



# Chicago Society *for* Coatings Technology



Member of the Federation of Societies for Coatings Technology since 1929

February, 2008

[www.chicagocoatings.org](http://www.chicagocoatings.org)

Volume 11, Issue 6

**MONDAY**

**FEBRUARY 4, 2008**

**Oak Meadows, Addison IL**

**5:00 Registration  
and cocktail hour**

**5:45 Speakers**

**6:45 Dinner & Meeting**

**\$30** members with reservations

**\$35** non-members and walk-ins

Romesh Kumar, CLARIANT CORPORATION

## Easy Dispersing Pigments for Industrial Coatings

**D**ispersing pigments is one of the most challenging part of paint manufacturing. Once the pigments are selected (based on chemistry, particle size etc) for a specific application, development of optimum mill base takes time (trial and error) to arrive at a stable, and consistent quality paint. Easy dispersing pigments (ED types) make it easy for a paint chemist to develop optimum mill bases to be used in durable paints. These pigments can be dispersed on a high speed mixer in a minimum time, and paint color and performance are not affected by otherwise aggressive milling process with regular media mills. There is significant improvement in gloss, and decrease in haze, some of the very desirable features of high performance coatings. In addition, the paint manufacturing output is highly increased.

**D**r. Romesh Kumar is Technical Manager in the Pigments & Additives Business Unit of Clariant Corporation. He specializes in pigments and additives for coatings, color-instrumentation and other aspects of pigment applications. Dr. Kumar

attended Laurentian University and Rensselaer Polytechnic Institute, where he obtained his Doctorate in Color Science. He is a member of the Inter Society Color Council, and Federation of Societies of Coatings Technology. In 2002, he received the Nickerson Award from ISCC.

Kent J. Clow, BASF

## New Insights Into the Freeze-Thaw Stability of Polymer Latexes

**F**reeze-thaw (F/T) stability of polymer latexes and waterborne coating formulations is of considerable industrial importance. Because of the environmental concerns and legislative measures, there has been in recent years a new driving force for the coatings industry to develop low- or zero- VOC (Volatile Organic Compounds) waterborne formulations. In a lower-VOC formulation (<50 g/l), the amount of antifreezes such as glycols that can be added has to be substantially reduced and is most probably no longer sufficient to impart F/T stability. It is a challenging goal that next-generation polymer latexes be improved in such a way that they are not only F/T stable themselves but are also capable of providing F/T stability to the coatings formulations which are based on them. Partly because of the lack of adequate microscopic techniques, fundamental aspects of F/T stability have not been studied extensively and are not well-understood. The objective of this work is to try to clarify and better understand the effects of key factors affecting the F/T stability of polymer latexes. In addition to the following viscosity changes during F/T cycles, we apply advanced cryogenic SEM technique coupled with high-pressure freezing apparatus, which allows us to visualize micro-structural changes and to study the effects of the freezing and thawing processes separately. Relationships between F/T stability and polymer and colloidal characteristics are analyzed. Cryogenic electron micrographs also provide information for understanding the cause of viscosity rise during the F/T processes in a F/T unstable latex.

**K**ent J. Clow holds a BA in Chemistry from University of Northern Iowa and an MBA from University of Phoenix. Since 1995, he has worked as a Technical Advisor for BASF in Charlotte, North Carolina in the Architectural Coatings Market. He is responsible for specific customers, distributors, and the exposure program. His previous work experience includes formulating and development at Diamond-Vogel Paints, Rust-Oleum Corporation, and Fuller O'Brien Paints. Kent's outside interest include serving as a Board member of the Charlotte Children's Choir, and Chairing the Musical Theaters Boosters for Northwest School of the Arts.

E-mail your dinner reservation to: [jimdonovan@thecarycompany.com](mailto:jimdonovan@thecarycompany.com) or sign up online at [www.chicagocoatings.org](http://www.chicagocoatings.org)

**2008  
Scholarship  
Application  
Deadline**

**MARCH 14**

Information &  
application available  
online  
[www.chicagocoatings.org](http://www.chicagocoatings.org)



*The Chicago Society for Coatings Technology  
recognizes the passing of friends and  
members in our Society and Industry*

## **Gerald R. Kraft**

**Retired President of Kraft Chemical  
50 Year Club Member of the CSCT**

Funeral services will be held on Friday, January 18.  
Gifts in his memory may be made to Temple Beth-El or  
Alzheimer's Association  
4709 Golf Rd., Suite 1015, Skokie, IL 60076



*What were you doing  
25 years ago?*

If you were a member of any  
Society for Coatings Technology  
25 years ago and are now a  
member of the CSCT you may  
qualify for the

**CSCT 25 Year club**

However, we need to know who  
you are.

Call or write:  
Evans Angelos  
417 Naperville Road  
Clarendon, IL 60514  
(630) 323-6474  
[evansangelos@comcast.net](mailto:evansangelos@comcast.net)

## **NEW MEMBERS**

**Paul Julich**  
Anderson & Associates

**Correction:**

Last month's new member should be

**Ms. Esin Busche**

The Dow Chemical Company, Buffalo Grove, IL

## **Mr. Victor M. Willis,**

*long time member and friend of the CSCT was  
recently hospitalized with a blood clot on the brain.*

**Thankfully,** *Vic is out of the hospital now.*

*He and wife Rita are at the Hartsfield Nursing Home  
503 Otis Bowen Drive, Munster, IN 46321*

*Cards and calls are welcome.*

*Vic is a CSCT Past President, 50 Year Club Member and  
Outstanding Service Award Recipient.*

*He also served for many years as our faithful historian.*

**Thinking of you, Vic!**

# Symco 2008

Thursday February 7  
Drury Lane, Oak Brook IL



## Clean and Green

### SPEAKER LIST

as of January 17, 2008

<b>Byk-Chemie</b>	Nano Additives
<b>Chemtura</b>	PUDS for Concrete Coatings
<b>Cytec</b>	High End Waterborne Binders for Air Dry Coatings
<b>Dow Chemical</b>	Blending VAE and Acrylic Latexes
<b>Elementis Specialties</b>	Color Viscosity Stabilizer
<b>Evonik-Tego</b>	Seed Oil Based Polyester Polyols for Coatings
<b>Hexion</b>	Innovative Curing Agents for Epoxy Resins
<b>ISP</b>	Alternative Fungicides and Bactericides
<b>Nuplex Resins</b>	Novel Waterborne Coatings from Polymeric Dispersions
<b>Shamrock</b>	New Waxes for Coatings
<b>Specialty Polymers</b>	Topic TBA
<b>Troy Chemical</b>	Use Level Optimization of Preservatives in Coatings
<b>Velsicol</b>	New Benzoate Ester for Improved Performance & VOC Reduction

### TABLE TOPS

- Akzo Nobel Functional Chemicals
- Arch Chemicals
- Archway Sales
- BASF
- Byk - Chemie
- Cary Company
- Ciba Specialty Chemicals
- Eastman Chemical
- Eiger Machinery
- Elementis Specialties
- Evonik - Tego
- Fitz Chem
- Hall Technologies
- Halox
- Honeywell International
- Micro Powders, Inc.
- Munzing - Ultra Additives
- Nuplex Resins
- Palmer Holland
- RCI
- Shamrock
- Solutia
- Specialty Chemical Sales
- TH Hilson Company
- Velsicol Chemical
- Q Sales

**Registration Form Available Online**

### ONLINE PAYMENT OPTION NOW AVAILABLE FOR:

- February 4**  
Technical Meeting
- February 7 SYMCO**  
Coatings Symposium



- March 3**  
Technical Meeting
- April 7**  
Technical Meeting

[www.chicagocoatings.org](http://www.chicagocoatings.org)

C/O MARY SEFFROOD  
Micro Powders, Inc.  
1663 Apple Tree Lane  
West Chicago, IL 60185

<p><b>COATINGS FOR PLASTICS</b> Technical Symposium <b>April 21-23, 2008</b> Chicago, IL <a href="http://www.coatingsforplastics.org">www.coatingsforplastics.org</a></p>	<p><b>AMERICAN COATINGS SHOW</b> <b>June 3-5, 2008</b> Charlotte, NC <a href="http://www.american-coatings-show.com">www.american-coatings-show.com</a></p>	<p><b>GREEN CHEMISTRY</b> Technical Symposium <b>May 6-7, 2008</b> Philadelphia, PA <a href="http://www.psct.org">www.psct.org</a></p>
<p><b>Industry Events</b></p> 		
<p><b>RAD-TECH</b> UV/EB Expo &amp; Conference <b>May 4-7, 2008</b> Chicago, IL <a href="http://www.uveb2008.com">www.uveb2008.com</a></p>	<p><b>ICE-International Coatings Show</b> <b>October 13-17, 2008</b> Chicago, IL <a href="http://www.coatingstech.org">www.coatingstech.org</a></p>	<p><b>SINK OR SWIM</b> Technical Symposium <b>May 20-21, 2008</b> Cleveland Coatings Society <a href="http://www.clevelandcoatingsociety.org">www.clevelandcoatingsociety.org</a></p>



Make your dinner meeting reservations for 2/4/2008  
to Jim Donovan 630-215-9782  
[jimdonovan@thecarycompany.com](mailto:jimdonovan@thecarycompany.com)

Or sign up & pay online at [www.chicagocoatings.org](http://www.chicagocoatings.org)

**CSCT**  
Calendar  
of Events



<b>Feb 4, 2008</b> <i>Monday</i>	<p><b>BASF:</b> "Low VOC Resins" - Sue Renner <b>Clariant:</b> "Organic Pigments" - Romesh Kumar</p>	<b>OAK MEADOWS GOLF</b> Addison, IL
<p><b>Feb 7, 2008-Thursday</b>     <b>SYMCO "CLEAN AND GREEN"</b>     <b>DRURY LANE</b> Oak Brook, IL</p>		
<b>Mar 3, 2008</b> <i>Monday</i>	<p><b>Omya:</b> "New Opaque Polymers" - Bob Ballard <b>ADM:</b> "Low VOC Coalescing Agents"</p>	<b>OAK MEADOWS GOLF</b> Addison, IL
<b>Apr 7, 2008</b> <i>Monday</i>	<p><b>Sartomer/Cytec:</b> "UV Oligimers &amp; Monomers" <b>CIBA:</b> "Light Stabilizers and Photoinitiators"</p>	<b>OAK MEADOWS GOLF</b> Addison, IL
<p><b>May 8, 2008-Thursday</b>     <b>ANNUAL AWARDS BANQUET &amp; DINNER THEATRE</b>     <b>DRURY LANE</b> Oak Brook, IL</p>		
<p><b>July 28, 2008-Monday</b>     <b>GOLF &amp; TENNIS OUTING</b>     <b>ST ANDREWS GOLF COURSE</b> West Chicago, IL</p>		
<p><b>Oak Meadows Golf &amp; Banquets:</b> 900 N. Wood Dale Road, Addison, Illinois 60101 (630) 595-1800</p>		

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