

1st TUM Research Alumni Conference

Living and Mobility in Smart Cities

August 28-29, 2017, TUM CREATE, Singapore

organized by Technische Universität München
under the auspices of the sponsorship program “Research Alumni Meetings Abroad”
administered by the Alexander von Humboldt Foundation
and funded by the German Federal Ministry of Education and Research

Context

The meeting is a constituent part of the collaborative project “International Research Marketing” which is a joint initiative by the Alexander von Humboldt Foundation, the German Academic Exchange Service, the Deutsche Forschungsgemeinschaft and the Fraunhofer-Gesellschaft. All the activities within the project are part of the “Promote Innovation and Research in Germany” initiative under its brand “Research in Germany”. The initiative is funded by the German Federal Ministry of Education and Research.

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Program

Sunday, August 27

6:00 PM **Welcome Drink** – Informal Get-together (optional)
BARTISTRY@ONE22, Mercure Singapore Bugis Hotel Bar

Monday, August 28

from

6:00 AM **Breakfast** (optional)

8:05 AM **Bus Shuttle to TUMCREATE**
Meeting Point: Hotel Lobby beside Concierge

9:00 AM **Registration**

9:15 AM **Welcome Note**
Prof. Dr. Dr. h.c. mult. Wolfgang A. Herrmann
President, Technical University of Munich

9:30 AM **Opening Speech**
Mr. Knut Zuchan
Head of Science and Technology Department
Embassy of the Federal Republic of Germany to Singapore

9:45 AM **Research Opportunities in Germany and the Role of Research Alumni**
Dr. Barbara Sheldon
Head of Strategic Planning, Alexander von Humboldt Foundation

10:00 AM **TUM Ambassadors' Talk** *Once a Guest, Forever a Friend*
Dr. Hannemor Keidel
Senior Vice President International Alliances and Alumni, Technical University of Munich
Prof. Dr. Sivaji Chakravorti
National Institute of Technology Calicut, TUM Ambassador 2013
Prof. Dr. Raman I. Sujith
Indian Institute of Technology Madras, TUM Ambassador 2014
Prof. Dr.-Ing. Mikio Horie
Tokyo Institute of Technology, TUM Ambassador 2015

10:15 AM **Photograph Session with TUM President**
Coffee Break

10:30 AM *Singapore's Smart Nation Initiative*
Mr. Vance Ng
Deputy Head, Smart Nation Programme Office, Singapore

- 11:00 AM** **Session I: Mobile Applications & Technology as Innovative Solutions**
- Solution of Temperature Conditioning in Smart Cities*
Prof. Dr. Vijay Jindal, Honorary Professor, Bio and Nano Science, Panjab University
- Polymere-made Planar and Spatial Mechanisms for One-Room-Factory in Smart Cities*
Prof. Dr.-Ing. Mikio Horie, Tokyo Institute of Technology
- Remote Monitoring of Power Equipment*
Prof. Dr. Sivaji Chakravorti, Director, National Institute of Technology Calicut
- 12:00 PM** **Networking Lunch**
- 1:00 PM** **Session II: Innovations for a Seamless Public Transport Experience**
- TBC*
Dr.-Ing. Andreas Rau, Principal Investigator, TUMCREATE LTD
- Overview of TUMCREATE: Towards the Ultimate Public Transport System*
Prof. Dr.-Ing. habil. Alois Knoll, Chair of Robotics and Embedded Systems,
Department of Informatics, Technical University of Munich
- Bettering the Spatial Planning of Public Electric Vehicle Charging Facilities: The Cases of Beijing and Hong Kong*
Dr. Sylvia Ying He, Assistant Professor, Department of Geography and
Resource Management, The Chinese University of Hong Kong
- Virtual Reality Environments as Scientific Tools for Presentation, Elaboration and Evaluation of Autonomous Vehicles for public transportation in Singapore*
Mr. Sebastian Stadler, Research Associate, TUMCREATE LTD
- Bike Sharing System: Like a Rainbow over City Sky*
Prof. Dr.-Ing. Ying Zhang, Professor, School of Transportation Engineering,
Tongji University
- Mobility Analysis of Floating Car Data*
Dr.-Ing. Linfang Ding, Researcher, Free University of Bozen
- 3:15 PM** **Coffee Break**
- 3:30 PM** **Summary of Sessions I and II**
Prof. Dr.-Ing. habil. Alois Knoll
- 3:45 PM** **Visit to TUMCREATE**
- 5:15 PM** **End of Conference Day 1**
Bus Shuttle to Mercure Singapore Bugis Hotel
- 6:25 PM** **Bus Shuttle** to Paulaner Braeuhaus Restaurant
Meeting Point: Hotel Lobby beside Concierge
- 7:00 PM** **President's Dinner**
Paulaner Braeuhaus Restaurant
- Return to hotel independently**

Tuesday, August 29

From

- 6:00 AM** **Breakfast** (optional)
- 8:35 AM** **Bus Shuttle to TUMCREATE**
(Meeting Point: Hotel Lobby beside Concierge)
- 9:15 AM** **Registration**
- 9:30 AM** **Welcome & Introduction to Conference Day 2**
Prof. Dr.-Ing. habil. Alois Knoll
- 9:45 AM** **Session III: Smart Living**
Smarter Towns, Better Living
Mr Heru Santoso Soedarsono, Deputy Director, Infocomm and Intellectual Property Hub, Housing and Development Board, Singapore
- 10:15 AM** **Coffee Break**
- 10:30 AM** **Session III: Smart Living** (cont'd)
Smart and Universal Education Environment for Life-Long Learning
Prof. Dr. Jiyou Jia, Professor, Department of Educational Technology, School of Education, Peking University
The Changing Structure of Urban Public Health
Prof. Dr. Meirong Su, Professor, School of Environment and Civil Engineering, Dongguan University of Technology
Monitoring and Management of the Mobility and ADL for the Elderly
Prof. Dr.-Ing. Houde Dai, Professor, Quanzhou Institute of Equipment Manufacturing, Haixi Institutes, Chinese Academy of Science
3D/4D City Modeling in the Context of Virtual Singapore
Prof. em. Dr. mult. Armin Gruen, Information Architecture, Department of Architecture, ETH Zürich, Technical-Scientific Project Leader of "FCL-Virtual Singapore", Singapore-ETH Centre
- 11:45 AM** **Summary of Conference**
Prof. Dr.-Ing. habil. Alois Knoll
- 12:15 AM** **Reimbursement of Travel Costs**
Networking Lunch
- 1:45 PM** **Bus Shuttle** to Land Transport Authority Singapore
- 2:30 PM** **Visit to Land Transport Authority Singapore**
- 4:00 PM** **End of Conference**
Bus Shuttle to Mercure Singapore Bugis Hotel

Dress Code

Conference Days: Business Formal

Welcome Drink & Paulaner Braeuhaus Dinner: Smart Casual

Contact person

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Important addresses

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Land Transport Authority, 181 River Valley Rd, Singapore 179034