



MONDAY
APRIL 13, 2009

Doubletree, Alsip IL

5:00 Registration / Cocktails

5:45 Speaker

6:45 Dinner & Meeting

\$30 members with reservations

\$35 non-members and walk-ins

CHEMISTS FREE!!! (see below)

Note
Venue
Change!

ADVANCES IN CROSSLINKING: Understanding Polycarbodiimides

Larry Grant, PICASSIAN POLYMERS

Water dispersible polycarbodiimide crosslinkers have been around for many years as crosslinkers for aqueous polyurethane and polyacrylate based coatings. Though it is generally assumed that polycarbodiimides function as crosslinkers by reacting with polymer-bound carboxylic acid functionality, just as do polyaziridines, the early generations of water dispersible polycarbodiimide crosslinkers, touted as polyaziridine replacements, failed to fulfill the high expectations that awaited them. We will speculate on the reasons why. Multifunctional polycarbodiimides that later appeared represented a great step forward by virtue of their ability to crosslink not only through reaction with carboxylic acid groups but also to simultaneously cure to form what is best described as an interpenetrating network independent of any direct reaction with the polymer binders, but these contained solvent. The latest development has been to produce fully aqueous and solvent-free polycarbodiimide crosslinkers for aqueous coatings. This paper will explore the chemistry and crosslinking behavior of this interesting and increasingly more important class of safe

and environmentally friendly crosslinkers.

LARRY GRANT has a Bachelor of Science degree in Chemistry from Salem State College and has been with Stahl USA for over 20 years. He has been Product Development Manager for most of that time and has split his time between Technical Sales Support for the Leather Division and internal product processing functions. His most recent appointment has been as Technical Manager of Picassian Polymers – which is a business unit of Stahl USA. Larry has been a past contributor of technical papers and presentations before coatings groups in USA and elsewhere. He most recently presented at various sectional meetings of the FSCT and is also a member of the ACS and the FSCT.

UV CURE COATINGS TECHNOLOGY: New Markets, New Oligomers and New Waterbased Polyurethane Dispersions

Mike Dvorchak, BAYER MATERIALSCIENCE, LLC

Ultraviolet (UV) curable coatings have experienced a 7-8 % growth in many coatings markets. It has become the current choice of formulators who are trying to meet the needs of government mandated VOCs and HAPs. Also the price of natural gas has led to a greater interest in UV technology due to the high cost of heating heavy substrates to cure and dry the conventional coatings. The presentation will spell out some of the new and unique areas that UV technologies are having their greatest thrust into the current coatings markets. The new market thrust areas will include: UV A composite repair, DTM applications, UV elastomers, UV A automotive clear coats and primers, UV A aerospace coatings, UV PUDs for plastic hard coats and soft touch applications. In addition, new UV A LED and fluorescent UV A light sources will be discussed.

MIKE DVORCHAK is Strategic Technology Manager for UV Cure Oligomers and PUDs at Bayer. He has received nine patents, written over 14 peer reviewed papers, and was a course instructor for polyurethane dispersions, polyurethane chemistry and spray application at the ICE Conference and High Solids Waterborne Conferences.

He has received the prestigious US Presidential Green Chemistry Award for work that was done on the ultra low VOC, HAPS 2K Water Polyurethanes that were developed for the wood coatings market. Mike has been on the Board of Directors of RADTECH NA since 2005.

Slate of Officers for CSCT Board 2009-2010

With our 2008-09 membership year winding down, we are looking ahead to the new year, with the task at hand of voting in new officers at our April 13, 2009 meeting.



The following candidates will be presented for a vote by the membership at the meeting:

Vice President: Robert Milano, Fitz Chem Corporation

Treasurer: Kevin DeRose, SpheroTech, Inc.

Membership Chair: Tom Whiting, G.R. O'Shea

Secretary: Michael Laing, Münzing

At Large Member 2009-2011: Natu Patel, Ace Paint Division

In addition to this slate of candidates, our bylaws state that any "Full Member" may make nominations for any elective office from the floor. A quorum of 20 members must be present to conduct a successful vote.

Board Members moving on to the next year of their elected term in 2009-2010 will be:

President: Jim Donovan, The Cary Company

1st Past President: Patrick Heraty, Evonik-Tego

2nd Past President: Mary Seffrood Milinko, Micro Powders, Inc.

At Large Member 2008-2010: Frank Muchna, Specialty Chemical Sales

Society Liaison Council: John Cox, Sherwin Williams



There's Still Time To Apply for a Scholarship!

Application Deadlines:

March 20, 2009 and April 3, 2009

Applications are now being accepted for **\$2,000 Merit**

Scholarship awards to children or grandchildren of current CSCT members that are pursuing an education in the physical sciences, and for the CSCT/CPCA **Joint Education Fund Scholarship**, regardless of the student's course of study.

NOTE: The deadline has passed for the Merit Scholarship, but you still have time to get your Joint Scholarship application in.

Did your son or daughter apply last year and not get selected?

- Or -

Did your son or daughter receive a scholarship last year?

Apply Again!! As long as the student meets the requirements of each award they may continue to apply each year until or unless selected. AND your student is eligible to apply for the scholarship they did not receive if they meet the requirements. (Previous Merit Scholarship recipients may apply for the Joint Scholarship and vice versa)

Applications are now available on our website at www.chicagocoatings.org.

Recipients will be announced at our April 2009 meeting.

Nominations now being accepted for the Warren C. Ashley Outstanding Service Award

This award is presented to an outstanding current CSCT member who has contributed to the advancement of the CSCT or the protective coatings industry of the Chicago area.

Nominations may be made by any 5 current members of the CSCT, and should accompany a resume of the achievements of the candidate. The nomination form is located on our website. www.chicagocoatings.org

Candidates will be voted on, by secret ballot, by the Executive Committee of the CSCT at our April 13, 2009 board meeting and the award will be presented at our annual awards banquet on Thursday, May 7, 2009.

Nomination Deadline: Friday April 3, 2009



Forward your nomination to:
Mary Seffrood Milinko, 1st Past President
Micro Powders, Inc.
1663 Apple Tree Lane
West Chicago, IL 60185
phone: (630) 484-3810
email: mmilinko@micropowders.com

Manufacturers are **Free** at our Technical Meetings

If you are in a technical role at a manufacturer of paint, coatings or inks you are the target audience for our monthly technical meetings. As such, you are cordially invited to join us for the evening **free of charge**.

That's a \$30-\$35 savings to you or your company each time you attend!

Simply email your reservation to rmilano@fitzchem.com

**Make your advanced reservation for the April 13 meeting by
Friday, April 10, 2009 and your name will be put in the hat for a \$25 gift card.**

New CSCT Members

Mr. Peter Berezuk / Aurora Specialty Textiles Co.

Dr. Joseph Valcho / Novolyte Technologies

Mr. Charles Cucuras / Nanophase Technologies

These members will be welcomed and their membership made official at our **April 13, 2009** meeting.

June 2-4, 2009

LOMBARD, IL

(just minutes from Chicago's O'Hare Airport)

Chicago Society for Coatings Technology Members

Special Pricing - \$395 Full Registration
(that's a \$200 savings!)

& \$250 One Day Pass (day of your choice)

Register online at www.coatingsforplastics.com

Use promo code "CSCTFULL" to receive discount of \$395 on Full Registration and promo code "1DAY" to receive special \$250 One Day Pass pricing.



12TH ANNUAL

Coatings for Plastics SYMPOSIUM™

A **bnp** EVENT
W.A.L.T.



The 12th annual Coatings for Plastics Symposium continues to be the original, trusted symposium for delivering information on emerging trends and technologies that impact the industry. An all-new program in 2009, a modest registration fee and convenient location make this symposium one you do not want to miss!

HIGHLIGHTED SESSIONS INCLUDE:

- **Improvements in Simulating Natural Sunlight Within Artificial Weathering Devices**
Presented by: Matthew McGraw, Atlas Material Testing Technology
- **Sustainability with UV Technology**
Presented by: Michael Kelly, Allied PhotoChemical Inc.
- **Surface Wear Testing on Decorated Plastics**
Presented by: Alan Jasnock, TABER Industries
- **Outdoor Weathering Must Verify Accelerated Testing**
Presented by: Michael Crowdon, Q-Lab Weathering Research Service
- **UV Curing, VOC, CO₂ Emissions & Energy Consumption**
Presented by: Kevin Joasal, Fusion UV Systems Inc.
- **Chemical Resistance of Waterborne Coatings**
Presented by: Stefan Pilotak, Buhler Inc.
- **Formulation Design of UV-Cured Coatings for Polycarbonate**
Presented by: Scott Farmer, Optical Dynamics
- **PVD Finishes**
Presented by: Jake Adams, Kolor Coatings
- **Fluoropolymer Coatings for Plastics**
Presented by: Winn Dardas, AGC
- **Coating Non conductors Electrostatically**
Presented by: ohn Owood, ITW Auto Finish
- **Vinyl Film with Powder Clear Top Coats**
Presented by: Robert Langlois, Alliance Surface Finishing Inc.
- **New Dimensions in Coatings for Plastics: Beyond Cosmetics and Durability**
Presented by: Paul Mills
- **100% Solids Sprayable Hardcoat**
Presented by: Marcus Hutchins, Cytec
- **High Performing UV Cure Hybrid Hard Coats**
Presented by: Steve Block, Dow Corning

WHY YOU SHOULD ATTEND:

- Learn the Latest Advancements & Technology in Coatings for Plastics
- Exclusive Networking Opportunities With the Industry's Leading Experts
- Exhibitor Showcase
- Affordable Registration Fee

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Evonik-Tego
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Aurora, IL 60502

CSCT 2008-2009 Calendar of Events

April 13, 2009 Monday	Crosslinkers presented by Picassian Polymers UV Technology presented by Bayer	DOUBLETREE Alsip, IL
Thursday May 7	CSCT ANNUAL AWARDS BANQUET	DRURY LANE Oak Brook
Monday July 27	CSCT GOLF & TENNIS OUTING	ST ANDREWS West Chicago
DOUBLETREE HOTEL: 5000 W 127th St. Alsip, IL 60803 (708) 272-4200 Located just west of I-294 on 127th Street		

LOOKING AHEAD—OTHER INDUSTRY EVENTS



April 27-29, 2009	FSCT: CoatingsTech Conference	Indianapolis, IN
May, 2009	AC Series: Marine Coatings	Virginia Beach, VA
June 2-4, 2009	PCI Magazine: Coatings for Plastics	Lombard, IL
June 17, 2009	CPIPC: Golf Outing	St. Andrews-West Chicago, IL
June 23-24, 2009	FSCT: Coatings for Plastics at NPE	Chicago/McCormick
Thurs, June 25, 2009	CPCA: Golf Outing	Local
Sep 22-23, 2009	AC Series: Wood Coatings	Charlotte, NC

Future Planning:

April 2010	American Coatings Show	Charlotte, NC
Fall 2010 or Fall 2011	CSCT: Windy City Coatings Course	Local
Spring 2011	CSCT: SYMCO	Local

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