



International Symposium on Frontier of Science, Technology and Engineering
20 – 23 November 2017

KMUTT Knowledge Exchange for Innovation Center (KX), Bangkok, Thailand

November 20, 2017

7.30 PM **Registration and welcome party**
At the Ibis Bangkok Riverside: poolside party

November 21, 2017: Day 1

7.00 AM **Registration in front of the auditorium, 7th floor, KX**

8.00 AM **Welcome remarks**
By Associate Professor Sakarindr Bhumiratana,
President, Thai Academy of Science and Technology (TAST) and
President, King Mongkut's University of Technology Thonburi (KMUTT)
and
Ms. Panatda Chennavasin
Executive Vice President, Tri Petch Isuzu Sales Co., Ltd.

Opening remarks

By Mr. Yasunari Ueno
First Secretary, Representative of the Embassy of Japan

8.15 AM **"Orientation to FOSTE"**

By Professor Ichiro Kanaya
University of Nagasaki, Japan

8.30 AM **1st Topic: Sustainable Mobility**
"ISUZU Effort Towards Sustainable Mobility"

By Mr. Siamnat Panassorn
Tri Petch Isuzu Sales Co., Ltd.

"The (un)conference"

By Professor Ichiro Kanaya
University of Nagasaki, Japan

10.10 AM **Group photo of all participants**

10.20 AM **Coffee break**

10.30 AM **1st Topic: Sustainable Mobility (cont.)**
"Phuket Smart City Research at ITS Lab"

By Dr. Wasan Pattara-atikom
National Electronics and Computer Technology Center (NECTEC), Thailand

"Voting Power Analysis – Theory and Applications"

By Assistant Professor Masayo Tsurumi
Tsukuba University of Technology, Japan

- 12.10 AM **Lunch on the 6th floor, KX**
- 1.30 PM Flash poster presentations: 1-min oral presentation by each participant
Auditorium, 7th floor, KX
- 2.30 PM Poster session I : 19 participants (odd numbers) in the foyer on the 7th floor, KX
- 3.30 PM Poster session II : 18 participants (even numbers) in the foyer on the 7th floor, KX
- 4.30 PM **Coffee break**
- 4.40 PM **2nd Topic: Smart Agriculture**
 “ Bridging Genomics Technology and Modern Agriculture ”
 By Dr. Wirulda Pootakham
 National Center for Genetic Engineering and Biotechnology (BIOTEC), Thailand
 “Farm Machinery & System for Efficient Crop Production”
 By Dr. Yoshisada Nagasaka
 National Agriculture and Food Research Organization (NARO), Japan
- 6.00 PM **2nd Topic: Smart Agriculture (cont.)**
 “Using Aerial Drone Imaging for FMIS”
 By Dr. Kitsanai Charoenjit,
 Burapha University, Thailand
 “Human Sensing for Smart Agriculture”
 By Professor Daisaku Arita
 University of Nagasaki, Japan
- 7.30 PM **Dinner talk (seating) on the 6th floor**
 “How to Engineer the Future. How to be an Engineer.”
 By Dr. Mineya Kuno,
 The Engineering Academy of Japan

November 22, 2017: Day 2

- Auditorium, 7th floor, KX*
- 8.30 AM **3rd Topic: Green Energy**
 “Integrative Biorefinery for Sustainability: Conversion of Agricultural Feedstocks to Fuels and Chemicals”
 By Professor Navadol Laosiripojana
 King Mongkut’s University of Technology Thonburi (KMUTT), Thailand
 “Advanced Energy Materials”
 By Professor Kenji Itaka
 Hirosaki University, Japan
- 9.50 AM **Coffee Break**

- 10.10 AM **3rd Topic: Green Energy (cont.)**
“Nanotechnology for Bioenergy and Bio-based Chemicals”
 By Dr. Kajornsak Faungnawakij
 National Nanotechnology Center (NANOTEC), Thailand
- “Art Challenges Technology, and Technology Inspires Art”**
 By Professor Ichiro Kanaya
 University of Nagasaki, Japan
- 11.30 AM Lunch *on the 6th floor*
- 1.00 PM Excursion: Ayutthaya
- 7.00 PM Dinner at the Ibis Bangkok Riverside

November 23, 2017: Day 3

Auditorium, 7th floor, KX

- 8.30 AM **4th Topic: Automation and Robotics**
“Robotics and Automation in De-manufacturing Applications Toward Sustainability”
 By Dr. Supachai Vongbunyong
 King Mongkut’s University of Technology Thonburi (KMUTT), Thailand
- “Computerization of Medicine and Biology”**
 By Professor Yoshikazu Nakajima,
 Tokyo Medical and Dental University (TMDU), Japan
- 9.50 AM Coffee Break
- 10.00 AM **4th Topic: Automation and Robotics (cont.)**
“Robots for Children with Autism Spectrum Disorder”
 By Associate Professor Panrasee Ritthipravat
 Mahidol University, Thailand
- “Beyond Human Computer Interaction”**
 By Dr. Keiko Yamamoto
 Kyoto Institute of Technology (KIT), Japan
- 11.00 AM Wrap-up session I
- 12.00 PM Lunch *on the 6th floor*
- 13.00 PM Wrap-up session II
- 14.00 PM Closing ceremony