



# 8<sup>th</sup> International Conference on Materials Science and Technology

December 15-16, 2014

Swissôtel Le Concorde,  
Bangkok, Thailand

## Plenary Speaker



**Prof. Dr.-Ing. Thomas Böllinghaus**  
BAM - Federal Institute for Materials Research and Testing  
World Materials Research Institute Forum (WMRIF)

**Title**

"10 Technology Trends in Materials Science and Engineering, including their Application"



**Prof. Dr. Tatsumi Ishihara**  
Department of Applied Chemistry, Faculty of Engineering, Kyushu University

**Title**

"New Technology for Carbon Neutral Energy"



**Mr. Tim Grant**  
Member of executive of Australian Life Cycle Assessment Society (ALCAS)  
Director of Life Cycle Strategies

**Title**

"Sustainable Use of Materials Rather Than Sustainable Materials. The Importance of LCA to Assessing Materials Performance"

## Invited Speaker

### Biomedical Materials and Devices



**Prof. Dr. Takayoshi Nakano**  
"Preferential Orientation of Biological Apatite Crystallites in Bone and Regeneration of Anisotropic Bony Tissue Surrounding Metal Implants"



**Prof. Dr. Pasutha Thunyakitpisal**  
"New Era of *Aloe vera* as Biomaterial for Tissue Regeneration"

### Polymer-based Materials



**Prof. Dr. Takeshi Kikutani**  
"Multi-Component Polymer Processing for Novel Applications"



**Dr. Somboon Sahasithiwat**  
"Organic Light-Emitting Materials based on [5]Helicene Derivatives"

### Ceramic-based Materials



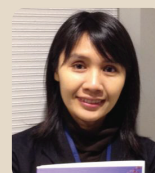
**Assoc. Prof. Dr. Masahiro Miyauchi**  
"Novel Visible-light-Sensitive Photocatalyt for Indoor Environmental Purification"



**Prof. Dr. Hyung-Ho Park**  
"Transparent Electrode Material for Organic Light Emitting Diode by Atomic Layer Deposition"



**Asst. Prof. Dr. Sirithan Jiemsirilars**  
"Current Research on Geopolymer Technology"



**Asst. Prof. Dr. Kedsarin Pimraksa**  
"Binding Phases in Construction Materials"

### Metals, Alloys & Intermetallic Compounds



**Dr. John Thomas Harry Pearce**  
"Some Cast Irons are Special"

### Materials Technology for Environment



**Assoc. Prof. Chalerawat Tantasavasdi**  
"Integrative Design for Sustainable Living"



**Dr. Jaturong Jitputti**  
"High Emissivity Coating for Energy Saving in Steam Cracking Furnace"

### Simulation, Design and Manufacturing



**Dr. Suwat Jiratheeranant**  
"Considerations in Finite Element Analysis for Sheet Metal Forming"

### Material for Energy



**Prof. Dr. Martin Muhler**  
"Carbon Nanotubes for Chemical Energy Conversion and Storage"



**Assoc. Prof. Dr. Attera Worayingyong**  
" $La_{1-x}A_xCoO_{3-\delta}$  Perovskite Type Oxides as Catalysts for VOCs Oxidation"



**Prof. Dr. Piti Sukontasukkul**  
"Advance Researches on Fibre Reinforced Concrete in Thailand"

### Tribology Technical Session



**Prof. Dr. Yonngang Meng**  
"Active Control of Boundary Lubrication"

### Material Reliability



**Dr. Seishi Tsumaya**  
"Strengthening Competitiveness of JFE Steel Corporation through Research and Development (R&D)"



**Assoc. Prof. Dr. Puangrat Kajitvichyanukul**  
"Environmental Nanotechnology: Application of Nanomaterials for Environmental Protection and Pollution Abatement"



**Prof. Dr. Gobwute Rujjanagul**  
"Electrical Properties of  $Ba(Zr_{0.07}Ti_{0.93})O_3/Co$  Composites"

### Surface Engineering and Heat Treatment Session



**Mr. Suphot Sukphisarn**  
"Thai Auto-parts Trend, Surface Treatment Development and Thai Parker Direction"



[www.mtec.or.th/MSAT-8](http://www.mtec.or.th/MSAT-8)