junior researcher (experiment at LCLS in USA)
9:50-10:10 Tsukasa Takanashi, Tohoku University: "Time-Resolved Measurements for XFEL-induced Dynamics of Diiodomethane Molecule by NIR Laser Probe" – student (experiment at SACLA in Japan)
10:10-10:40 break
10:40-11:10 Christian Ott, MPI Nuclear Physics: "High intensity XUV transient absorption at FLASH (in Germany)" – junior researcher
11:10-11:40 Georg Schmid, MPI Nuclear Physics: "New results from REMI at FLASH (in Germany)" – junior researcher
11:40-12:05 Hironobu Fukuzawa, Tohoku University: "Auger decay induced ICD in rare-gas clusters" – Mid carrier (experiment at SPring-8 in Japan)

13:40-14.10  Kirill Gokhberg, Heidelberg University: “X-ray induced electronic decay cascades in medium” – Mid-carrier (Theory)
14:10-14:40 Nikolai Kryzhevoi, Heidelberg University: “Intermolecular electronic relaxation in X-ray irradiated liquid water and aqueous solutions” – Mid-carrier (Theory)
14:40-15:05 Zhen Yin, DESY—MPIbpc-Göttingen U: “Soft X-ray Spectroscopy on Water and Solutions (Chem.)” – Student (experiment at PETRA III in Germany)
15:05-15:25 Kiyonobu Nagaya, Kyoto University: "Femtosecond time-resolved observation of nanoplasma formation (at SACLA in Japan)“ Junior
15:25-15:55 break-
15:55-16:15  Thomas Pfeifer, MPI Nuclear Physics: "Imaging of C_{60} dynamics at LCLS” – Senior (experiment at LCLS in USA)
16:15-16:40 Kiyoshi Ueda, Tohoku University "Attosecond coherent control with multicolor fully coherent FEL pulses“ (experiment at FERMI in Italy)
16:40-17:05 Ilme Schlichting: MPI Med. Research: “X-ray pump probe on biomolecules” – Senior (experiment at LCLS in USA)
17:05-18:00  free discussions on radiation damage in the FEL dynamic imaging experiments at the atomic and electronic levels
HeKKSAGOn WG V meeting – Sept 30

9:00-9:05 Kiyoshi Ueda (Tohoku) “Opening”

I. X-ray optics
9:05-9:35 Kazuto Yamauchi (Osaka) “Current status and challenges of reflective optics for X-ray free-electron laser”

II. Chemistry
9:35-10:05 Simone Techert (Göttingen) “Ultrafast dynamics of absolutely determined structures - progress report”

III. Electron dynamics
10:05-10:35 Kiyonobu Nagaya (Kyoto) “Tracing of ultrafast dynamics of nano-scale system at SACLA”
10:35-11:05 Alexander Kuleff (Heidelberg) “Ultrafast charge migration after core ionization of molecules”
11:05-11:35 Hironobu Fukuzawa (Tohoku) “Charged particle spectroscopy of clusters and its time-resolved measurements using FELs”

IV. Discussion and summary
11:35-11:55 Discussions
11:55-12:00 Lorentz S. Cederbaum (Heidelberg) “Summary”

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**Summary**

Scanning X-ray microscopy, X-ray non-linear optics

Detectors of ions, electrons, X-rays, 

**XFEL (LCLS, SACLA)**
Upgraded 3rd generation SR

**Coherent X-ray Diffraction Imaging**

**Incoherent X-ray imaging**

Sub-10nm focusing hard X-rays of SP-8
1μm focusing of SACLA
50nm focusing of SACLA
Sub-10nm focusing of SACLA

Sub-50nm resolution, full field, and achromatic optics was realized as monolithic AKB mirrors
Compact optics using Wolter III

X-ray CCD
HeKKSAGOn WG V meeting – Sept 30

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11:35-11:55 Discussions
11:55-12:00 Lorentz S. Cederbaum (Heidelberg)
“Summary”,

trans azobenzene

 cis azobenzene

0.3 ps
12 ps (2 ps)

Structure of the transient states should be determined at e.g. SACLA

(1) |E2> (9)
(2) |E3> (8)
(3) |G> (7)
(4) |E4> (6)
(5) |E5> (5)
(6) |E6> (4)
(7) |E7> (3)
(8) |E8> (2)
(9) |E9> (1)
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IV. Discussion and summary
11:35-11:55 Discussions
11:55-12:00 Lorentz S. Cederbaum (Heidelberg) “Summary”

Interaction between XFEL and molecule including heavy atoms

Target molecule for this study

©Diiodomethane (CH₂I₂)

XFEL (5.5keV)

Revealing Coulomb explosion dynamics using theoretical simulation & Real-time observation of XFEL induced decay processes using probe NIR laser
HeKKSAGOn WG V meeting – Sept 30

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Electron dynamics after N1s ionization

HeKKSAGOn WG V meeting – Sept 30

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11:35-11:55 Discussions
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Outcome from Cooperation 1 (electron dynamics) in 2015-2016

Example 2

Time-resolved observation of the interatomic Coulombic decay induced by two-photon double excitation in Ne₂


Tohoku U., Kyoto U., Heidelberg U.

Heidelberg group theoretically predicted the titled process at the Kyoto meeting (2012). Tohoku and Kyoto groups made a beam time proposal for FERMI, FEL in Italy. We run the experiment in April 2014. We discussed the results in Sendai meeting (2015) and made a joint paper. In this work, two students, Tsukasa from Tohoku and Nicolai from Heidelberg, played a main role, communicating directly each other.
Summary of WG V meeting and preconference meeting

There are by now fully blooming collaborations!

1. **on ultrafast energy and electron transfer**
   6 papers submitted last year; two accepted and others under review. We discussed two new results from Spring-8 and SACLA, aiming at preparing two papers, and also a new beam time proposal aiming at FLASH in Germany.

2. **on the imaging of physical samples by FEL**
   We discussed the current status of the data analysis for the experiment done at LCLS in USA.

3. **on visualizing chemical reactions by FEL**
   3 papers published last year. We identified the next target and discussed about the beam time proposal aiming at SACLA in Japan.

4. **on the imaging of biological samples by FEL**
   We discussed about unavoidable radiation damage in the FEL imaging experiments and agreed to make joint efforts to solve this critical issue.
Work Group Meeting VI
Robotics: Challenges & Opportunities in the 21st Century

Chair: Prof. Tamim Asfour, KIT
Co-Chair: Prof. Kazuhiro Kosuge, Tohoku University

Program

9:00 Welcome at KIT, Prof. Tamim Asfour
9:10: Presentations of the robotics activities and new developments at the different universities (each 10 minutes)
11:00: Discussion on new trends on robotics in Germany and Japan
11:30 Plans for future joint activities
12:00 End
WG VI: Robotics
Challenges & Opportunities in the 21st Century

Tamim Asfour, KIT
Karlsruhe
29-30 September 2016

Past Activities

• International workshop “Robotics in the 21st century: Challenges and Promises”; Volpriehausen (near Göttingen) Germany

• The First International Symposium on “Swarm Behavior and Bio-Inspired Robotics”, Kyoto, Japan, 2015

• Joint workshop on “Embodied sensorimotor interaction: from locomotion to collective behavior”, Kyoto, Japan, 2015

• Several student exchange
  • Tohoku University Engineering Summer Programme (TESP)
  • Kyoto Winter School “From Materials to Life: Multidisciplinary Challenges”
  • 3 month student exchange between Kyoto and KIT
What’s next?

- Second edition of the international workshop on “Robotics in the 21st century” (International Robotics Summit, Karlsruhe area)
- Second International Symposium on “Swarm Behavior and Bio-Inspired Robotics”, Kyoto, Japan, 2017
- Tohoku University Engineering Summer Program (TESP 2017)
- Scientific exchange and collaboration in different areas
  - KIT and Tohoku: assistive robotics and rescue robotics
  - Tohoku and Heidelberg: assistive robotics
  - KIT and Osaka: humanoid grasping and manipulation in industrial environments, developmental and cognitive robotics
  - Kyoto and Göttingen: biologically-inspired robot locomotion
  - Kyoto and Heidelberg: swarm robotics

What’s next?

- Joint research projects (with funding)
  - EU-Japan Joint calls
  - DFG/DAAD/JSPS/JST

- Collaboration with other existing networks

- Prof. Florentin Wörgötter (Göttingen) on Sabbatical at Kyoto University (April 2017 – October 2017)
Thanks for your attention
Work Group Meeting VII
Japanese-German Neuroscience Research Network Focusing on Psychosis, Affective Disorders and Related Traits

Chair: PD. Dr. Stephanie Witt, Heidelberg University
Co-Chair: Prof. Hiroaki Tomita, Tohoku University

Program

9:00h-9:10h Introduction
Stephanie Witt, Hiroaki Tomita

9:10h-9:40h Neuroinflammation and mental disorders
Hiroaki Tomita (Tohoku University, Japan)

9:40h-10:10h Aberrant Resting State Functional Connectivity In Mental Disorders
Masanori Isobe (Kyoto University, Japan)

10:10h-10:40h Epigenetic Effects of Early Life Stress: A Convergent Approach
Stephanie Witt (University Heidelberg, Germany)

10:40h-10:50h Break

10:50h-11:20h Polygenic burden analyses of disease trajectories of major psychoses.
Heike Anderson-Schmidt (Göttingen University, Germany)

11:20h-11:50h Ambulatory assessment as a means of longitudinal phenotypes characterization in psychiatric disorders
Ulrich W. Ebner-Priemer (KIT, Germany)

11:50h-12:00h General discussion
Japanese-German Neuroscience Research Network focussing on Psychosis, Affective Disorder, and Related Traits
Participants 2016

Hiroaki Tomita, Tohoku University
Masanori Isobe, Kyoto University
Ulrich Ebner-Priemer, KIT
Heike Anderson-Schmidt, Göttingen University
Stephanie Witt, Heidelberg University
Thomas Schulze, Göttingen University

Research Aims

- Diagnostic
- Individual therapy
- Early identification of persons at risk
- Prevention

Risikfactors / protective Factors

Understanding
Translation
Biological Mechanisms
Etiology

Risikfactors / protective Factors

Translation
Mental Health Assessment and Support System in Tohoku Medical Megabank Organization (Miyagi Prefecture)

Residents Cohort (N=50,000) → Evaluation of depression and PTSR

Three-Generation Cohort
Adult (N=45,000), Children (N=25,000) → Evaluation of depression and PTSR

The Mini-International Neuropsychiatric Interview (M.I.N.I.)

Integrated with clinical information, information regarding environment, lifestyle, nutrition science, blood examination, physiological examination, imaging data, genome data, metabolome data, proteom data

Postpartum Depression Study Design (n = 20,000)

Enrollment → Delivery

Depression Scale (CES-D・K6)
PTSR indicators

Postpartum Depression Scale (EPDS)

Plasma, Saliva

High EPDS group
vs
Low EPDS group

Metabolomics

Inflammation markers
Sex hormones

Animal Studies

Biomarker catalog to predict Postpartum Depression
Argorythms to predict Postpartum Depression (Deep machine learning)
Epigenetic Analysis of Early Life Stress

Analysis of Extreme Groups of Stressed and non-stressed newborns

Convergent Approach

Animal data
- U6
- PDE4DIP
- ADARB2
- MORC1
- 7SK
- PRMT5
- CSRNP3

Gene-set based GWAS analysis
- MORC1

Individual genes supported by

Nieratschker et al., Translational Psychiatry 2014

Functional Connectivity in Psychiatric Diseases

- We examined aberrant organization of large scale networks detected in resting state fMRI among Schizophrenia and Anorexia.
- We found the characteristic which is original to each disease and common across diseases.
- The results wait for replication and development of analysis. (with help of HeKKSaGON)

(2014 Nekovarova et al, Frontiers in Behavioral Neuroscience)
The method: Ambulatory Assessment

**Definition** The use of computer-assisted methodology to assess self-reports, behaviors and physiological processes, while the participant undergoes normal daily activities.

**Related terms**
- Ambulatory Monitoring
- Ecological Momentary Assessment
- Experience Sampling Method

**Key features**
real-time, real-life, within-subject processes, multimodal


GPS-triggered e-diaries

- Location is tracked via GPS
- Changes in location are traced on environmental components maps.
- Significant changes on these maps trigger the e-diary in real-time in participants’ everyday life.

Dorn et al., 2015
Collaborations

- Tohoku – Osaka – Göttingen – HD
  Biomarker for Lithium Response

- Kyoto, Osaka, Tohoku, HD
  Imaging Genetics

- Tohoku, HD
  Postpartum Depression

- Tohoku, HD
  Early life stress

- KIT, Tohoku, Kyoto, HD
  Ambulatory Assessment
Work Group Meeting VIII
Mathematics at the Interface of Science and Technology towards Innovation – Seeds in Mathematics versus Needs outside Mathematics

Chair: Prof. Dr. Wilderich Tuschmann, Karlsruhe Institute of Technology
Co-Chair: Prof. Dr. Takashi Suzuki, Osaka University

Program

Chair: Tuschmann, Co-Chair: Suzuki

09:00 – 09:10 Welcome and Introduction by W. Tuschmann and T. Suzuki

09:10 – 09:30 Takashi Shioya, Tohoku:
“Metric measure geometry and concentration of measure”

09:35 – 09:55 Anna Marciniak-Czochra, Heidelberg:
“Mathematical models to understand cancer evolution”

10:00 – 10:20 Tsuyoshi Kato, Kyoto:
“Tropical geometry and its applications”

10:25 – 10:45 Stephan Huckemann, Göttingen:
“On Synthetic Fingerprint Generation”

10:50 – 11:10 Seiya Kuno, Osaka:
“Theoretical Structure and Algorithm of Volatility Index Japan”

11:15 – 11:35 Fernando Galaz-Garcia, Karlsruhe:
“Metric spaces with curvature bounded below and topological data analysis”

11:40 – 12:15 Further discussion of joint future events and collaborations
Mathematics at the Interface of Science and Technology towards Innovation

Seeds in Mathematics versus Needs outside Mathematics

exchange of students
joint work
extend participants and new fields

2017 Spring School: March 06 – 10
MMDS (Center for Mathematical Modelling and Data Science)
Osaka University

Analysis
partial differential equations
mathematical modeling

Heidelberg
Tohoku
Osaka

Statistics
Gottingen

Data Science
Heidelberg
Tohoku
Osaka

Geometry
Metric measure space
Alexandrov spaces
Gromov theory

Tohoku
Kyoto
Osaka
Karlsruhe
Heidelberg
Karlsruhe

optimal mass transport
clonal selection

biological objects

cancer evolution

cell deformation
angiogenesis
tissue evolution
stem cells

finger prints
signal transmission
image enhancement
bio-mechanics

singualr points
non-conformality
tropical geometry
automaton

Kyoto
Work Group Meeting IX
Data Science

Date and Time: Friday, September 29th and 30th, 2016 9:00 a.m. – 12:00 noon
Chair: Prof. Dr. Ramin Yahyapour, University of Göttingen

Talks:

- “Multi-Modal and Multi-Dimensional Data in Time, Space and for Data Journalism”
  Erik Bründermann, Institute for Beam Physics and Technology (IBPT), Karlsruhe Institute of Technology (KIT) and and Shizuoka University, Hamamatsu, Japan

- “Open Access to Data for open Science”
  Takashi Hikihara, Professor, Director General of Library Network, Kyoto University

- “Research Data Alliance”
  Rainer Stotzka, IPE, Karlsruhe Institute of Technology (KIT)

- “Enabling Data-Intensive Science”,
  Achim Streit, SCC, Karlsruhe Institute of Technology (KIT)

- “Launching Open Data and Research Data Management in Kyoto”,
  Takaaki Aoki, Academic Center for Computing and Media Studies, Kyoto University

- “Research Data Management and Service Infrastructures at Univ. Goettingen”
  Ramin Yahyapour, GWDG, Universitüt Göttingen

Overview

The fast adoption of advanced technologies by research communities enables new ways for generating, processing, structuring, and collaborative use of data. This has not only significant impact on the amount of data produced, but also on the variety of data formats and the velocity of data generation and handling. Consequently, scientists and research organisations have to cope with organizational challenges to manage data effectively and efficiently to support excellent research. Furthermore the focus of information infrastructures shifts towards collaborations, which accelerate the development of decentralized, globally distributed data repositories and likewise distributed data analysis.
In essence, data has become a major research asset. Although this is well known to research institutions and communities, many struggle with meeting the growing requirements regarding methodologies, knowledge, and infrastructures. The implementation of data management policies is a prominent example. Many institutions specify such policies, but the execution remains challenging, and is, consequently, not well understood or implemented. This pertains, inter alia, to the realisation of data management plans, to the reliable long-term archiving of data, or to the reproducibility of data. It is therefore essential for research organisations to address these challenges and define a concept that incorporates scientific requirements and strategic demands. This includes method development, infrastructure and skill training.

A collaboration in HeKKSaGoN could consider the following aspects:

- Strategies for research data management at universities
- Methods for data management and analytics
- Research infrastructures for data management and analytics, e.g. in data-intensive computing or storage services for large scientific data
- Teaching and training on data science related topics
- Security, data privacy, legal and ethical questions
First Workshop
Working Group IX – “Data Science”

5th Japanese – German University Presidents’ Conference
September 30th, 2016 Karlsruhe Institute of Technology

Prof. Dr. Ramin Yahyapour
University of Göttingen

Background
• Presentation of the topic „Data Science“ at HeKKSaGoN meeting in Sendai, April 2015
• Topic selected by presidents for workshop
• First workshop in Karlsruhe with 10 participants

Objective:
• Identify common interest
• Define fields of future collaboration
• Establish follow-up activities after conference
Agenda

• “Multi-Modal and Multi-Dimensional Data in Time, Space and for Data Journalism”
  Erik Bründermann, Institute for Beam Physics and Technology (IBPT), Karlsruhe Institute of Technology (KIT) and Shizuoka University, Hamamatsu, Japan

• “Open Access to Data for Open Science”
  Takashi Hikihara, Professor, Director General of Library Network, Kyoto University

• “Enabling Data-Intensive Science”,
  Achim Streit, SCC, Karlsruhe Institute of Technology (KIT)

• “Institutional strategy for developing data science on the Göttingen Campus”
  Ramin Yahyapour, GWDG, University Göttingen

• “Launching Open Data and Research Data Management in Kyoto”,
  Takaaki Aoki, Academic Center for Computing and Media Studies, Kyoto University

• “Research Data Alliance”
  Rainer Stotzka, IPE, Karlsruhe Institute of Technology (KIT)

• “Data Management and Data Science in Heidelberg”,
  Vincent Heuveline, IWR, University Heidelberg

Open Access to Open Data and Open Science

• Joint strategic topic in Japan and Germany
• Changing the way of research and development
• Greater collaboration necessary, requires broad range of stakeholders
• Open access policy effective at HeKKSaGOn universities
• Fostering open access through institutional measures
• Requires solution e.g. for repositories and metadata, but also processes and incentives for researchers
Application-oriented Data Science

• Translating application/domain-specific requirements to data solutions
• Enabling re-use and wider access
• Identifying common pipelines and infrastructure services
• Organizational structures to establish data science-related support, consulting and research labs
• Strong collaboration between libraries and compute centres
• Cloud services are relevant technology

Interoperability and Standards

• Research is done in collaboration
• Diversity is given, but common standards help in re-usability and exchange of data
• Supporting different scientific communities requires interoperability through common practices
• Common challenges:
  • Community building
  • Meta-Data
  • Technical aspects in maintain suitable infrastructure services
• Example: Research Data Alliance as an existing international body
Teaching in Data Science and Research Data Management

- Different approaches at the universities to include the topic in the curricula
  - Under-graduate level
  - Graduate level
  - Supplemental courses to existing curricula
- Topic is cross-disciplinary which is a challenge to address appropriately
- Exchange of experiences and maybe content considered useful

Mission Statement

*How to support research that increasingly relies on data science in order to transcend disciplinary, methodological and geographical boundaries for open science?*
Next Steps

- Follow-up videoconferences
- Preparation of summer school in 2017
- In the mid-term staff and researcher exchange on research data management
- Collaboration on teaching
  - Course development
  - Joint modules, Visiting lecturers
- Include additional participants from the HeKKSaGOn partners in the working group

Thank you!
1st Japanese-German HeKKSaGOn Students’ Workshop
**Thursday, September 29th**

1st Japanese-German HeKKSaGoN Students’ Workshop

“Bridging Cultures through Mobility in Research, Higher Education and Innovation” – Part I Discussion

Building 10.11, Room 111.1/111.2, Kaiserstraße 12

Chair: Pascale Kohler, Director Regional Strategy & Information, KIT International Affairs

- **9:00 a.m. – 9:30 a.m.**
  Welcome and introduction of participants
  Prof. Dr. Alexander Wanner,
  Vice President for Higher Education and Academic Affairs, KIT

- **9:30 a.m. – 10:00 a.m.**
  Introduction of HeKKSaGoN Activities
  Pascale Kohler,
  Director Regional Strategy and Information, KIT

- **10:00 a.m. – 11:30 a.m.**
  Discussion “Bridging Cultures through Mobility in Research, Higher Education and Innovation”
  - Which added-value could HeKKSaGoN provide to students and young researchers?
  - Which incentives should/could HeKKSaGoN provide to students?
  - How does international experience contribute to the development of students and young researchers?
  - How should universities promote international cooperation to students and young researchers?

- **11:30 a.m. – 12:00 noon**
  Wrap-up and outlook
Friday, September 30th

1st Japanese-German HeKKSaGOn Students’ Workshop

“Bridging Cultures through Mobility in Research, Higher Education and Innovation” – Part II Preparation of Presentation

Building 10.11, Room 111.1/111.2, Kaiserstraße 12

9:00 a.m. – 9:30 a.m.  Good-morning warm-up and summary from first day’s discussion

9:30 a.m. – 11:30 a.m.  Preparation of Presentation for afternoon session

11:30 a.m. – 12:00 noon  Wrap-up

Participants

- Lukas Rey, Heidelberg University
- Ivana Robitzsch, Heidelberg University
- Keishun Suzuki, Kyoto University
- Toshiro Eki, Kyoto University
- Satoru Kimura, Kyoto University
- Thuy-Tien Nguyen, KIT
- Chau Nguyen, KIT
- Michael Färber, KIT
- Sarah Bertels, KIT
- Tsujasa Takanashi, Tohoku University
- Naoya Murakami, Tohoku University
- Sha Wang, University of Göttingen
- Tim Benedikt Garbers, University of Göttingen
- Lorenz Weiß, University of Göttingen
- Hirano Takashi, Osaka University
1st HeKKSaGOn Students’ Workshop

Bridging Cultures through Mobility in Research, Higher Education and Innovation
Overview

- Differences in university systems
- Communication
- Preconditions & finances
- HeKKSaGOn-Student-Network

Differences in university systems

- Credit point
- Eligibility to courses
- Application systems
Communication

- Preliminary program information
- English taught courses
- Creating a HeKKSaGOn-Buddy-program
- Transparent public evaluations on exchange programs

Preconditions & finances

- Increasing chances for scholarships
- Reduction of Japanese tuition fees
HeKKSaGOn-Student-Network
• Preparation network
• Intercultural activities & friendships
• Interdisciplinary Workshops
• Student summer/ winter schools

Questions
• Is there a chance to create HeKKSaGOn scholarships?
• Would it be possible to provide equal student status?
Participants
Heidelberg University

- Arokay, Judit
- Baba, Shinpei
- Badreddin, Essam
- Cederbaum, Lorenz
- Eckle, Melanie
- Ehrhardt, Oliver
- Eitel, Bernhard
- Enders, Markus
- Förster, Christian
- Füss, Harald
- Gerke, H. Joachim
- Gokhberg, Kirill
- Golubev, Nikolay
- Hashmi, Stephen
- Heermann, Dieter
- Herfort, Benjamin
- Heuveline, Vincent
- Ho, Anthony
- Jabbari, Ghazal
- Kryzhevoi, Nikolai
- Kuleff, Alexander
- Linke, Philipp
- Marciniak-Czochra, Anna
- Mehlhose, Sven
- Mombaur, Katja
- Rey, Lukas
- Robitzsch, Ivana
- Sleeman, Jonathan
- Stumpf, Vasili
- Tanaka, Motomu
- Wienhard, Anna
- Witt, Stephanie

Kyoto University

- Aoi, Shinya
- Aoki, Takaaki
- Eki, Toshiro
- Hikihara, Takashi
- Inaba, Kayo
- Isobe, Masanori
- Kanno, Chiyoko
- Kato, Tsuyoshi
- Katsumura, Yoshihiro
- Kawase, Hiroshi
- Kerr, Ainslie
- Kimura, Satoru
- Kitagawa, Hiroshi
- Mabuchi, Mitsumasa
- Matsuno, Fumitoshi
- Nagaya, Kiyonobu
- Sachiko, Kaji
- Sugiyama, Takashi
- Suzuki, Keishun
- Tsuruyama, Tatsuaki
- Yamagawa, Juichi

Karlsruher Institut für Technologie (KIT)

- Asfour, Tamim
- Barnstedt, Elke Luise
- Bastmeyer, Martin
- Baumgartner, Anna
- Bertels, Sarah
- Blümer, Johannes
- Böhmer, Christoph
- Böhn, Andreas
- Bräse, Stefan
- Breuer, Ulrich
- Bründemann, Erik
- Decker, Michael
- Dillmann, Rüdiger
- Dittich, André
- Ebner-Priemer, Ulrich
- Färber, Michael
- Galaz-Garcia, Fernando
- Grunwald, Armin
- Hanselka, Holger
- Haustein, Alexandra
- Hirth, Thomas
- Khazai, Bijan
- Kohler, Pascale
- Kunz, Michael
- Leßmöllmann, Annette
- Mahdavian, Farnaz
- Mexner, Wolfgang
- Moniz, Antonio
- Möser, Kurt
- Nguyen, Chau
- Nguyen, Thuy Tien
- Popplow, Marcus
- Powell, Annie
- Ruben, Mario
- Schäfer, Andreas
- Schepers, Ute
- Schmidt, Oliver
- Steinhäuser, Nora
- Stotzka, Rainer
- Streit, Achim
- Tuschmann, Wilderich
- Wanner, Alexander
- Wedlich, Doris
- Wenzel, Friedemann
- Winter, Julia
- Wöll, Christof
Participants

Tohoku University
- Fongaro, Enrico
- Fukuzawa, Hironobu
- Harada, Saku
- Hirata, Yasuhiisa
- Hirayama, Hirotaka
- Koshimura, Shunichi
- Kosuge, Kazuhiro
- Miyamoto, Hirohisa
- Murakami, Naoya
- Naoe, Kiyotaka
- Nihei, Mariko
- Ohashi, Kazumasa
- Ozaki, Akihiro
- Ozawa, Ryunosuke
- Satomi, Susumu
- Shioya, Takashi
- Takanashi, Tsujasa
- Tokuyama, Takeshi
- Tomita, Hiroaki
- Ueda, Kiyoshi
- Ueki, Toshiya
- Wagatsuma, Yasushi
- Yamashita, Masahiro
- Yonezawa, Yukako

University of Göttingen
- Anderson-Schmidt, Heike
- Beisiegel, Ulrike
- Casper-Hehne, Hiltraud
- Falkowski, Tanja
- Garbers, Tim
- Huckemann, Stephan
- Jagonak, Martin
- Schneider, Sven
- Seack, Christiane
- Techert, Simone
- Wang, Sha
- Weiß, Lorenz
- Wörgötter, Florentin
- Yahyapour, Ramin

Osaka University
- Arai, Tatsuo
- Asada, Minoru
- Harada, Kensuke
- Hase, Toshiharu
- Hirano, Takashi
- Irie, Yukio
- Ishikawa, Mayumi
- Kaga, Ryoko
- Kotaro, Yoshida
- Kuno, Seiya
- Matsumoto, Mitsuhiro
- Nishio, Shojiro
- Sumiyoshi, Kenji
- Suzuki, Takashi
- Yamanaka, Shinsuke
- Yamauchi, Kazuto

Others
- Finken, Holger (German Academic Exchange Service)
- Golk, Thomas (The Japan Foundation)
- Huber, Robert (Chamber of Commerce and Industry Karlsruhe)
- Jäger, Wolfram (First Major of the City of Karlsruhe)
- Kodaira, Keiichi (Japan Society for the Promotion of Science)
- Kränzler, Christopher (lengoo GmbH)
- Langer, Franziska (German Research Foundation)
- Takegami, Naoya (Embassy of Japan)
- Yanagi, Hidenao (Consulate General of Japan in Munich)
Impressions