



NETWORKING RESEARCH SYMPOSIUM

**Research Landscapes and Technology Transfer
in Australia and Baden-Württemberg –
Current Projects and Perspectives for Research Collaboration**

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STUTT GART, 25. NOVEMBER 2016

AS PART OF THE AUSTRALIA & NEW ZEALAND CAREER, STUDY AND RESEARCH FAIR

NETWORKING RESEARCH SYMPOSIUM

**Research Landscapes and Technology Transfer
in Australia and Baden-Württemberg -
Current Projects and Perspectives for Research Collaboration**

STUTT GART, 25. NOVEMBER 2016, 11.00 AM – 6.00 PM

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In many cases, research achievements in Australia as well as in Baden-Württemberg are the outcomes of collaborative research efforts both domestically and internationally. The Networking Research Symposium **Research Landscapes and Technology Transfer in Australia and Baden-Württemberg - Current Projects and Perspectives for Research Collaboration** will provide insight into already established and successfully working research co-operations between Australia and Baden-Württemberg. Furthermore it aims at fostering research collaborations between Australian and Southern German researchers from universities, universities of applied sciences and industry partners, by discussing possible knowledge transfer and advancement of mutual benefit to Australia and Baden-Württemberg.

BACKGROUND:

Baden-Württemberg, located in the South West of Germany, has one of the highest densities of universities and research institutions in Europe pursuing an extremely broad range of activities. Excellent and inquiring minds are engaged in basic and applied research at over 100 locations, from universities through to international and national non-university research centres, with a strong link to research-intensive companies and industry.

Baden-Württemberg has a long tradition of innovation and up until today innovation and research go hand in hand: automotive engineering, mobile sustainability, biotechnology, biological economics, life sciences, lightweight construction and innovative sciences are the core of high profile research in Baden-Württemberg.

Australia's research sector consists of a variety of universities and organisations which all have strong research tradition and have delivered excellence in research and innovation over decades. This advanced research culture and system has been and still is responsible for world-leading breakthroughs. Strong links to industry have transformed innovative university research into new products and technologies and have created a tangible change for individuals and communities.

There are 42 universities – 40 Australian and two international – and a number of government research organisations with an excellent international reputation for cutting edge research in an extremely wide range of disciplines: health and medicine, food and agriculture, cultures and communities, astronomy and space science, advanced technologies, environment, resources and energy.

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PROGRAMME:

11:00 **Welcome** (GOstralia! Research Centre, bw-i, Austrade)

11:15 **Research Landscapes and Higher Education Research Policy in Australia. New ideas in Innovation and Science.**

Dr. Hans-Jörg Stähle, International Bureau, Federal Ministry of Education and Research

11:40 **Research in Baden Württemberg. Universities and non-university research institutions**

In-Sook Choi, Regional Manager ASEAN, Japan, Korea, Australia, Department Science, Research and the Arts, BADEN-WÜRTTEMBERG INTERNATIONAL

Case Studies I

12:00 **The Australian-German Study Centre for Optofluidics and Nanophotonics (SCON) - Instigating a sustainable research partnership**

Prof. Dr.-Ing. Christian Karnutsch, University of Applied Sciences Karlsruhe, Adjunct Professor of RMIT University, Melbourne

12:25 **Interfacing Macromolecular Chemistry and Industrial Polymer Science**

Dr. Leonie Barner, Karlsruhe Institute of Technology (KIT), Principle Research Fellow, CARF and School of Chemistry, Physics and Mechanical Engineering, QUT

12:50 **Discussion**

13:00 **Lunch and Networking**

Case Studies II

14:00 **Different Applications but Similar Technologies and Same Challenges in Neural Implants**

Prof. Dr. Thomas Stieglitz, University of Freiburg, Department of Microsystems Engineering - IMTEK

14:25 **Collaboration with the University of Sydney, the CSIRO Melbourne and the Australian National University in the areas of Nanophotonics and Metamaterials**

Prof. Dr. Harald Giessen, University of Stuttgart, 4th Physics Institute, guest professor at the University of Sydney

15:00 **Panel Discussion** and wrap up with all speakers, an extended group of researchers and industry partners

15:30 **Matchmaking Forum**

Time for networking, individual meetings and cooperation talks

17:00 **Reception**

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ABSTRACTS:

Prof. Dr.-Ing. Christian Karnutsch, University of Applied Sciences Karlsruhe, Department of Electrical Engineering and Information Technology, Adjunct Professor of RMIT University, Melbourne, Australia, Director Institute for Optofluidics and Nanophotonics (IONAS), Director Australian-German Study Centre for Optofluidics and Nanophotonics (SCON)

The Australian-German Study Centre for Optofluidics and Nanophotonics (SCON) - Instigating a sustainable research partnership

Sustainable long-term collaborations are built on the back of good work, good luck, good people and good talk. This presentation will introduce the Australian-German Study Centre for Optofluidics and Nanophotonics (SCON), which shows how these four pillars can support an Australian-German research collaboration that also incorporates student and staff exchange as well as industry linkages.

Dr. Leonie Barner, Karlsruhe Institute of Technology (KIT), Principle Research Fellow, CARF and School of Chemistry, Physics and Mechanical Engineering, QUT, and Group leader, Institute for Functional Interfaces and Institute of Biological Interfaces

Interfacing Macromolecular Chemistry and Industrial Polymer Science

The presentation will highlight the importance of interfacing fundamental academic research with applicationally driven industrial research demands and highlight examples - from the realm of advanced composite materials - of successful outcome driven collaborations between Evonik Industries and a university based macromolecular research team (Prof. C. Barner-Kowollik). The presentation will additionally demonstrate how transnational research partnerships between Australian universities and European based companies function effectively.

To register for the symposium please follow the [link](#). The general registration deadline is November 11th.

For those who want to participate in the matchmaking forum please contact Dr. Michaela Krug-von Vacano (krug@gostralia.de) as soon as possible.