



# **Coatings Science International 2008**

**Conference Program**

Hotels van Oranje Noordwijk  
23 June – 27 June 2008  
The Netherlands



**Coatings Science International**

**This Conference is sponsored by:**



**ELSEVIER**



**TU/e**



## Mission Statement

The Coatings Science International Conference strives to become the leading European Conference on the Science and Technology of Coatings. By creating strong international bonds and by inviting top-notch speakers from around the world, we want to create a high-quality platform for free exchange of scientific knowledge between both academic and industrial scientists that will strengthen the innovation power of the global coatings community.

## Just another Coatings Conference?

No, where other Conferences primarily try to reach a broad public and focus on commercial applications of new technologies, this Conference intends to focus on the scientific backgrounds of the newest technological developments relevant to Coatings. In the convenient setting of 5-star hotel on the North Sea beach and with a maximum of 120 participants, Coatings Science International 2008 will breathe the atmosphere of a Gordon-type conference, reminiscent of the famous Athens Conferences (1974-2003). High-quality speakers, ample time for scientific discussions, and every opportunity to establish rewarding contacts are Conference values we want to uphold.

## Organizing Committee COSI 2008

|                            |   |
|----------------------------|---|
| Prof. Dr. Rolf van Benthem | Chair, TU/e, The Netherlands                |
| Dr. Johannes Benkhoff      | CIBA, Switzerland                           |
| Prof. Dr. Gordon Bierwagen | North Dakota State University, USA          |
| Prof. Dr. Wolfgang Bremser | Universität Paderborn, Germany              |
| Dr. Catherine Dekerckheer  | Institut Meurice-Heldb, Belgium             |
| Dr. Piet van Hensbergen    | Akzo Nobel N.V., The Netherlands            |
| Prof. Dr. Mats Johansson   | Royal Institute of Technology, Sweden       |
| Dr. Joseph L. Keddie       | University of Surrey, UK                    |
| Drs. Ad Overbeek           | DSM NeoResins, The Netherlands              |
| Dr. Wolfgang Paulus        | BASF Coating AG, Germany                    |
| Dr. Marcel Piens           | Coating Research Institute (CORI), Belgium  |
| Anna Saar McGonigle        | Elsevier, USA                               |
| Prof. Dr. Masamitsu Shirai | Osaka Prefecture University, Japan          |
| Dr. Bettina Vogt           | Dupont Performance Coatings, Germany        |
| Dr. Douglas A. Wicks       | The University of Southern Mississippi, USA |
| Prof. Dr. Bert de With     | TU/e, The Netherlands                       |
| Imanda Scholten-Kamstra    | Secretary, TU/e, The Netherlands            |

**Monday 23 June 2008**

### Arrival

20:00- 22:00 hrs      Registration / Reception



## Tuesday 24 June 2008

### Weathering

- 08:45 – 09:00 Opening
- 09:00 – 09:45 Jonathan W. Martin, National Institute of Standards and Technology, USA  
*Linking field and laboratory exposure and prediction long-term performance of an epoxy coatings*
- 09:45 – 10:15 Ingo Alig, Deutsches Kunststoff-Institut, Germany  
*Scanning acoustic microscopy for investigation of coatings*
- 10:15 – 10:45 Liping Wen, Wuhan University of Technology, P.R. China  
*Efficient degradation of aqueous methyl orange over TiO<sub>2</sub> and CdS electrodes using photoelectrocatalysis under UV and visible light irradiation*
- 10:45 – 11:15 Break

### Hybrids

- 11:15 – 11:45 Yoshiki Chujo, Japan  
*Organic-inorganic polymer nano-hybrid coatings*
- 11:45 – 12:15 Fabiola Brusciotti, Vrije Universiteit Brussel, Belgium  
*Characterization of hybrid organic/silicon based coatings deposited by wet and plasma deposition methods*
- 12:15 – 12:45 Dean C. Webster, North Dakota State University, USA  
*Hybrid sol-gol coatings from glycidyl carbamate functional resins*
- 12:45 – 14:30 Buffet Lunch

### Corrosion

- 14:30 – 15:15 Guido Grundmeier, University of Paderborn, Germany  
*Structure and stability of polymer/oxide/metal interfaces:  
Bridging the gap between interface analysis and advanced surface technologies*
- 15:15 – 15:45 Yina Guo, Northwestern Polytechnical University, P.R. China  
*A chromium-free conversion treatment for Magnesium by phytic acid solution*
- 15:45 – 16:15 S. Radhakrishnan, National Chemical Laboratory, India  
*Conductive polymer based nano-particulate hybrid composite coatings for enhanced corrosion protection*
- 16:15 – 16:45 Break
- 16:45 – 17:15 P.A. Sørensen, Technical University of Denmark, Denmark  
*Influence of substrate characteristics on cathodic delamination of anticorrosive coatings*
- 18:00 – 22:00 Poster session + drinks
- 20:00 – 22:00 Buffet Dinner

## Wednesday 25 June 2008

### New Vistas

- 08:45 – 09:30 Björn Weber, University of Paderborn, Germany  
*Creating new materials with melamine resins.*
- 09:30 – 10:00 Mariëlle Wouters, TNO Science & Industry, the Netherlands  
*Preparation and properties of a novel remendable coating concept*
- 10:00 – 10:30 Thomas Zweg, Larsen Strings, Denmark  
*Optimization of tone quality or timbre of musical strings for bowed Instruments*
- 10:30 – 11:00 Break

### Radiation Curing

- 11:00 – 11:30 Isabelle Fallais, Cytec Surface Specialties, Belgium  
*Radiation curing technology: an innovative and attractive technology for metal coating*
- 11:30 – 12:00 Ralf Knischka, Ciba Specialty Chemicals, Inc., Switzerland  
*Novel approaches in NIR curing technology*
- 12:00 – 12:30 Masamitsu Shirai, Osaka Prefecture University, Japan  
*i-Line sensitive photoacid generators for UV curing*
- 12:30 – 13:00 Per-Erik Sundell, Sweden  
*UV-cured coil-coatings – product performance and outdoor durability*
- 13:00 – 14:00 Buffet Lunch
- 14:15 – 14:15 Arrival coaches at Hotels van Oranje
- 14:30 – Departure to Haarlem for the **social program**,
- 15:30 – 18:00 Visit museum, Teyler museum
- 21:00 Return trip from Haarlem to Noordwijk

## Thursday 26 June 2008

### Nanotechnology I

- 8:45 – 9:30 Pascal Buskens, DSM Research, the Netherlands  
*State of the art single layer anti-reflective coatings*
- 9:30 – 10:00 José Brokken-Zijp, Eindhoven University of Technology, the Netherlands  
*Polymer composites with (semi)-conductive nano-fillers*
- 10:00 – 10:45 Horst Hintze-Bruening / Anne-Lise Troutier, BASF Coatings, Germany  
*Layered particle based polymer composites for coatings*
- 10:45 – 11:15 Break

### Nanotechnology II

- 11:15 – 11:45 Gerhard Jonschker, Merck KGaA, Germany  
*New monodispersed core/shell nanoparticles for improving scratch resistance of coatings*
- 11:45 – 12:15 Eun-Hee Kim, Changwon National University, Korea  
*Polyhedral oligomeric silsesquioxane reinforced polyurethane acrylate*
- 12.15 – 12:45 M. L. Zheludkevich, University of Aveiro, Portugal  
*LDH-based nanocontainers as anticorrosive pigments for protective coatings*
- 12:45 – 14:30 Buffet Lunch

### Chemistry

- 14:30 – 15:15 Joost van Dijk, AkzoNobel, the Netherlands  
*Pushing polyurethane crosslinking beyond its speed limit*
- 15:15 – 15:45 Masaaki Saika, Kansai Paint, Japan  
*CO<sub>2</sub> emission reducible coatings based on modified corn-starch*
- 15.45 – 16.15 Ananda Kumar Srinivasan, Anna University Chennai, India  
*Development and characterization of phosphorus containing siliconized epoxy resin coatings*
- 16:15 – 16:45 Break

### Pigments

- 16:45 – 17:15 Bernd Göbelt, BYK-Chemie GmbH, Germany  
*Flat panel display: tuning the developing properties of the color resist*
- 17:15 – 17:45 Andreas Joch, BASF Coatings, Germany  
*Innovative production process for pigmented powder coatingst*
- 19:00 – 22:00 Conference Dinner

**Friday 27 June 2008**

### **Interfaces & Adhesion I**

- 08:45 – 09:30 Alexander Fedorov, University of Groningen, the Netherlands  
*Degradation of adhesion in deformed polymer-metal interfaces studied by laser induced delamination technique*
- 09:30 – 10:00 Natalya Baklanova, Institute of Solid State Chemistry and Mechanochemistry, Russian Federation  
*Research and development of nanosized interfacial coatings on small diameter carbon and SiC fibers for composite materials*
- 10:00 – 10:30 Tessa ten Cate, TNO Science & Industry, the Netherlands  
*Tailored surface properties using polymer brush coatings*
- 10:30 – 11:00 Break

### **Interfaces & Adhesion II**

- 11:00 – 11:45 Guillermo J. Cruz, Instituto Nacional de Investigaciones Nucleares, Mexico  
*Metallic layers added by plasma on polyethylene*
- 11:45 – 12:15 Nathalie De Geyter, Ghent University, Belgium  
*Deposition of hydrophobic coatings on polymer films using a dielectric barrier discharge*
- 12:15 – 12:45 Stacy M. Trey  
*Effect of residual stress build-up and cure shrinkage in UV cured acrylate resins on adhesion to SMC substrates*
- 12:45 – 13:00 Closing, Awards Presentation
- 13:00 – 14:00 Buffet lunch



## Coatings Science International

### **Local Organization:**

Eindhoven University of Technology  
Department of Chemical Engineering and Chemistry  
Laboratory of Materials and Interface Chemistry  
The Netherlands

### **Contact:**

[congressoffice@tue.nl](mailto:congressoffice@tue.nl)

[www.coatings-science.com](http://www.coatings-science.com)

