



# **Coatings Science International 2008**

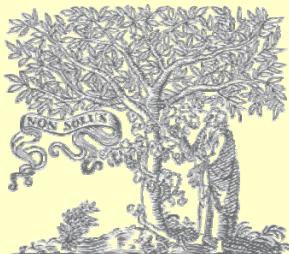
**Conference Program**

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



**Coatings Science International**

**This Conference is sponsored by:**



**ELSEVIER**



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

### Hybrids

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

### Corrosion

14:30 – 15:15	Guido Grundmeier, University of Paderborn, Germany <i>Structure and stability of polymer/oxide/metal interfaces: Bridging the gap between interface analysis and advanced surface technologies</i>
15:15 – 15:45	Yina Guo, Northwestern Polytechnical University, P.R. China <i>A chromium-free conversion treatment for Magnesium by phytic acid solution</i>
15:45 – 16:15	S. Radhakrishnan, National Chemical Laboratory, India <i>Conductive polymer based nano-particulate hybrid composite coatings for enhanced corrosion protection</i>
16:15 – 16:45	Break
16:45 – 17:15	P.A. Sørensen, Technical University of Denmark, Denmark <i>Influence of substrate characteristics on cathodic delamination of anticorrosive coatings</i>
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 <i>Creating new materials with melamine resins.</i>
09:30 – 10:00	Mariëlle Wouters, TNO Science & Industry, the Netherlands <i>Preparation and properties of a novel remendable coating concept</i>
10:00 – 10:30	Thomas Zwieg, Larsen Strings, Denmark <i>Optimization of tone quality or timbre of musical strings for bowed Instruments</i>
10:30 – 11:00	Break

### Radiation Curing

11:00 – 11:30	Isabelle Fallais, Cytec Surface Specialties, Belgium <i>Radiation curing technology: an innovative and attractive technology for metal coating</i>
11:30 – 12:00	Ralf Knischka, Ciba Specialty Chemicals, Inc., Switzerland <i>Novel approaches in NIR curing technology</i>
12:00 – 12:30	Masamitsu Shirai, Osaka Prefecture University, Japan <i>i-Line sensitve photoacid generators for UV curing</i>
12:30 – 13:00	Per-Erik Sundell, Sweden <i>UV-cured coil-coatings – product performance and outdoor durability</i>
13:00 – 14:00	Buffet Lunch
14:15 – 14:15	Arrival coaches at Hotels van Oranje
14:30 –	Departure to Haarlem for the <b>social program</b> ,
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 <i>State of the art single layer anti-reflective coatings</i>
9:30 – 10:00	José Brokken-Zijp, Eindhoven University of Technology, the Netherlands <i>Polymer composites with (semi)-conductive nano-fillers</i>
10:00 – 10:45	Horst Hintze-Bruening / Anne-Lise Troutier, BASF Coatings, Germany <i>Layered particle based polymer composites for coatings</i>
10:45 – 11:15	Break

### Nanotechnology II

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

### Chemistry

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

### Pigments

16:45 – 17:15	Bernd Göbelt, BYK-Chemie GmbH, Germany <i>Flat panel display: tuning the developing properties of the color resist</i>
17:15 – 17:45	Andreas Joch, BASF Coatings, Germany <i>Innovative production process for pigmented powder coatings</i>
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

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