

Tentative AGENDA*

Symposium on Materials for Renewing and Protecting Critical Infrastructure and Resources

19-20 June 2017

National Metal and Materials Technology Center (MTEC), National Science and
Technology Development Agency (NSTDA), Thailand Science Park

Monday 19 June 2017

- 7.30 Pick-up from Chatrium Hotel Riverside Bangkok
- 8.40 **Greeting and Opening of the Symposium**
Dr. Laurie E. Locascio – President of WMRIF, NIST, USA
- 8.50 **Welcoming remarks**
Dr. Narong Sirilertworakul – Executive Director, NSTDA, Thailand

TECHNICAL SESSION (I) - Materials for innovation in Agriculture, Water and Environmental Management

- 9.00 Guang-Way Jang (ITRI, Taiwan)
Development of Bio-resourced Chemicals and Materials
- 9.30 Surapich Loykulnant (MTEC, Thailand)
Applications of Bio-Based Polymers for Green Latex Production
- 10:00 Coffee Break
- 10.30 In-Hyuck Song (KIMS, Korea)
Current Status and Prospects of Ceramic Membrane for
Water Treatment
- 11:00 Michael Stadermann (LLNL, USA)
Carbon foams with hierarchical pore structure for capacitive
desalination
- 11:30 Meng-Shun Huang (ITRI, Taiwan)
Application of membrane technology for wastewater treatment-
membrane distillation
- 12:00 Lunch Break

* Changes to the agenda are possible
As of 24 March 2017



TECHNICAL SESSION (I) - Materials for innovation in Agriculture, Water and Environmental Management, Cont.

- 13:30 Tohru Kawamoto (AIST, Japan)
Multiscale Design of Gas/Ion Adsorbents With Porous Coordination Polymers
- 14:00 János Volk (MTA EK MFA, Hungary)
Piezoelectric Thin Films and Nanowires for Low-Power Sensors and Vibrational Energy Harvesters
- 14:30 Dong-Ho Kim (KIMS, Korea)
Nanogap Plasmonic Materials for SERS-based Ultrasensitive Chemical Sensors
- 15:00 Coffee Break

TECHNICAL SESSION (II) - Materials for innovation in construction, building resilience, and infrastructure protection

- 15:30 Yasusei Yamada (AIST, Japan)
Chromogenic Materials for Smart Windows
- 16:00 Sitthisuntorn Supothina (MTEC, Thailand)
Transparent Superhydrophobic Film for Glass Panel Coating
- 16:30 Pietro Lura (EMPA, Switzerland)
Innovative Solutions for Buildings and Infrastructure based on High-Performance Concrete: Increased Volume Stability, Better Fire Resistance and Self-prestressing
- 17:00 Ksenija Vasilic (BAM, Germany)
Numerical Modelling of Fresh Self-Compacting Concrete Flow
- 17.30 Tae-Ho Lee (KIMS, Korea)
Advanced steels for safety infrastructures
- 19:00 Dinner by the river

Tuesday 20 June 2017

7.20 Pick-up from Chatrium Hotel Riverside Bangkok

TECHNICAL SESSION (II) - Materials for innovation in construction, building resilience, and infrastructure protection, Cont.

- 8:30 Junhua Dong (IMR-CAS, China)
Study on the galvanic corrosion of ferrite-pearlite steel and its control under an acid environment
- 9.00 Ekkarut Viyanit (MTEC, Thailand)
Pitting Corrosion Behavior of Type 304L Stainless Steel Tube under Hydrodynamics of Chloride-containing Solution
- 9.30 Seiji Kuroda (NIMS, Japan)
Corrosion Prevention of Steel Structures by Surface Technologies
- 10:00 Coffee Break
- 10.30 Nicholas Barbosa (NIST, USA)
The Materials Science of Infrastructure - Fundamental Science to Implementation and Impact
- 11:00 Koichi Tsuchiya (NIMS, Japan)
Materials Technology to Improve Service Life of Infrastructures
- 11:30 Jason Averill (NIST, USA)
Community Resilience and Materials Science
- 12:00 Lunch Break
- 13:30 Tour of MTEC
- 16:30 Transport back to Chatrium Hotel Riverside Bangkok