



Surface & Coatings Forum 2017

Driving S-Curve Industries through Surface Technology and Innovations

Friday 23 June 2017 at 9.00 – 16.00 hrs., SILK Room 1-3, International Trade & Exhibition Center (BITEC), Bangkok
Co-organized by Metallurgy and Materials Science Research Institute (MMRI), Chulalongkorn University and Reed Tradex

To promote the sustainable growths of the economy, many countries strategically focus on the developments of the high value-added innovation based industries. In Thailand, for example, the so-called s-curve industries with fast growing potentials have been identified. These include next-generation automotive, smart electronics, aviation, and medical hubs. Interestingly, many of these industries are critically enabled and strengthened by surface technology and innovations. To name a few, surface technology is required for the developments and productions of electrode battery, PCB interconnects, and aviation's components. The developments of surface technology and innovations will thus underpin the growth of these important industries.

In Surface & Coatings Forum 2017, we are honored to have the local and international experts to deliver the talks on the subjects related to the s-curve industries and the contributions of surface technology and innovations. Furthermore, an array of the cutting-edge surface technology and innovations that illustrate the s-curve developments of the surface finishing industry itself will be discussed.

Morning Session:

09.00 – 09.30 hrs.

Registration

09.30 – 10.10 hrs.

Opening speech and presentation :

Strengthening Thailand's competitiveness with the target s-curve industries and strategic policies in science, technology and innovations

By Dr. Kitipong Promwong
Secretary General

National Science Technology and Innovation Policy Office (STI)

10.10 – 10.15 hrs.

Thailand Electroplating Network (TEPNET):

Activities for development of the plating industry

By Assoc. Prof. Dr. Yuttanant Boonyongmaneerat
Deputy Director

Metallurgy and Materials Science Research Institute, Chulalongkorn University

10.15 – 10.50 hrs.

Electric vehicles: opportunities and challenge of surface treatment industry

By Mr. Suphot Sukphisarn
Deputy Secretary General,
Thai Auto Parts Manufacturers Association (TAPMA)

10.50 – 11.25 hrs.

**Contributions of electroplating to the high-value added industries:
Case study of hard chrome plating**

By Dr. Martin Metzner
Head of Department for Electroplating
Fraunhofer Institute for Manufacturing Engineering and Automation, IPA

11.25 – 12.00 hrs.

Advanced Anodizing of Aluminum, Magnesium, and Titanium

By Dr. Sungmo Moon
Principal Researcher / Professor
Korean Institute of Materials Science (KIMS)

12.00 – 13.30 hrs.

Lunch break



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Afternoon Session:

- 13.00 – 13.30 hrs. **Registration**
- 13.30 – 14.00 hrs. **Nanocoating technology for enhanced corrosion resistance and black decorative finishes**
By Mr. Shou Mao Hung
R&D Manager
Ya Chung Chemical Group
- 14.00 – 14.30 hrs. **Advances in surface modifications and coatings of biomaterials for medical applications**
By Dr. Jintamai Suwanprateeb
Principal Researcher
National Metal and Materials Technology Center (MTEC)
- 14.30 – 15.00 hrs. **Synchrotron photoemission electron microscopy (PEEM) for surface & thin film research: Case studies in surface modification and functional applications**
By Dr. Chanun Euaruksakul
The Synchrotron Light Research Institute (SLRI)
- 15.00 – 15.30 hrs. **Technology update on plating on plastic for sustainability**
By Dr. Toshimitsu Nagao
Manager, General Head Researcher, Metal Finishing
Okuno Chemical Industries Co., Ltd.
- 15.30 – 16.00 hrs. **Zn-Ni electrodeposition for automotive and aerospace components**
By Mr. Jamie Flesch
Technical support & Marketing Coordinator
Dipsol of America, Inc.
- 16.00 – 16.30 hrs. **PVD Coating (Physical Vapour Deposition) for decorative, tribological and tool applications**
By Asst.Prof.Dr.Rachsak Sakdanuphab
King Mongkut's Institute of Technology Ladkrabang
- 16.30 – 17.00 hrs. **Sustainable paint pretreatment for alloy wheels and multi-metal automotive and motorcycle components**
By Mr. Matthew Morey
Worldwide Product Manager, Paint support technologies
Atotech USA



Remark : As of 18 May 2017

- Conference will be **conducted in English**
- Seminar is free of charge. Seats are limited and reserved for pre-registered delegates.
- For more information, please contact our Contact Center via **Email : contactcenter@reedtradex.co.th** or **Call : 02 686 7222**
- The Organizer reserves the right to adjust the program without prior notice.

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