



ADeKo 2018

“Engineering for our Future!”

Program of the 10th Joint Korean-German Conference in Aachen, Germany

Wednesday, 17.10.2018: Reception, Krönungssaal

18:00	Reception (Moderation: So-Yeon Kim)
19:00	Welcome Messages Marcel Philipp (Mayor of the City of Aachen) Hwang-Sik Kim (Chairman of ADeKo & former Prime Minister of Korea) Ulrich Rüdiger (Rector of RWTH Aachen University) Wha Sub Yoon (Mayor of the City of Ansan)
	Performance RWTH Collegium Musicum: Carbon-Quartett Gerhard Schröder (former Chancellor of Germany) Bum-Goo Jong (Korean Ambassador to Germany) Stephan Auer (German Ambassador to Korea)
20:00	MoU Ceremony: TU9 & KNU10 Performance RWTH Collegium Musicum: Carbon-Quartett Dinner & Networking

Thursday, 18.10.2018: Conference, Eurogress

8:00	Registration
9:15 – 10:30	Opening Ceremony <i>Europasaal</i> <i>Moderation: So-Yeon Kim</i> Ulrich Rüdiger (Rector of RWTH Aachen University) Hwang-Sik Kim (Chairman of ADeKo & former Prime Minister of Korea) Bum-Goo Jong (Korean Ambassador to Germany) Michelle Müntefering (Minister of State at the Federal Foreign Office, Video Message) Stephan Auer (German Ambassador to Korea) Marcel Philipp (Mayor of the City of Aachen) Susanne Burger (Federal Ministry of Education and Research) Karl-Uwe Bütöf (Ministry of Economic Affairs, Innovation, Digitalization and Energy NRW) Holger Finken (DAAD)
10:30 – 10:45	<i>Coffee Break</i>
10:45 – 11:45	Plenary Lectures <i>Europasaal</i> Deog-Seong Oh (Chungnam National University) » High Tech Cluster / Smart City Development in the 4 th Industrial Revolution Boris Radke (ProSiebenSat.1) » Complacency vs. Paranoia – Choosing the balance for our future
12:00 – 13:30	<i>Lunch</i>
13:30 – 15:00	Parallel Sessions – Part I Digital Production and Products – Industry 4.0 <i>Europasaal</i> <i>Moderation: Robert Esser</i> Nicolina Praß (ITA Academy GmbH - Digital Capability Center) » Industry 4.0 - Analysis of the Production Facilities Violet Zeller (FIR e. V. at RWTH Aachen) » Industry 4.0 - The Maturity Index Imbo Sim (DUA Inc.) » A Highly Adaptive Supply Chain Platform for Smart Manufacturing Innovation
	Smart Cities and Infrastructure <i>Conference Room K1</i> <i>Moderation: Yong-Seun Chang-Gusko</i> Lutz Heuser (the urban institute) » How Real-time Urban Data Creates Value to Cities Jung Hoon Lee (Yonsei University) » Smart City Trends & Perspectives in the age of 4th Industrial Revolution Denis Krechting (FIR e.V. RWTH Aachen University) » Metropolitan Cities an innovation region of tomorrow Duk-Young Nam (LG Uplus Corporation) » The Case Study of the Smart City Construction in South Korea

	<p>Future Mobility <i>Conference Room K2</i> Youngcho Chi (Hyundai Motor Company) » Future Mobility: Tradition vs. Disruption Heinrich Bühlhoff (Max-Planck-Institute for Biological Cybernetics) » Future Transportation Systems: are air-taxis coming soon? Martin Woehrle (Hyundai Motor Company) » Future Mobility - Most Influenced by Convergence Jürgen Ogrzewalla (FEV Europe) » Trends of electric vehicle development - activities worldwide and in Aachen</p>
	<p>Energy for our Future (DAAD further training program for alumni) <i>Brüsselsaal</i> Moderation: Frank Tietz, Manfred Martin Walter Leitner (Max-Planck-Institute for Chemical Energy Conversion & RWTH Aachen University) » Power-to-X: Re-designing the Interface of the Energy and Chemistry Sectors Chang Soo Kim (Korea Institute of Energy Research) » Challenge & Opportunity of Fuel Cell against Global Warming Reinhard Madlener (RWTH Aachen University, E.ON Energy Research Center) » Market diffusion of innovative energy technologies under uncertainty Hermann Tempel (Forschungszentrum Jülich GmbH) » All Solid-State Batteries - Perspectives for Safe and Reliable Energy Storage</p>
	<p>Business Opportunities for German and Korean Companies <i>Conference Room K4</i> Frank Leisten (AGIT) Mareike Neumann (RWTH Campus GmbH)</p>
15:00 – 15:30	<i>Coffee Break and RWTH-Alumni and -Student Meeting</i>
15:30 – 17:00	Parallel Sessions – Part II
	<p>Digital Production and Products – Industry 4.0 <i>Europasaal</i> Moderation: Robert Esser Geun Sik Jo (Inha University) » Industrial Augmented Reality supported by Artificial Intelligence Max Lemme (AMO GmbH and RWTH Aachen) » Two-dimensional Materials for Future IT Sophie Ertl (Maiwald Patentanwalts- und Rechtsanwalts-GmbH) » Intellectual property protection of 3D printing inventions</p>
	<p>Smart Cities and Infrastructure <i>Conference Room K1</i> Moderation: Yong-Seun Chang-Gusko Jae-Yong Lee (KRIHS) Nara Ohk (Saemangeum Development and Investment Agency) Max Mühlhäuser (TU Darmstadt) » Zukunftskonzepte für die Informations- und Kommunikationstechnologie (IKT) in Smart Cities Till Quadflieg / Martin Scheurer (RWTH Aachen University ITA) » Textile based solutions for health monitoring in civil applications</p>
	<p>Future Mobility <i>Conference Room K2</i> Soodong Park (Hyundai Motor Company) » Smart Mobility & Open Innovation Henning Baumgarten (FEV Group) » High efficient Gasoline engines for future mobility concepts Moderation of the Closing Discussion: Lothar Mahnke (AGIT)</p>
	<p>Energy for our Future (DAAD further training program for alumni) <i>Brüsselsaal</i> Moderation: Frank Tietz, Manfred Martin Olivier Guillon (Forschungszentrum Jülich GmbH) » Reliable, Flexible, and Efficient Energy Conversion via Solid Oxide Cells Kwangtae 'Kevin' Ha (Fraunhofer IWES) » Status and Prospect of EU Wind Energy, and 3020 Korea Renewable Energy Bodo Herrmann (Bundesnetzagentur) » The German Energy transition and necessary grid expansion - Challenges for the national approval authorities Jürgen Skrzypek (GNS Gesellschaft für Nuklear-Service mbH) » Spent Fuel Management 's Role in Germany - German Experiences from the Entire Life Cycle for Korea</p>
	<p>Business Opportunities for German and Korean Companies <i>Conference Room K4</i> Frank Leisten (AGIT) Representative of MOTIE</p>
17:00 – 17:15	<i>Announcements Europasaal</i>
17:15 – 17:30	<i>Closing Ceremony Europasaal</i>
19:00	<i>Organ Concert in Aachen Cathedral</i>