

## Invited Speakers



**Dr. Sun-taik Kwon**  
Mayor, Daejeon Metropolitan City



**Mr. Suk-Joon Lee**  
1st Vice Minister, Ministry of Science, ICT and Future Planning



**Mr. Sang Min Lee**  
Member of National Assembly of Korea



**Dr. Byung Joo Min**  
Member of National Assembly of Korea



**Mr. Joon Yang Chung**  
President, the National Academy of Engineering of Korea  
Ex-Chairman & Adviser, POSCO



**Dr. Taylan Altan**  
Emeritus Professor  
Director, Engineering Research Center for Netshape Manufacturing  
The Ohio State University



**Mr. Guenther Klopsch**  
President, Industry Division  
Siemens Korea



**Dr. Sangwhui Cho**  
Vice President  
Hyundai Rotem Company



**Dr. Stephan Roth**  
Managing Director  
Bavarian Laser Center (Bayerisches Laserzentrum GmbH)



**Dr. Luke P. Lee**  
Arnold and Barbara Silverman Distinguished Professor  
U.C. Berkeley



**Mr. Kenji Ando**  
Senior Executive Vice President  
Mitsubishi Hitachi Power Systems



**Dr. Jong-Soo Woo**  
President  
Research Institute of Industrial Science & Technology



**Dr. David Kormsmeier**  
Engineering Director  
NASA Ames Research Center

# 2014 International Forum Korea on Advances in Mechanical Engineering

October 24, 2014  
Hotel ICC  
Daejeon, Korea

Organized by



Sponsored by



## Invitation from the Organizer



Dear Colleagues,

On behalf of the Korea Institute of Machinery and Materials (KIMM), I would like to cordially invite you to the "2014 International Forum Korea on Advances in Mechanical Engineering" organized by KIMM at the Hotel ICC, Daejeon, Korea on the 24th of October, 2014.

KIMM, one of the national research institutes in Korea supported by the Ministry of Science, ICT, and Future Planning, launches the Forum with the goal of setting up new directions for research, development, and business (R&DB) in mechanical engineering to spur creative economy through development of science and technology.

At the forefront of the national R&DB efforts in mechanical engineering, KIMM has always been committed and dedicated to enhancing the well-being of humanity by developing and commercializing cutting-edge technologies. Recently, KIMM has been interested in energy/environment, safety, nanotechnology, and advanced manufacturing. In this regard, I hope you will share your expertise and experiences to accelerate potential achievement through challenges and innovation.

The one-day Forum will feature outstanding presentations and open discussions by renowned speakers from industry, academia, and research institutions around the world on new initiatives, action plans, and best practices concerning spearheading technological advances in the field of mechanical engineering, in particular, for next-generation manufacturing technologies including bio nanotechnology, energy and the environment as well as roles and perspectives of public research institutions.

I sincerely hope that you can join us in making the Forum successful and fruitful and look forward to meeting you soon in Daejeon, Korea.

With best regards,

Dr. Yong Taek Im  
President

## Forum Program

### 2014 International Forum Korea on Advances in Mechanical Engineering

October 24, 2014, The Hotel ICC, Daejeon, Korea

- 09:00 - 09:30 Registration
- 09:30 - 10:00 Opening Ceremony including Congratulatory Remarks by  
Dr. Sun-taik Kwon, Mayor of Daejeon Metropolitan City  
Mr. Sang Min Lee, Member of National Assembly of Korea  
Dr. Byung Joo Min, Member of National Assembly of Korea  
Mr. Suk-Joon Lee, 1st Vice Minister,  
Ministry of Science, ICT and Future Planning  
Mr. Joon Yang Chung  
President of the National Academy of Engineering of Korea  
Ex-Chairman of POSCO

#### Session 1 : Next-Generation Manufacturing Technologies

- 10:00-12:30 Dr. Taylan Altan  
Emeritus Professor  
Director, Engineering Research Center for Netshape Manufacturing  
The Ohio State University
- Mr. Guenther Klopsch  
President, Industry Division  
Siemens Korea
- Dr. Sangwhui Cho  
Vice President  
Hyundai Rotem Company
- Dr. Stephan Roth  
Managing Director  
Bavarian Laser Center (Bayerisches Laserzentrum GmbH)
- Dr. Luke P. Lee  
Arnold and Barbara Silverman Distinguished Professor  
U.C. Berkeley

12:30 - 13:30 Luncheon

#### Session 2 : Energy and the Environment

- 13:30 - 14:30 Mr. Kenji Ando  
Senior Executive Vice President  
Mitsubishi Hitachi Power Systems
- Dr. Jong-Soo Woo  
President  
Research Institute of Industrial Science & Technology

14:30 - 14:50 Coffee Break

#### Session 3 : Roles and Perspectives of Public Research Institutions

- 14:50 - 15:50 Dr. David Korsmeyer  
Engineering Director, NASA Ames Research Center
- Dr. Yong-Taek Im  
President, Korea Institute of Machinery and Materials
- 15:50 - 16:50 Panel Discussion
- 18:00 - 19:30 Banquet  
(Optional at the National Mechanical Engineering Congress)

\* Enquiries : Send e-mail to the Forum Secretariat at [secretariat@kimm.re.kr](mailto:secretariat@kimm.re.kr) or call at 82-(0)42-868-7828

\* Notice : The program might be changed without prior notice depending on the speakers' availability.

## Registration & Venue

### Registration:

On-line registration is available at <http://forum.kimm.re.kr>.

- \* Registration Fee: USD 200 or KRW 200,000 (Early-bird)  
USD 250 or KRW 250,000 (On-site)
- \* Registration Deadline: October 10, 2014
- \* Special dietary needs can be specified as you register.

### Venue:

#### The Hotel ICC, Daejeon

The Hotel ICC, Daejeon, located just next to the 1993 Expo site in the Daedeok Science Town, boasts spacious conference facilities and luxurious accommodation. Its advantageous location allows you to conveniently access various scientific sites. Find out more at [www.hotelicc.com](http://www.hotelicc.com).

#### Directions to the Venue:

##### \* Visitors from Incheon International Airport:

Take the KTX from the airport to Daejeon Station (around 1.8 hrs) and then take a taxi to the hotel (around 30 mins) or take the Limousine bus to Daejeon Terminal and get off at the Daejeon Government Complex (around 2.5 hours) and then take a taxi to the hotel (15 mins).

\* Intra-city buses coming to the venue: #121, #618, #705, and #911

#### Daejeon, Korea – Home of Scientific Innovations

Daejeon, located in the center of Korea, is a leading city for development of science and technology with more than 240 research-oriented institutions including KIMM, Korea Advanced Institute of Science and Technology, etc. Find out more about the city at [www.daejeon.go.kr/dre/index.do](http://www.daejeon.go.kr/dre/index.do).

