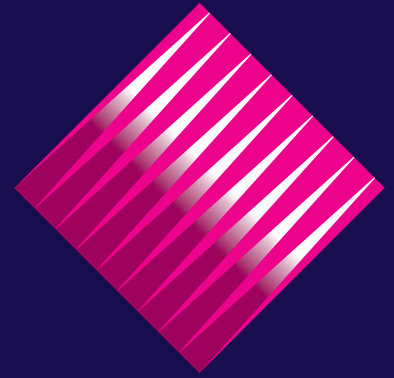


RadTech Europe 07

EUROPE'S EVENT FOR UV/EB CURING



UV/EB – The Natural Choice



November 13 – 15, 2007 in Vienna/Austria

Conference Programme

The official event of

**RADTECH
RADTECH
RADTECH
EUROPE**

The association for the
promotion of UV & EB
curing technology



Welcome to RadTech Europe 2007 in Vienna

The Event for UV/EB Curing!



In today's environment, you more than ever need an advantage to win the competitive game we are all confronted with. Over the past years, the UV/EB technology has proven to offer a sustainable edge and all market reviews also foresee a continuous, above average growth for the coming years. Today, the UV/EB technology is an established technology with evidenced features which constitutes this years motto "UV/EB – The Natural Choice".

I invite you to come and explore the benefits this technology has to offer. At the upcoming RadTech Europe 2007 Conference & Exhibition you will have lots of opportunities to learn from innovative UV/EB applications. During these three days, you will be able to meet all the main players in this growing industry, which will give you the possibility to return home with a full load of contacts and new ideas.

The Conference Programme Committee has taken great care in setting up a conference programme that presents the latest developments of interest both to new potential as well as experienced users of UV/EB technology. I would like to take the opportunity to mention a couple of highlights that you can expect in this year's event: The brand new session "Ink Jet/Digital" which has been included as a premiere due to the growing interest of the ink industry as well as the especially designed enduser sessions on "Wood Based Panels for Furniture and Flooring" and "Printing, Varnishing and Laminating for the Packaging Industry". In addition the "HSE – Safe Use of UV/EB Technology" session, which captures increasing interest due to the growing impact of health and safety regulations, the announcement of the winners of the "Innovation Awards" which demonstrate the innova-

tion potential available within this technology, and finally the adjacent exhibition, with all major suppliers of the industry exhibiting. This exhibition serves as a meeting place for you to update your knowledge on the latest product and equipment developments.

All in all, the RadTech Europe 2007 is the ideal forum for all parties involved in this technology to meet and have a direct dialogue to exchange wishes and understanding on needs and benefits on how to use the UV/EB technology in a safe and effective way.

I'm looking forward to meeting you in Vienna, not only for three days of intensive networking but also to enjoy this beautiful city, which is easily accessible at a low-cost and has something to offer for everyone!



Philippe Goethals
President Radtech Europe

WWW.COATINGS.DE/RTE

The Conference Programme Committee

Chairman: Dr. David Helsby, Rahn AG, CH · **Programme Committee Members:** · Massimo Cattaneo, Lamberti S.p.A., IT · Hervé Cavalié, Sartomer Europe, FR · Andrew R. Koch, Ashland Performance Materials, US · Prof. Jean-Pierre Fouassier, University of Mulhouse, FR · Françoise Godts, Cytec Surface Specialties, BE · Alan Hudd, Xennia Technology, GB · Jennifer Joyce, XSYS Print Solutions, SE · Dr. Kerstin Lindell, BonaKemi, SE · Dr. Volker Linzer, Hartmann Druckfarben GmbH, DE · Dr. Keith Phillips, Trespac Technology Centre, NL · Dr. Susanne Piontek, BASF Coatings AG, DE · Bernward Roettgers, Fusion UV Systems, DE · Henri Strub, Cray Valley, FR · **Consultants:** Dr. Bernd Brandl, IST METZ GmbH, DE · Luc Nuijten, RadTech Europe, BE · Dr. Stephan Peeters, Cytec Surface Specialties, BE

Programme at a Glance

Tuesday, 13 November 2007

from 8.00h Conference Registration

10.00 – 12.30h Opening & Plenary Session

12.30 – 14.00h Luncheon

14.00 – 17.15h

Session 1: HSE – Safe Use of UV/EB
Technology

Session 2: Application Properties

Session 3: Equipment

9.00 – 18.00h Exhibition open

Wednesday, 14 November 2007

from 8.00h Conference Registration

9.00 – 12.15h

Session 4: Wood & Surface Performance

Session 5: Graphic Arts

Session 6: Coatings & Applications in the
Automotive & Metal Industry

12.15 – 14.00h Luncheon

14.00 – 17.15h

Session 7: Wood Based Panels for
Furniture & Flooring

Session 8: Printing, Varnishing & Laminating
for the Packaging Industry

Session 9: New Synthesis Routes,
Chemistries & Structures

9.00 – 18.00h Exhibition open

18.00h Networking Cocktail

Thursday, 15 November 2007

from 8.00h Conference Registration

9.00 – 11.50h

Session 10: Advances in Photochemistry &
Polymerisation (Part 1)

Session 11: Ink Jet / Digital

Session 12: Innovations (Part 1)

11.50 – 13.00h Luncheon

13.00 – 15.50h

Session 13: Advances in Photochemistry &
Polymerisation (Part 2)

Session 14: Adhesives

Session 15: Innovations (Part 2)

9.00 – 16.00h Exhibition open

End of Conference

Vienna



Besides its outstanding reputation as conference venue, Vienna is Europe's number one city for art and music lovers, attracting gourmets with fine food and wine, fascinating fans of the imperial age and inspiring trend scouts for fashion, design and music. We offer you guided tours to discover the many facets of this metropolis – in cooperation with our travel agency Imperial Tours:

12 November 2007 Half Day Tour

13.00 h

Historical City Centre and Viennese Coffee House

The Half Day Tour shows the most important sights of Vienna along the Ringstrasse with its magnificent and impressive buildings such as the State Opera House, National Museums, Parliament, the Burgtheater, the University and the Votivkirche. At the Hofburg Palace – the former winter residence of the Habsburg family we invite you to a short stroll through the city center.

15.30 h

Café Demel



Foto: WienTourismus, Wolfgang Simlinger

Both tours end at the traditional **Café Demel** with a relaxed get-together. On several floors the confectioners produce the typical Demel specialities as they have been doing for over 200 years; these include cream cakes, the finest tea scones and cakes as well as home-made confectionary, all precisely and skilfully hand-made.

14 November 2007 Full Day Tour

9.00 h

Historical Vienna

The Full Day Tour shows the most important sights of Vienna; The Hofburg Palace, the Ringstrasse with its magnificent and impressive buildings such as the State Opera House, National Museums, Parliament, the Burg-theater, the University and the Votivkirche, as well as the Karlskirche and the Vienna Philharmonic Orchestra. As a highlight of the tour an interior visit of the famous Schönbrunn Palace with its lavishly decorated rooms shows the glamour of past times.

12.30 h

Lunch at restaurant "Zum Huth"

Traditional Viennese restaurant with traditional dishes but served in a more up to date style. Consumption à la carte from a small menu, individual payment on site.

14.00 h

Walking tour of the old city

We take you on a stroll through the old city, seeing selected points of interest. You will discover some of the delightful features of Vienna and visit parts of the city you could not get to see without being pointed it out. This tour takes you through various epochs from the middle ages up to the present time.

15.30 h

Café Demell

Please see page 11 for more details about the sight-seeing tours. If you want to participate in these tours, just fill out the according part on the hotel reservation form.

Sponsors of RadTech Europe 2007

RadTech Europe 2007 Conference & Exhibition expresses its thanks to all sponsors and supporters who are generously contributing to the success of RadTech Europe 2007.

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Measure of Excellence

The Exhibition

The RadTech Europe exhibition is the only industry event highly focusing on UV/EB technology. All major UV/EB suppliers of the industry will be present, making the exhibition a unique meeting place for you to update your knowledge on the latest product developments and innovations. For a detailed overview on who is exhibiting visit www.coatings.de/rte.

Admittance to the exhibition is free for all conference delegates!

Paul Dufour Award

Papers presented at the RadTech Europe Conferences are always of high scientific and/or technical standard. Chosen by the Conference Programme Committee, the best paper of the RadTech Europe 2007 Conference will be honoured with the Paul Dufour Award during the Opening & Plenary Session on Tuesday, 13 November 2007. The award is dedicated in honour of Paul Dufour, the founding father of RadTech Europe, who regrettably passed away in 2002.

3rd Awards for Innovation Competition

Designed to recognise and celebrate innovative utilisation of UV/EB technology in diverse markets, this event is intended to build upon the immense success of RTEs 1st and 2nd Awards for Innovation Competition held in Berlin and Barcelona. Open to all companies utilising UV/EB technology, the Competition was designed to recognise and encourage innovative companies which manufacture products using radiation curing technology, while promoting the future development of UV/EB technology by highlighting its many benefits, including improved product quality, faster processing, extremely low VOC emissions etc. Entries will once again be judged according to three categories: (1) Printing & Packaging, (2) Automotive & Specialty, and (3) Industrial Coatings & Adhesives. The Award winners will be announced and honoured during the Opening and Plenary Session on 13 November 2007.

10.00 h – 12.30 h

Opening & Plenary Session

Chairman:

David Helsby
RadLab AG, CH

The Plenary session reflects the conference theme: UV/EB – The natural choice. The speakers will highlight the theme of how UV/EB curing has become favourably viewed by the authorities and agencies in Europe and the natural choice in many industries. The first presentation, by a representative of the European Commission, will show that the support of the European authorities is a key factor for the successful introduction of UV/EB technology into new industries and the continued growth within our traditional markets. This will be followed by presentations demonstrating the ecological benefits and energy savings of UV/EB and finally how these factors are reflected in the market overviews.

The Integrated Pollution Prevention and Control

Paul Tempany, European Commission, ES

Increase of Energy Efficiency of UV Curing Systems

Dirk Jägers, IST METZ GmbH, DE

The UV/EB European Market: Opportunities and Worries

Renato Bottacchiari, Lamberti S.p.A., IT

UV/EB Market Trends in North America – A Global Perspective

David Harbourne, Fusion UV, US

Prospects and Perspectives on the Asian Radiation Curing Industry

Philippe De Micheli, Cytec Surface Specialties, BE

14.00 h – 17.15 h

Session 1: HSE – Safe Use of UV/EB Technology

Chairman:
Françoise Godts
Cytec Surface Specialties, BE

Health, safety and environment (HSE) features are of considerable importance for the whole UV/EB production chain and the impact will even grow within the next years. Manufactures, suppliers and end-users have to respond to current and emerging chemical regulations like REACH, GHS and food contact legislation. The speakers from research institutes and industry will give a concise overview about all relevant current and future legislation. The consequences for the coating and printing sector along with the industries commitment in terms of “responsible care” will be demonstrated.

How to Demonstrate Compliance with Food Packaging Applications

Dr. J.R. Veraart, Keller and Heckman, BE

Guide to the Classification and Labelling of UV/EB Acrylates

Dr. Jürgen Schrot, Bayer MaterialScience AG, DE

Screen Printing UV Exposure Scenarios

Dr. Martin Schless, German Printing Ink Industry Association, DE

Biological Monitoring for Solvents and Multifunctional Acrylate Vapours in SME Printing Factories

Dr.-Ing. Bernhard Küter, Berufsgenossenschaft Druck und Papierverarbeitung, DE
Dr. Gerard Edmondson, Envirocare Technical Consultancy, GB

Beyond REACH: Impact on Downstream Users and Consumers

Dr. Gerhard Gribl, Unilever, AT

Recycling of Paper with UV Inks and Coatings

Jori Ringman, CEPI Confederation of European Paper Industries, BE

14.00 h – 17.15 h

Session 2: Application Properties

Chairman:
Hervé Cavalié
Sartomer Europe, FR

Because of the growth in novel, high demanding and specific end uses of UV and EB applications, a need has been identified to help optimising the performances of the systems. In this session on application properties, starting from the stand point of the formulator but also with the eye of the final end user, the papers will cover the different technologies available, e.g. radical, cationic or water borne UV, for the different end uses, for instance wood, plastic and metal.

Synergy or Enemy – A Basic Dilemma

Paul Kelly, SI Group, GB

A New Method for Analyzing Double Conversion as a Function of Film Thickness for Model Formulations and Commercial Formulations

Rong Bao, Fusion UV Systems, US

Process Design of (high Tg) UV Coatings: PTE Diagrams

Dr. Reinhold Schwalm, BASF AG, DE

Effects of Humidity on Cationic Curing

Prof. R.S. Davidson, Citifluor, GB

The New Frontier: Waterborne UV Coatings for Plastics

Dr. Jan Weikard, Bayer MaterialScience AG, DE

The Characteristics of Whiteboard Produced by EB Radiation Curing Incontinous Coil Coating Line

Jonghyun Yoon, Dongbu Steel, KR

14.00 h – 17.15 h

Session 3: Equipment

Chairman:
Bernward Roettgers
Fusion UV Systems, DE

A perfect radiation curable process can only be achieved if all participants; chemistry supplier, machine builder, end user and UV/EB equipment supplier work in close collaboration. This is especially important for new and emerging processes. Like everywhere, the process of radiation curing is an ongoing development. This session will present some of the latest techniques in the design and use of curing equipment; for example, the emerging technology of UV-LED's, recent advances in providing inert curing atmospheres and laboratory radiation curing equipment. In addition, the session will cover the continuing discussions regarding UV measurement methods and 3D simulation.

UV-LEDs – A Survey of New Technologies

Dr. Bernd Brandl, IST METZ GmbH, DE

Emergence of Next Generation UV Light Sources with Integrated Inerting Techniques

Dr. Alex Schreiner, Phoseon Technology Inc., US

Simulation Software for an Efficient Layout of 3D-UV Curing Processes

Dr. Klemens Rother, Cadfem GmbH, DE

Advanced Methods of Radiachromic Radiometry

R.W. Stowe, Fusion UV Systems Inc., US

Analysis of UV Measurement Issues and New Electronic and RFID Technology Applied to Radiometers

Richard Little, Jenton International Ltd., GB

New Multi Purpose Laboratory Electron Beam Equipment

Bengt Laurell, Electron Crosslinking AB, SE

For the latest programme including abstracts of all papers, co-authors, posters, any new speakers or changes to the schedule please visit www.coatings.de/rte



9.00 h – 12.15 h

Session 4: Wood & Surface Performance

Chairman:

Dr. Keith Phillips
Trespa Technology Centre, NL

The benefits of using radiation cured coatings on wood products are now well established. This session will explore new developments in formulation and the use of additives which improve the performance and/or processability of these coatings. There will be a particular focus on the use of nano-particles to improve surface properties.

UV Curable Polyurethane Dispersions: A VOC Compliant High Performance Solution for Indoor and Outdoor Wood Coatings

Dr. Marc Heylen, Cytec Surface Specialties, BE

UV Pigmented Wood Finishes Based on Waterborne Acrylic Dispersions

Jordi Albalat, Cray Valley Ibérica, ES

Influence of Wetting and Dispersing Additives on Rheology and Efficiency of Silica Matting Agents

Petra Lenz, BYK-Chemie, DE

Spray and Flow Coatings Based on UV-Curable Nanocomposites

Reiner Mehnert, Cetelon Nanotechnik GmbH, DE

Fully Scratch Resistant UV-Coatings Achieved by Nano-Particles, High Functional Acrylates and Different Curing Conditions

Klaus Menzel, BASF AG, DE

UV Curing and Matting of Nano/Micro Composite Materials

Dr. Frank Bauer, Leibniz Institute of Surface Modification (IOM), DE

9.00 h – 12.15 h

Session 5: Graphic Arts

Chairman:

Jennifer Joyce
XSYS Print Solutions, SE

The use of UV and EB curing products within the graphic arts sector is continuing to grow, and find new application areas. Food packaging is one area that is increasing in interest, and introduces a variety of new challenges to the formulator. This session will focus on new developments within predominately oligomer and photoinitiator chemistries, and in particular their potential use for developing products with food packaging compliance.

Low Odour/Low Extractable UV/EB Curable Acrylates for Food Packaging Applications

Thierry Randoux, Cytec Surface Specialties, BE

New Raw Materials for Low Emission Coatings and Inks Formulations

Sebastien Villeneuve, Ciba Specialty Chemicals, CH

The Use of Amine Synergists for Low Odor and Low Migration Applications

Joshua Oliver, Sartomer Europe, FR

Effects of Oligomer and Diluent Selection on the Performance of EB Cured Coatings

John K. Braddock, Rahn USA Corporation, US

Low Migration Photoinitiators for UV Curing Metallic Inks

Richard Ely, Wolstenholme International Ltd., GB

Practical Approach Predicting Lithographic Properties of UV Curing Offset Inks in Laboratory Scale

Heikki Hohtari, Hohtari Consulting, NL

9.00 h – 12.15 h

Session 6: Coatings & Applications in the Automotive & Metal Industry

Chairman:

Dr. Susanne Piontek
BASF Coatings AG, DE

The session covers a wide range of UV applications in the automotive and in the metal industry. In the first part innovative technologies will be discussed which can open up new opportunities for automotive OEM as well as for the suppliers market and for refinish applications. The second part refers to direct-to-metal UV coatings, which are of special interest in the metal industry, and to Coil Coating, a process that seems to be well suited for the UV technology. For all fields basic research is an important issue. The session will end with an interesting example.

Advancements in UV PlasmaCure™ technology

Tunja Jung, Ciba Specialty Chemicals, CH

UV Film Technology as an Alternative to Conventional Coating Application

Dr. Nick Gruber, BASF AG, DE

Photoinitiator-Free Daylight Curing of Maleimide Functional Coatings

Leo G.J. van der Ven, Akzo Nobel Car Refinishes, NL

Direct-to-Metal UV Coating Application for UV Curing

Kevin Joesel, Fusion UV Systems, US

Development of Hybrid Thiol-ene/Cationic Dual Photo- and Thermally Curable Systems

Dr. Ricardo Acosta Ortiz, Centro de Investigacion en Quimica Aplicada, MX

Influence of Different Wavelengths on the Local Polymerization in UV Coatings

Stefan Pieke, University of Karlsruhe, DE



Poster Session

During the RadTech Europe 2007 Conference & Exhibition several technical posters will be presented directly in the exhibition area. At www.coatings.de/rte you will find the detailed and up-to-date overview about all poster presentations.

14.00 h – 16.50 h

Enduser Session

Session 7: Wood Based Panels for Furniture & Flooring

Chairman:

Dr. Kerstin Lindell
BonaKemi AB, SE

In this session the endusers perspective will be highlighted. The practical aspects of using radiation curable coatings in real life will be discussed. Application methods as low temperature UV curing, UV powder coatings and inerted UV tunnel for wood application will be presented. Specific input from end users with EB coatings for the use of laminate flooring will be given and how to achieve matt surfaces. This will be a useful session for present and potential users of radiation curable coatings in the wood coatings industry.

Achieving Low Gloss Surfaces in UV 100% Wood Coatings Systems

Paul Swan, Eastman Chemical, NL

Inerted UV Tunnel for Wood Applications

Géraldine Rames-Langlade, Air Liquide, FR

Coating of Decorative Papers with EB-Topcoats for the Use as Laminate Flooring

Bruno Dätwyler, Polytype Converting AG, CH

Low Temperature UV Curing for Heat Sensitive Substrates

David Pelling, Adphos_Eltosch, DE

The Effect of UV Powder Functionality on the Network Formation

Francisc Williams, Cray Valley, ES

14.00 h – 17.15 h

Enduser Session

Session 8: Printing, Varnishing & Laminating for the Packaging Industry

Chairman:

Dr. Volker Linzer
Hartmann Druckfarben GmbH, DE

Energy curing of printing inks, varnishes and laminating adhesives are rapidly gaining importance in the packaging industry, especially for flexible food packaging. The UN Kyoto protocol, now in-force, and the EU directive limiting the use of solvents as of 2007, oblige the industry to find alternatives to the use of solvent based chemistries. The presentations are enduser oriented and focus on the practical aspects and the economics of using EB and UV technology for printing and laminating flexible films. Also new technologies, safer in terms of offset and through migration in the food packaging industry are presented and will be discussed in view of the EU directives.

Influence of Electron Beam on Some Polymeric Substrates Used in Flexible Packaging

Imtiaz Rangwalla, Energy Science Inc., US

UV/EB Laminating Technology for Packaging Applications

Dr. Stephen Lapin, Ashland Inc., US

UV-Printed Food Packages – The Legal and Technical Status 2 years after the ITX-Crisis

Monika Rüter, FABES, DE

Further Developments on Polymeric Photo-initiators for Use in Printing Inks

D. G. Anderson, Lambson Ltd., GB

Innovative UV Inert System – Benchmark for UV Newspaper Printing

Lukas Hahne, Eltex Elektrostatik GmbH, DE

Securing Ink Adhesion in UV Printing Flexography for Flexible Packaging

Panayotis Cocolios, Air Liquide, FR

14.00 h – 17.15 h

Session 9: New Synthesis Routes, Chemistries & Structures

Chairman:

Henry Strub,
Cray Valley, FR

Introduction of new materials is expected to open new opportunities for further growth of radiation curing technology. This includes new resin and diluent chemistries, photoinitiators, additives and their combination. In this session, some trends in the development of new resin structures or new synthesis routes and the design of new photoinitiators will be discussed. These are door openers for new applications or new performances of Radcure coatings.

New UV-Curable High Refractive Index Oligomers

Dr. Igor Khudyakov, Bomar Specialties, USA

Radiation Curable Hyperbranched Polyester Acrylates

Jeffrey Klang, Sartomer, USA

Novel Acrylated Building Blocks for UV Curable Polyurethane Dispersions

Henrik Bernquist, Perstorp Specialty Chemicals, SE

UV-Curable Polyurethane Dispersions

Erwin Honcoop, Uniqema, NL

Synthesis and Evaluation of Eosin-based Photoinitiators with Improved Migration Stability

Monika Schuster, Vienna University of Technology, AT

Singlet Oxygen Reactive Components for Radiation Curable Formulations

Michael Höfer, Vienna University of Technology, AT



For the latest programme including abstracts of all papers, co-authors, posters, any new speakers or changes to the schedule please visit

www.coatings.de/rte

9.00 h – 11.50 h

Session 10: Advances in Photochemistry & Polymerisation (Part 1)

Chairman:

Prof. Jean-Pierre Fouassier
Ecole Nationale Supérieure de Chimie
de Mulhouse, FR

The design of high performance photopolymer materials is based on the development of efficient photoinitiating systems and adequate UV- or EB- curable formulations. Experimental and theoretical mechanistic studies on the photochemical and chemical processes help in the understanding of the reactivity of these systems and thereby improve the curing efficiency. Properties of the cured coatings are also largely dependent on the chemistry of the systems.

Initiating Radicals: Generation, Detection and Reactivity

Prof. Xavier Allonas, University of Haute Alsace, FR

Photoinitiators with Bathochromic Shift

Prof. Robert Liska, Vienna University of
Technology, AT

Novel Photolatent Amines: Expanding the Scope of Photolatent Base Technology

Dr. Kurt Dietliker, Ciba Specialty Chemicals, CH

Photopolymerization in the Presence of Ionic Liquids

Dr. Ewa Andrzejewska, Poznan University of
Technology, PL

Self-Initiation of UV Curing Reactions with Brominated Acrylates

Dr. Tom Scherzer, Leibniz Institute of Surface
Modification (IOM), DE

9.00 h – 11.50 h

Session 11: Ink Jet/Digital

Chairman:

Alan Hudd
Xennia Technology, GB

During the last decade inkjet has enjoyed considerable success and there has been a proliferation of new and diverse industrial applications. Many of these advances can be attributed to the introduction of UV ink technology into inkjet fluid and system design. The robust performance and benefits afforded by UV, coupled with the flexibility and accuracy of digital printing is proving to be a compelling and exciting proposition. Inkjet is fast becoming the preferred printing and deposition technology for a wide variety of industrial decorative, packaging, coating and functional material deposition processes. In this session we attempt to encapsulate these developments by highlighting some important technical requirements for inkjet and UV technology to succeed and describe some interesting and highly novel applications.

Developments of Solid State UV Light Sources for Inkjet Printing Applications

Robert Karsten, Phoseon Technology Inc., GB

Advanced Photoinitiator Solutions for UV Ink Jet Applications

Dr. Stéphane Biry, Ciba Specialty Chemicals, CH

A Digital Solution To Formulate For Industrial Inkjet Market

D.S. Nagvekar, Hexion Specialty Chemicals, US

Digital Printing of Conductive Features for Printed Electronics and Display Applications

Dr. Philip Bentley, Conductive Inkjet Technology, GB

UV Curable Inks for Thermal Inkjet Technology (TJI), Challenges and Opportunities

Dr. Natasha Jeremic, Xennia Technology Ltd., GB

9.00 h – 11.50 h

Session 12: Innovations (Part 1)

Chairman:

Massimo Cattaneo
Lamberti S. p. A., IT

Innovation is the engine of the life for the future generation and a distinctive sign of the progress of the human activity. As for the long and consolidated tradition RadTech takes in great consideration this job which distinguished our association as one of the most productive and innovative of several sectors and applications. Even in this edition we are going to present valuable studies which confirm the value of researchers and speakers.

PerFluoroPolyEther (Meth)Acrylates: New Class of UV-Curable Resins

Tania Trombetta, Solvay Solexis, IT

UV and EB Curing of Unique Water Compatible Oligomers onto Cellulosics, Particularly a Novel Banana Ply Paper

Prof. John L. Garnett, Radcure Inc., AU

UV Cationic New Reactive Material Technology

John Cunningham, IGM Resins Ltd., GB

New Visible Light Photoinitiators for Dental Materials

Beate Ganster, Vienna University of Technology, AT

UV-Curable Electrically Conductive Flexo Ink

Rudie Oldenzijl, Acheson Colloids, NL



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www.coatings.de/rte

13.00 h – 15.50 h

Session 13: Advances in Photochemistry & Polymerisation (Part 2)

Chairman:

Prof. Jean-Pierre Fouassier
Ecole Nationale Supérieure de Chimie
de Mulhouse, FR

Photochemical Reaction and Physical Property of Certain Novel Dendritic

Prof. Tadatomi Nishikubo, Kanagawa University, JP

Chain-Propagation in Photopolymerization of Difunctional Acrylate and Methacrylate Monomers

Prof. Masamitsu Shirai, Osaka Prefecture
University, JP

Preparation and Characterization of Hybrid Organic-Inorganic Nanostructured UV-Cured Coatings

Dr. Marco Sangermano, Politecnico di Torino, IT

Novel Electron Transfer Photoinitiators for Free Radical Polymerization

Prof. Jerzy Paczkowski, University of Technology
and Life Science, PL

Organometallic Complexes as Initiators for the UV Printing Inks

Jan Valis, University of Pardubice, CZ

13.00 h – 15.50 h

Session 14: Adhesives

Chairman:

Andrew R. Koch
Ashland Performance Materials, US

The world of adhesives is in a constant state of flux. The drive for increased productivity, with 'greener' technology and improved performance, is the key to the growth of this industry. This is driving the technology away from solvent towards UV and EB curing technologies.

Conductive UV Curable Adhesives for Printed RFID Structures

Dr. T. Kowalik, Fraunhofer IFAM, DE

Ink Bonding Properties of Electron Beam Cured Adhesive Laminates for Flexible Packaging

Stephen Lapin, Ashland Performance Materials, US

Photorheometry: A Powerful Tool for Radcure Applications

Joel Schall, Henkel Corporation, US

Print-Applied UV-Curable Pressure Sensitive Adhesive for Industrial Graphics Requiring High Temperature and Chemical Resistance

J. Warmkessel, Ashland Performance Materials, US

Influence of Photoinitiator's Architecture on the Shrinkage of Acrylic PSA

Dr. Roland Milker, ChemCycle Bitterfeld GmbH, DE

13.00h – 15.50 h

Session 15: Innovations (Part 2)

Chairman:

Massimo Cattaneo
Lamberti S. p. A., IT

UVCOAT: Durable and Innovative Finishing of Textile Using UV-Technology

Prof. Dr. Marc Van Parys, University College of Gent, BE

UV Technology for the Coil Coating Industry

Oliver Starzmann, IST METZ GmbH, DE

NIR Spectroscopy as Powerful Tool for Process Control in UV Curing

Dr. Tom Scherzer, Leibniz Institute of Surface
Modification (IOM), DE

Innovative UV-dose Indicator Formulations for Curing Control of Coatings

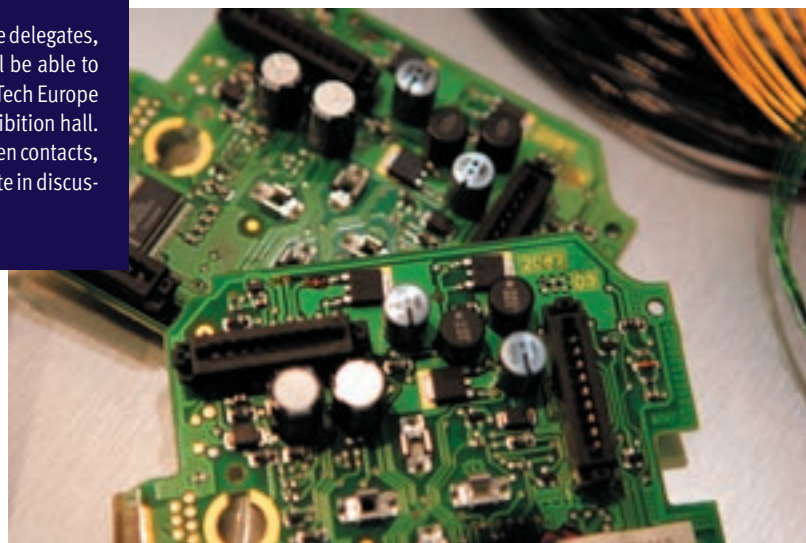
Dr. Katia Studer, Ciba Specialties Chemicals, CH

Organic-Inorganic Hybrid Coatings Based on Sol-Gel Chemistry and Photopolymerization Process

Céline Croutxé-Barghorn, University of
Haute-Alsace, FR

Networking Cocktail

RadTech Europe Association and Vincenz Network invite all conference delegates, visitors and exhibitors to an exclusive networking cocktail. You will be able to meet in a relaxed party atmosphere straight after the end of the RadTech Europe exhibition on Wednesday, 14 November 2007 at 18.00 h in the exhibition hall. The Networking Cocktail is an ideal opportunity to renew and strengthen contacts, cultivate business relationships, exchange latest news and participate in discussions. This will take place with some refreshment, beer and music.



Conference Registration Form

After 29 October 2007 delegates are asked to register on-site in Vienna. Please note that on-site registrations cannot be guaranteed as conference places are limited. Please use one form for each delegate! Please print all information!



Registration online at www.coatings.de/rte
or fax to +49 511 9910-279

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Member of RadTech Europe in 2007 yes no

Stated conference fees are net prices. 20% Austrian VAT has to be added. The total amount incl. 20% Austrian VAT must be paid by all delegates from any country. In some cases the VAT is refundable.

WWW.COATINGS.DE/RTE

Please check appropriate box(es). Fees in Euro. 20% Austrian VAT has to be added.	Standard Non-Member	Member RadTech Europe	University Members	Enduser*
Full Conference 13 – 15 November 2007	<input type="checkbox"/> 1.500 €	<input type="checkbox"/> 900 €	<input type="checkbox"/> 450 €	<input type="checkbox"/> 450 €
Tuesday, 13 November 2007	<input type="checkbox"/> 600 €	<input type="checkbox"/> 400 €	<input type="checkbox"/> 150 €	<input type="checkbox"/> 150 €
Wednesday, 14 November 2007	<input type="checkbox"/> 600 €	<input type="checkbox"/> 400 €	<input type="checkbox"/> 150 €	<input type="checkbox"/> 150 €
Thursday 15 November 2007	<input type="checkbox"/> 600 €	<input type="checkbox"/> 400 €	<input type="checkbox"/> 150 €	<input type="checkbox"/> 150 €

* Endusers are industrial users of UV/EB technology.

Methods of Payment

Payment must be included with the registration form. Confirmation of participation and invoice will follow by mail immediately.

Conference Fee plus 20% Austrian VAT _____

Credit Card

- Eurocard/ Mastercard American Express
 Visa Diners

Card Number

Expiry Date _____

Cardholder's Name _____

Card Verification Code (if necessary) _____

Date, Signature _____

Mail or fax completed form to:

Vincentz Network
Mareike Baeumlein
Plathnerstraße 4c
30175 Hannover
Germany
Fax +49 511 9910-279
mareike.baeumlein@coatings.de
www.coatings.de/rte

Keyword: RadTech Europe 2007

Hotel Reservation Form

Please print in capital letters!

Please return this form until 31 July 2007 latest to:

Imperial Tours GmbH & Co. KG Phone +43 1 535 69 70
Dr. Karl Lueger-Ring 8 Fax +43 1 534 11 202
1010 Vienna, Austria radtech2007@imperial-tours.com

Last Name First Name Title

Organisation

Accompanying Person: Last Name First Name

Address Postal Code

City Country

Phone Fax e-Mail

HOTEL RESERVATION ¹⁾

Arrival date Country

Phone Fax e-Mail

Hotels & Kategorie, distance to Messe Wien	Single room rate	Double room rate	Breakfast ²⁾
Vienna Hilton ***** 17 min by public transport	<input type="checkbox"/> € 165,00	<input type="checkbox"/> € 165,00	€ 25,00
Hotel Intercontinental ***** 22 min by public transport	<input type="checkbox"/> € 159,00	<input type="checkbox"/> € 179,00	€ 25,00
Vienna Marriott Hotel ***** 22 min by public transport	<input type="checkbox"/> € 150,00	<input type="checkbox"/> € 160,00	€ 24,00
Hilton Vienna Danube ***** 15 min by public transport	<input type="checkbox"/> € 120,00	<input type="checkbox"/> € 120,00	€ 25,00
Mercure Biedermeier ***** 20 min by public transport	<input type="checkbox"/> € 120,00	<input type="checkbox"/> € 140,00	€ 15,00
Hotel Lasalle ***** 15 min by public transport	<input type="checkbox"/> € 143,00	<input type="checkbox"/> € 163,00	included
Suitehotel Wien Messe *** 12 min by public transport	<input type="checkbox"/> € 95,00	<input type="checkbox"/> € 95,00	€ 8,00
Hotel Wien Messe *** 3 min walking distance	<input type="checkbox"/> € 104,00	<input type="checkbox"/> € 139,00	included

¹⁾ All mentioned rates are in Euro (€) per room and night, including all local taxes, service and VAT. Reservations will be handled on a "first come – first serve" basis. Imperial Tours reserves the right to confirm a higher/lower hotel category if the requested category is sold out already.

²⁾ Breakfast is indicated per person, per day

SIGHTSEEING PROGRAMME (for more details see page 3)

Date/Time	Tour	Price per person	Number of person(s)
Mon, Nov 12, 2007 – 13.00 h	Half day tour – Historical City Center and Coffee House	<input type="checkbox"/> € 35,00	_____
Wed, Nov 14, 2007 – 09.00 h	Full day tour – Historical Vienna and Coffee House	<input type="checkbox"/> € 69,00	_____

For all tours a minimum number of 20 participants is required. All tours are held in English and are subject to alterations.

TERMS OF CANCELLATION

All cancellations and changes must be addressed in writing to Imperial Tours. The following cancellation terms apply:

Hotel reservation: Hotel bookings can be cancelled free of charge before July 31, 2007. For cancellations after July 31, 2007 an administration fee of Euro 30,00 will be charged. For cancellations between July 31, 2007 and September 30, 2007 one night stay will be charged. For cancellations after October 1, 2007 and no-shows 100% of the value of the booking will be charged.

Tours: Tours can be cancelled free of charge before October 12, 2007. No refund can be made after that date.

Liability: Imperial Tours shall act as a mediator only and cannot be held responsible for any loss or damage incurred. The liability of transport and other service companies shall not be affected by the above. Only written agreements shall be valid. The place of jurisdiction shall be Vienna.

PAYMENT

Please send your full registration form to Imperial Tours, we will reconfirm all requested services and the exact amount due. Please arrange your payment – free of charge for beneficiary – according to the confirmation. After receiving your payment we will send you the invoice and hotel voucher(s). To guarantee the reservation full prepayment is required. All payments must be made in Euro (€). The following methods can be used, however, credit card payment would be preferred.

- A** Payment by bank transfer to the following account with the remark "free of charge for beneficiary", IMPERIAL TOURS, Raiffeisen Zentralbank Austria AG, Account No.: 1-00.409.730, Bank code 31000, IBAN: AT73 3100 0001 0040 9730, BIC: RZBAATWW
- B** Credit Card: Diners Visa Mastercard Amex

Please note that all bank fees have to be settled by the remitter

Card Holder

Card Number

Exp. Date

Date

Signature

Signature on files entitles Imperial Tours to debit your credit card with the amount due.

General Information

Venue

The RadTech Europe 2007 Conference & Exhibition will be held at:
Reed Exhibition & Conference Center
Messeplatz 1
1021 Vienna, AT
www.messe.at

Date

Conference & Exhibition:
13 – 15 November 2007

Organisers

Vincentz Network
Plathnerstr. 4c
30175 Hannover, DE
Tel.: +49 511 9910-273
Fax: +49 511 9910-279
mareike.baeumlein@coatings.de
www.coatings.de/rte

in cooperation with

RadTech Europe Association
c/o Lejeune Association Management
Laan Copes van Cattenburch 79
2585 EW The Hague, NL
Tel. +31 70 312 3916
Fax +31 70 363 6348
mail@radtech-europe.com
www.radtech-europe.com

RadTech Europe Membership

RadTech Europe is the European association which promotes the use of UV/EB curing technology for inks, coatings and adhesives. Members of RadTech Europe are companies with an essential relation to the technology of UV/EB curing. Raw material suppliers, formulators as well as endusers, consultants, organisations and sister associations are members of RadTech Europe Association. Detailed information about membership possibilities at www.radtech-europe.com.

Registration Procedures

Complete the Conference Registration Form on page 10, select payment method and return the form:

Vincentz Network
Mareike Baeumlein
Plathnerstr. 4c
30175 Hannover, DE
Fax: +49 0 511 9910-279
e-Mail: events@coatings.de
On-line: www.coatings.de/rte

After we have received the conference registration, delegates will be sent a written confirmation of participation and invoice in return, followed by

more details in due time. Conference materials (including badge, conference proceedings as CD, etc) will be ready for collection upon your arrival at the conference registration desk in Vienna. Registration desk will be open on each day of the conference from 8.00h.

After 29 October 2007 delegates are asked to register on-site in Vienna. Please note that on-site registrations cannot be guaranteed as conference places are limited.

Registration Fees

Full Conference,
13 – 15 November 2007 1.500 EUR
One Day Conference 600 EUR

Members of RadTech Europe, university members and endusers will get a discount on the conference registration fee. For further information see the registration form on page 10.

As all stated conference fees are net prices, 20% Austrian VAT has to be added. The total amount incl. 20% Austrian VAT must be paid by all delegates from any country. In some cases the VAT is refundable.

Fees include

- Admittance to the conference as reserved
- Conference Proceedings as CD
- List of Conference Delegates
- Permanent Exhibition Ticket
- Exhibition Catalogue
- Luncheons & Coffee Breaks
- Networking Cocktail

A CD with all presentations of the conference will be included in the conference fee.

Cancellations

In the event of cancellation, fees will be refunded in full if notification of cancellation is received by 2 October 2007. If notice of cancellation is received later, but not later than 16 October 2007, 50% of the conference fee will be refunded. The postmark date shall apply in all cases. Delegates who fail to attend without notifying the organisers or who cancel after 16 October 2007 will be liable for the full conference fee. Substitutions of delegates may be made at any time. Cancellations and changes should be notified in writing and will be confirmed by the organisers. Any fees to be refunded will be paid after the conference.



Conference Language

The RadTech Europe 2007 Conference & Exhibition will be held in English only.

Hotel Reservation

Hotel accommodation is not included in the conference fees. Reservations will be handled by our service partner Imperial Tours. Please complete the hotel reservation form on page 11 and mail or fax it directly to Imperial Tours. You will receive a written confirmation for your hotel booking.

Visa Information

International attendees who will need to obtain a visa for visiting Austria should contact the Austrian embassy or consulate in order to determine how to apply and the length of time required to process applications. The organiser has no influence over the issuance of visas.

Notice

Please note that photographs of delegates will be taken during the conference and may be used for promotional purposes. The address data are processed for customer service and information purposes in compliance with the German Federal Data Protection Law. Company's name, city and country might be published on the internet as reference for upcoming events.

Photographs

The photographs published in this brochure have been kindly provided by: WienTourismus, Wolfgang Simlinger; Vincentz Network, xxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxxxxx

Your Key Contacts

Conference & Exhibition
Vincentz Network
Mareike Baeumlein
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Fax: +49 511 9910-279
mareike.baeumlein@coatings.de
www.coatings.de/rte

Accommodation

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Dr. Karl Lueger-Ring 8
1010 Vienna, Austria
Tel.: +43 1 535 69 70
Fax: +43 1 534 11 202
radtech2007@imperial-tours.com
www.coatings.de/rte/accommodation

WWW.COATINGS.DE/RTE