

MESSAGE FROM CHAIRMAN



Dear distinguished Europe's Korean scientists' and engineers' association members, and ladies and gentlemen

It is my pleasure and honor to announce that the 7th EU - Korea Conference on Science and Technology 2014 (EKC2014)

will be held in Vienna from 22 to 25 July 2014. From the first EKC in 2008 in Heidelberg Germany, with the valuable contribution of the Korean Scientists and Engineers in Europe, EKC is developing to be a successful event. After the successful conference in the year 2010 the EKC2014 will be held in Vienna again.

The topic of the EKC2014 is "Science & Technology and Humanity: The Role of Science and Technology for good of humanity". The program committee across Europe has been giving its effort to make the conference fruitful. On 22 July 2014, the pre-conference on-site tour to top research institutions in Vienna will take place. On 23 July 2014, an Industry Forum will be held with the support of the Korea Institute for the Advancement of Technology (KIAT) and the Vienna Business Agency. The EKC2014 starts on 24 July 2014. With the banquet in the evening on 25 July 2014 in the festival hall in the city hall the EKC 2014 will end.

Your contribution and participation will make this event successful. EKC2014 will give you a good opportunities to meet colleagues and exchange your professional expertise for future collaboration.

Looking forward to meeting you in Vienna,

HAN, Man-Wook, KOSEAA President

CONFERENCE INFORMATION

Please consult the EKC2014 conference webpage for further information (<http://www.ekc2014.org>).

If you have further questions regarding the conference, please contact: HYUN, Youn Joo (E-mail: info@ekc2014.org)

ORGANIZING COMMITTEE

Conference Chair:

HAN, Man-Wook (Austria), KOSEAA President

Honorary Chair

CHUNG, Chang Shik (Austria), Former KOSEAA President

Co-Chairs

LEE, Boo Sup (Korea), KOFST President
SEOK, Joon-Weon (Germany), VeKNI President
KIM, JIN IL (UK), KSEAUk President
JEUNG, Gwang-Hi (France), ASCoF President

Program Committee

Chair: PARK, Jong Mun (Austria)

Secretary: LEE, Tae Kwon (Austria)

Category Leaders:

CHOI, Kevin Kyeong-il (France), Aerospace and Mechatronics
HYUN, Chul Woo (Austria), Architecture
KIM, Soo-Hyun (UK), Biological and Medical Science
KIM, Dowon (UK), Energy and Environment
KANG, Myung Joo (Austria), Inclusive Development
CHO, Ji-Ho (Austria), Information and Communications Technology
KIM, Sejong (France), Material Science and Technology
PARK, Wonsun (Germany), Natural Science
LEE, Bohyun Katharina (Germany), Special Sessions

Local Organizing Committee

HYUN, Youn Joo
LIM, Hong Joon
CHO, Ji-Ho
LEE, Tae Kwon
KANG, Myung Joo
LEE, Eun Young
SHEU, Hanna
HYUN, Chul Woo

Young Generation Forum

KIM, Bo Sung
CHUNG, Gi Won

Venue: Vienna University of Economics and Business

Teaching Center (TC)

Welthandelsplatz 1, 1020 Vienna, Austria

Website: <http://www.wu.ac.at>



EU-KOREA CONFERENCE ON SCIENCE AND TECHNOLOGY



22 July 2014: Site Visits

23 July 2014: Industry Forum

24-25 July 2014: EKC2014 Conference

**Vienna University of
Economics and Business**

**Organized by
KOSEAA, VeKNI, KSEAUk, ASCoF**

www.ekc2014.org

2014 EU-KOREA CONFERENCE ON SCIENCE AND TECHNOLOGY

“THE ROLE OF SCIENCE AND TECHNOLOGY FOR GOOD OF HUMANITY”

IMPORTANT DATES

- 5 May 2014: Abstract Submission Deadline
- 20 May 2014: Abstract Acceptance Notification
- 15 Jun 2014: Deadline for Registration and Hotel Reservation

- 22 July 2014: Site Visits
- 23 July 2014: Industry Forum
- 24-25 July 2014: EKC2014

PRE-CONFERENCE SITE VISIT

DATE: 22 July 2014

- Life Science: Campus Vienna Biocenter
- Smart City: A new Town grows - Vienna's Urban Lake Side
- Mobility: Vienna Climatic Wind Tunnel

*Subject to modification

INDUSTRY FORUM

DATE: 23 July 2014

- Mobility:
Light Weight Materials, Electromobility, Embedded Systems
Electronic/Infotainment/Internet
- Life Science:
Bio Technology, Medical Technology, E-Health
- ICT:
Open Data/E-Government, Security/Authentication,
Mobile Web, Visualization
- Smart Production:
Automatisation/Robotics, Energy Saving, Distribution, 3D Print,
Services to increase Productivity

POSTER PRESENTATION

DATE: 24 July 2014

- Poster sessions cover a broad range of scientific topics including subjects in Concurrent Sessions.
- Program Committee will select a best poster presentation during EKC2014.
- Poster sessions will take place during welcome banquet.

CONCURRENT SESSIONS

DATE: 24 - 25 July 2014

Aerospace and Mechatronics

- Structural Design & New Materials
- Thermofluidics, Aerodynamics, Turbo Machinery
- Navigation and Advanced Satellite Systems
Including the On-ground Applications
- Robotics and Space Exploration
- Medical Robots

Architecture

- Workshop for Architecture
- Architecture and History

Biological and Medical Science

- Global Health - Leading to the Healthier World
- From Molecules to Diseases (part 1)
- Workshop for Medical Students
- Science in Society - Ethics in Scientific Research
- From Molecules to Diseases (part 2)
- Translational Research - Technologies for Humanity

Energy and Environment

- Perspectives on Nuclear Power
- Smart Grid and Power Electronics
- Perspectives on Bioenergy
- Marine Trend
- Eco-city
- Sustainable Resource Management
- Korea-EU Environmental Industry Forum for Technology Collaboration

Inclusive Development

- Introduction to Inclusive Development & Case Studies of Appropriate Technology and Community Development
- Workshop for Activity Plan of the Inclusive Development Research Association for Mankind (I-DREAM) in Europe

Information and Communications Technology

- Visual Computing
- Mathematical Model Behind Information Technology
- Biomedical Data Processing and Visualization
- 5G and Beyond 4G

Material Science and Technology

- Materials for Energy Conversion and Storage
- Nanotechnology and Its Industrialization
- Metal and It's Applications
- Future Flexible Display Technology and Materials 1
- Future Flexible Display Technology and Materials 2

Natural Science

- Communications in Science
- Big Science and Nobel Prize 2013, God (damn) Particle?
- Active Earth - Geodynamics
- Changing Ocean
- Session on Physics, Mathematics, Biology, and/or Chemistry Depending on Submission

Special Sessions

- R&D and Business Collaboration Model for Korea-EU I
- R&D and Business Collaboration Model for Korea-EU II

SATELLITE PROGRAMS

DATE: 24-25 July 2014

- Young Generation Forum
- Mento-Mentee Program
- Science School
- EU S&T Attaché Meeting
- EU Association Round Table
- Job Fair

WOLFGANG ERNST PAULI (PHYSICIST, 1900 - 1958)
BORN IN VIENNA, ONE OF THE FOUNDERS OF QUANTUM PHYSICS
THE NOBEL PRIZE WINNER IN PHYSICS FOR HIS "A NEW LAW OF NATURE: THE EXCLUSION PRINCIPLE", IN 1945.

KONRAD LORENZ (ZOOLOGIST, 1903 - 1989)
BORN IN VIENNA, ONE OF THE FOUNDERS OF MODERN ETHOLOGY, HE STUDIED INSTINCTIVE BEHAVIOR OF ANIMALS, DISCOVERED THE PRINCIPLE OF 'IMPRINTING' IN THE BEHAVIOR OF BIRDS.
NOBEL PRIZE WINNER IN PHYSIOLOGY AND MEDICINE, 1973.

LUDWIG BOLTZMANN (PHYSICIST, 1844 - 1906)
BORN IN VIENNA, CONTRIBUTED ON THE FIELD OF STATISTICAL MECHANICS AND STATISTICAL THERMODYNAMICS.
FAMOUS FOR BOLTZMANN'S EQUATION WRITTEN ON HIS TOMB, $S = k \cdot \log W$