Coatings Science International
Conference Program

Hotels van Oranje Noordwijk
28 June – 1 July 2005
The Netherlands
Coatings Science International Conference Program

This Conference is sponsored by:

TU/e

BYK Chemie

KTH

DPI

VINCENTZ

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 2005 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 2005
Prof. Dr. Rolf van Benthem Chair, TU/e, The Netherlands
Dr. Godwin Berner CIBA, Switzerland
Prof. Dr. Gordon Bierwagen North Dakota State University, USA
Prof. Dr. Wolfgang Bremsner Universitat Paderborn, Germany
Dr. Piet van Hensbergen Akzo Nobel N.V., The Netherlands
Assoc. Prof. Dr. Mats Johansson Royal Institute of Technology, Sweden
Dr. Werner Lenhard Dupont Performance Coatings GmbH & Ko KG, Germany
Dr. Ad Overbeek NeoResins, The Netherlands
Chris Pacey-Day Surface Coatings International, United Kingdom
Dr. Marcel Piens Coating Research Institute (CORI), Belgium
Dr. George R. Pilcher Akzo Nobel Coatings Inc. USA
Dr. Wolfgang Paulus BASF Coating AG, Germany
Dr. André Toussaint Advanced Coatings Technology Consultancy Office
Prof. Dr. Bert de With TU/e, The Netherlands
Anouschka Zwart Elsevier B.V., The Netherlands
Imanda Scholten-Kamstra Secretary, TU/e, The Netherlands

Monday 27 June 2005
Arrival
20:00- 22:00 hrs Registration / Reception
Coatings Science International
Conference Program

Tuesday 28 June 2005

Weathering  
8:45 – 9:00 hrs  Opening  
9:00 – 9:45 hrs  M. Nichols (Ford Motor Company, USA)  
“The weathering behavior of UV curable clear coats: Experiments and implications”  
9:45 – 10:15 hrs  S. Croll (North Dakota State University, USA)  
“Statistical approaches for predicting weathering degradation and service life”  
10:15 – 10:45 hrs  J.W. Martin (National Institute of Standards and Technology)  
“Linking field and laboratory service life exposure results for polymeric materials via a reliability-based methodology: A successful case study”  
10:45 – 11:15 hrs  Break

Film Formation  
11:15 – 12:00 hrs  P.A.M. Steeman (DSM Research BV, The Netherlands)  
“Recent developments in monitoring film-formation and cure of coatings”  
12:00 – 12:30 hrs  M. Bosma (Akzo Nobel Research and Technology Chemicals, The Netherlands)  
“The role of sag control agents in optimizing the sag/leveling balance”  
12:30 – 14:00 hrs  Buffet Lunch  
14:00 – 14:45 hrs  J.L. Keddie (University of Surrey, UK)  
“Insights from modern techniques into the film formation of waterborne coatings”  
14:45 – 15:15 hrs  B. Erich (Eindhoven University of Technology, The Netherlands)  
“MRI depth profiling of drying alkyd coatings with different catalyst”  
15:15 – 15:45 hrs  Break

Mechanical Properties  
15:45 – 16:30 hrs  S. Hofacker (Bayer Materials Science, Germany)  
“Hybrid coating systems”  
16:30 – 17:00 hrs  D. Stahlberg (Scania CV AB, Sweden)  
“Properties of coatings in load carrying constructions”  
17:00 – 17:30 hrs  A. Poppe (BASF Coatings AG, Germany)  
“Scratch resistant automotive coatings - Correlations between field tests and mechanical properties”  
18:30 – 22:00 hrs  Buffet Diner with Poster presentations
Coatings Science International
Conference Program

Wednesday 29 June 2005

Waterborne

8:45 – 9:30 hrs  P.J.A. Geurink (Akzo Nobel, The Netherlands)
“A complete new design for waterborne 2-pack PUR coatings with robust application properties”

9:30 – 10:00 hrs  M. Tielemans (Surface Specialities, Belgium)
“Colloidal stability of surfactant-free radiation curable polyurethane dispersions”

10:00 – 10:30 hrs  K. Rissa (Tampere University of Technology, Finland)
“Effect of kaolin content on structure and functional properties of water-based coatings”

10:30 – 11:00 hrs  Break

Chemistry

11:00 – 11:30 hrs  R. Hesselmans (Stahl International, The Netherlands)
“Polycarbodiimide crosslinkers”

11:30 – 12:00 hrs  F. Micciche (Agrotechnology and Food Innovations BV, The Netherlands)
“Towards biobased alternatives for VOC and cobalt in alkyd paints”

12:00 – 12:30 hrs  R.P. Klaasen (Akzo Nobel Decorative Coatings, The Netherlands)
“Fast drying cobalt-free high solids alkyd paints”

12:30 – 13:00 hrs  B. de Ruiter (TNO Industrial Technology, The Netherlands)
“Two-step curing processes for coating application”

13:00 – 14:00 hrs  Buffet Lunch

14:00 – 18:30 hrs  Social Program visit Amsterdam
Coatings Science International Conference Program

Thursday 30 June 2005

Corrosion and Protection  Chair: G. Bierwagen
8:45 – 9:30 hrs  W.J. van Ooij (University of Cincinnati, USA)
“Novel environmentally friendly coatings for corrosion protection of metals based on silane chemistry”

9:30 – 10:00 hrs  A. Hoiland (DSM Coating Resins, The Netherlands)
“Increasing the durability of wood by reactive vegetable oils”

10:00 – 10:30 hrs  M. Zielecka (Industrial Chemistry Research Institute, Poland)
“Silicone-containing polymer matrix as protective coating - properties and applications”

10:30 – 11:00 hrs  Break

Functional Coatings  Chair: W. Lenhard
11:00 – 11:45 hrs  P. Uhlman (Institute of Polymer Research Dresden, Germany)
“Surface functionalization by smart coatings: stimuli responsive binary polymer brushes”

11:45 – 12:30 hrs  D.C. Webster (North Dakota State University, USA)
“Use of high throughput methods in the design of coatings having minimally adhesive surfaces”

12:30 – 14:00 hrs  Buffet Lunch

14:00 – 14:45 hrs  Key-note Lecture
G. Pilcher (Akzo Nobel Coatings Inc. USA)
“Challenge 2005 and Beyond: Recognition, Transformation and Profitable Use of Innovative Thinking”

14:45 – 15:15 hrs  M. Wales (Reactive Surfaces Ltd., USA)
“Biocatalytic paints and coatings”

15:15 – 15:45 hrs  Break

Polymerization  Chair: W. Bremser
15:45 – 16:30 hrs  S. Rimmer (Univeristy of Sheffield, UK)
“New functional polymers with potential in coating technologies”

16:30 – 17:00 hrs  B. Göbelt (BYK Chemie, Germany)
“The molecular weight distribution in living polymerization - The narrower the better?”

17:00 – 17:30 hrs  V. Carlier (Coatings Research Institute, Belgium)
“Plasma polymerization techniques: promising possibilities for the paint industry – A literature overview”

19:00 – 22:00 hrs  Conference Diner
Friday 1 July 2005

UV
8:45 – 9:30 hrs  C. Decker (Université de Haute Alsace, France)  
“High performance UV-cured protective coatings”
9:30 – 10:00 hrs  B.K. Kim (Pusan National University, South-Korea)  
“Design and properties of UV cured polyurethane dispersions”
10:00 – 10:30 hrs  J.P. Stropp (Dupont Performance Coatings GmbH & Co KG, Germany)  
“UV curing systems for automotive refinish applications”
10:30 – 11:00 hrs  M. Tian (NanoTechnology Instruments Europe BV, The Netherlands)  
“Coatings property analysis with AFM techniques”

11:00 – 12:00 hrs  Break

Various Topics
12:00 – 12:30 hrs  R. Nussbaum (IKEA of Sweden, Sweden)  
“Present and future requirements on furniture coatings: An end users perspective”
12:30 – 13:15 hrs  C. Gurtler (Bayer Materials Science AG, Germany)  
“1K-PU systems revisited: New insights, new blocking agents”
13:00 – 13:15 hrs  Closing + Awards Presentation
13:15 – 14:00 hrs  Buffet Lunch
Local Organization:

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

Contact:
congresoffice@tue.nl
www.coatings-science.com