



Deutsch-Australische
Industrie- und Handelskammer
German-Australian Chamber
of Industry and Commerce



THE UNIVERSITY
of ADELAIDE



ENERGY EFFICIENCY INNOVATION SEMINARS 2016

ENERGY INNOVATION IN THE BUILT ENVIRONMENT: KNOWLEDGE TRANSFER FROM GERMANY

The University of Adelaide

22 November 2016

1:00pm – 5:00pm

Level 7, Ingkarni Wardli Building
University of Adelaide, SA 5005

Supported by:



on the basis of a decision
by the German Bundestag

About the Energy Efficiency Innovation Seminars

The GACIC launches a seminar series on 'energy efficiency & innovation in the built environment' in November 2016, following the successful visit of a German trade delegation in early June 2016. Accordingly, the seminar series takes up the significant topic of energy efficiency in buildings and aims at creating an interactive platform to facilitate the formation of lasting and sustainable relationships between German companies (technology innovators) and Australian academic institutions.

Three seminars will provide German technology experts in energy efficiency in buildings with the opportunity to present their technologies, applicable to the private, commercial and industrial building sectors and discuss their engagement in Australia with students, lecturers and researchers of leading Australian universities.

This seminar series is meant to further promote „energy efficiency – made in Germany“and to reinforce awareness of German technology in Australia. As future corporate decision makers, students provide for an ideal audience to foster long-term knowledge-based relationships between Australia and Germany.

About the German Energy Solutions Initiative



The German Energy Solutions Initiative brings together energy efficiency know-how and experience to countries all over the world. The initiative helps to establish contacts with German companies and experts.

Companies can benefit from a wide spectrum of services and an international network of experts. This program takes place under the framework of the German Energy Solutions Initiative, supported by the German Federal Ministry for

Economic Affairs and Energy. Find more German companies with energy efficient products at: <http://www.efficiency-from-germany.info/ENEFF/Navigation/EN/Home/home.html>

The University

Established in 1874, the University of Adelaide is Australia's third oldest university and is located in South Australia's capital city.

With an international reputation for conducting world-leading research across a wide spectrum of areas, the University is consistently ranked in the top 1% of universities worldwide and is member of the Group of Eight a coalition of Australia's foremost research intensive universities. The University constitutes a vibrant and diverse community with over 25,000 students and over 3,500 members of staff across our three main campuses.

The University of Adelaide is exclusive within Australia for its strong research and teaching groups in geology and geophysics, petroleum engineering, mining engineering and energy technology, as well as renewable energy and energy efficiency. **The Institute for Mineral and Energy Resources (IMER)** is an outstanding collaborative research institute of the University which addresses scientific, technological, environmental and social challenges. IMER's focus areas of research are Earth Sciences, Energy Technology and Resource Engineering. One of the Institute's centres is the **Centre for Energy Technology (CET)**, which delivers innovative technologies for a clean energy future.

Tuesday 22th November 2016

Venue	Level 7, Ingkarni Wardli Building University of Adelaide, SA 5005
Time	1:00 pm – 5:00 pm
Program	
1:00 pm	Lunch
1:30 pm	Welcome: tbc
1:50 pm	Prof Mohammed Ali Babar, School of Computer Science <i>Smart Cities Initiatives and Supporting Energy Management Systems</i>
2:10 pm	Mr Jonas Maasmann, Institute of Energy Systems, Energy Efficiency and Energy Economics (ie ³), Technical University of Dortmund <i>Topic of presentation tbc</i>
2:30 pm	Associate Prof Eric Hu, School of Mechanical Engineering <i>Reducing energy loads in buildings— a hybrid air conditioning system</i>
2:50 pm	German technology expert 1: Mr Jerry Argyriou Executive Director, Steinel Australia – Light Control <i>Topic of presentation tbc</i>
3:10 pm	Tea Break and Networking Opportunity

3:40 pm	Associate Prof Veronica Soebarto School of Architecture and Built Environment <i>Energy efficient design in the urban environment</i>
4:00 pm	German technology expert 2: Mr Thomas van Raamsdonk, General Manager, Pro Clima Australia Ltd <i>Topic of presentation tbc</i>
4:20 pm	Concluding Summary
4:30 pm	Tea Break and Networking Opportunity
5:00 pm	End of seminar

Welcome

Moderator

Title First Name Surname
Position
Company / University

Picture = description

website

Presenting Expert Speaker

Prof Mohammed Ali Babar School of Computer Science The University of Adelaide



M. Ali Babar is a Professor in the School of Computer Science, UoA. He is an honorary visiting Professor at the Software Institute, Nanjing University, China. He also holds an academic position at the IT University of Copenhagen, Denmark. Previously he was a Reader in Software Engineering with the School of Computing and Communication at Lancaster University, UK.

He has established an interdisciplinary research centre called CREST, Centre for Research on Engineering Software Technologies, where he directs the research and education activities in the areas of Software Systems Engineering, Security and Privacy, and Social Computing. Defence Systems and Smart Cities are two of the main areas of the applications of the CREST's research and development. Drawing upon his extensive experience of working in large-scale interdisciplinary projects in Europe, Ali Babar motivated several colleagues across the UoA to start and lead two interdisciplinary initiatives: R&DI in Smart Cities and Cyber Security CRC bid participation. Professor Babar's team has established extensive collaborative ties with Defence and Science and Technology (DST) Group and Data61 in the areas of Cyber Security and Military usage of Smart Cities.

Prof Babar has authored/co-authored more than 180 peer-reviewed research papers at premier Software journals and conferences. He obtained a Ph.D. in Computer Science and Engineering from the school of computer science and engineering of UNSW. More information on Professor Babar can be found at <http://malibabar.wordpress.com>

Presenting Guest Speaker

Mr Jonas Maasmann Institute of Energy Systems, Energy Efficiency and Energy Economics (ie³) Technical University of Dortmund



After graduating from the Technical University of Dortmund, Germany in Electrical Engineering, Jonas Maasmann became the head of the Smart Grid Technology Lab and E-mobility research group at the Institute of Energy Systems, Energy Efficiency and Energy Economics (ie³).

Through his work as a research associate, technical manager and project manager, Mr Maasmann enlarged his knowledge of Grid Integration, Smart Buildings, Renewable Energy Sources, Charging Infrastructure and Electric Vehicles.

Mr Maasmann is currently working on the initialization of a research collaboration with the goal to share technologies, knowledge and expertise between the research group Power and Energy Systems from the University of Queensland and the ie³ Institute in Dortmund. Furthermore, he is in charge of the coordination of research with the focus on Smart Grid and E-mobility technologies, including real time simulations and development of innovative distribution grid components.

The ie³ Institute is one of the leading German higher education institutes and employs more than 40 scientists. The Institute studies technical and economic problems for a reliable and sustainable electricity system of the future and covers research topics of the following areas: transmission- and distribution networks, measurement and automation systems, energy efficiency and renewable energy sources as well as electricity industry and energy economics: www.ie3.tu-dortmund.de/cms/de/Institut

Presenting Expert Speaker

Associate Prof Eric Hu
School of Mechanical Engineering
The University of Adelaide



Eric Hu was born in Beijing China in 1964. He received Bachelor of Engineering (mechanical), Zhejiang University, China, in 1984, Master of Engineering (energy technology), Beijing Normal Collage, China, in 1987 and Doctor of Engineering (energy technology), Asian Institute of Technology, Thailand, in 1992

He worked as a lecturer and senior lecturer in Thermodynamics and Fluid Mechanics at School of Engineering, Monash University from 1993 to 1999 when he joined the School of Engineering and Technology at

Deakin University. He starts with the School of Mechanical Engineering at the University of Adelaide, Australia, as Associate Professor in Sustainable Energy Engineering, in Feb 2009. He has been working in thermal energy engineering areas, including hybrid energy systems, energy efficiencies for industrial processes and buildings, solar thermal applications eg. heating, cooling and power generation, CO₂ emission reduction for power stations and low energy desalination etc. He has won over \$2.5m in research grant and published over 150 academic papers in Australia.

Presenting German Companies

Mr Jerry Argyriou
Executive Director
Steinel Australia – Light Control



From its pioneering beginnings in 1959, **STEINEL** has continued its technology and innovation leadership in sensor and lighting controls, heat-tool and hot-melt glue applicator markets.

All products are manufactured in Europe and span industrial, commercial and residential markets.

The focus is on energy efficiency, user experience, integrated controls and open systems to truly be able to deliver smart buildings and cities.

As Executive Director for Australia, Jerry works with corporate workplace execs, facilities managers, designers, architects, system integrators and engineers, designing and implementing smart buildings. With data driven decisions and the Industrial Internet, Steinel products already enable flagship IoT projects in the facilities space.

Jerry has diverse entrepreneurial, corporate and commercial experience in technology-centric companies, across multiple countries and industries.

He has facilitated well over 50 strategy and value engineering sessions with a strength for aligning people across strategy, sales, finance, risk, operations and technology.

Further product and company information is available at www.steinel.de & steinel.com.au

Presenting Expert Speaker

Associate Prof Veronica Soebarto
School of Architecture and Built Environment
The University of Adelaide



Veronica joined the University of Adelaide in 1998 after completing a Post-Doctorate Research Associate position at Texas A&M University in College Station, Texas, USA, and PhD and Master of Architecture degrees from the same university.

She is the leader of the Sustainable Built Environment research group and her research interests span from environmental performance

assessments of buildings, building performance simulation, building monitoring, human thermal comfort, to the social dimension of sustainable design.

The School of Architecture and Built Environment has demonstrated expertise in the area of low energy housing and sustainability for over twenty years, as evidenced by our numerous publications in this area.

Veronica herself has held several offices, boards and memberships and published journals, books and papers.

www.researchers.adelaide.edu.au

Presenting German Companies

Mr Thomas van Raamsdonk
General Manager
Pro Clima Australia Ltd



Thomas holds an engineering degree specialising in building physics and energy efficiency from the University of Applied Science in Rosenheim, Germany. Having worked in different jobs in several companies in Germany, Japan, Australia and New Zealand, Thomas gained extensive professional knowledge of airtightness, thermal bridging and healthy homes which has resulted in significant publications. Thomas has been the General Manager of Pro Clima Australia Pty Ltd and Pro Clima New Zealand Ltd since 2003, sharing knowledge with industry, associations and

research institutions on how building standards and systems can be vastly improved. He has featured as a keynote speaker at numerous events organized in Australia and New Zealand. Pro Clima is a leader in the field of development and manufacturing of intelligent high performance sealing systems for thermal insulation in construction. Pro Clima Australia Pty Ltd was established in 2010 after a number of years of extensive research which identified a need for high quality air and weather tightness products in Australia. Thomas is passionate about growing the business through knowledge sharing and looks forward to the opening of the PC HUB, pro clima's state of the art training facility in New Zealand in 2017. He is determined and dedicated to improving the building standards in Oceania to create a long term solution to ensure warm, dry, healthy and energy efficient living for everyone: www.proclima.com.au

Contact

German-Australian Chamber of Industry and Commerce

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The German-Australian Chamber of Industry and Commerce (AHK) was founded in 1977. Our main objective is to foster bilateral trade between Germany and Australia. We are part of a worldwide network of 120 German Chambers abroad in 80 locations.

With offices in Sydney and Melbourne we offer a broad range of services to assist companies in their initiation of business relations and market entry strategies.

We are also a membership organization and provide an extensive networking platform to currently more than 400 member companies in Australia and Germany. Our regular events include seminars, industry conferences, round tables and many more.

Our know-how combined with the expertise of our partners makes us a strong and competent partner for all your business needs.

Contact

The University of Adelaide

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