



Chicago Society *for* Coatings Technology

February 2016

Volume 19-5

FEBRUARY 2016 NEWSLETTER

FEBRUARY DINNER MEETING

Our February meeting will be held on Monday, February 8th at the Greek Islands in Lombard, IL.

Registration will begin at 5:30 and the speaker will begin at 6:00 followed by dinner.

Reservations may be made on our website at

<http://www.chicagocoatings.org/>

Once again, the CSCT will offer an outstanding speaker and continue a CSCT tradition of raffling off several valuable prizes for our members!!

The topic of February's meeting will be:

INNOVATIVE TECHNOLOGIES FOR LOW VOC COATINGS

by

Greg Monaghan

Application Manager

Specialty Polymers Inc.



Low VOC coatings offer unique challenges for coatings manufacturers. Optimizing performance for hardness, tack and toughness can be difficult as polymers are

reformulated for lower coalescent levels. The challenges of several different low VOC coatings applications – floor coatings, concrete sealers and trim paints illustrate the problems facing coatings manufacturers. Several binders with novel technology which can help manufacturers meet these challenges will be presented.

Speaker's Biography

After graduating with a degree in chemistry from UNC, Greg Monaghan worked for several regional and national paint manufacturers and polymer manufacturers before joining Specialty Polymers, Inc. in 2014. Over his career, he has worked in the formulation of architectural coatings to meet VOC requirements. At Specialty Polymers, he will be working in applications supporting product development for the metal, concrete and wood markets.

FUTURE MEETINGS

March 14th, 2016 – CSCT Technical Dinner Meeting

Two presenter, two topic evening

FIRST Topic for March meeting will be:

Microbiological Protection for a Greener World

by

Dr. Gary L. Horacek, Troy Corporation



Producing premium coatings and other products that meet market expectations for low or zero VOC and formaldehyde content is not a simple task. Besides inherent formulation challenges, it must be recognized that wet-state preservation of the finished

product will be more difficult than in the past. Removing VOC and formaldehyde contributing materials leaves these new 'green' coatings more susceptible to microbiological attack. Conversely, the limited number of preservative chemistries that can meet the VOC-free and formaldehyde-free requirements are inherently not as robust as the actives formerly used. Preservative selection involves balancing the preservation need (degree of protection required, time that protection is required, economic risk of contamination, cost-in-use, etc.) against the chemical properties and performance of the available actives suitable for the application. This presentation examines the available 'green' active chemistries and illustrates some ways to use them to achieve the preservation needs of these new green products.

Bio

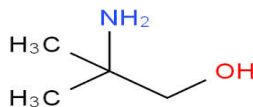
Dr. Gary L. Horacek is Director, Technical Microbiology Services – Americas, for Troy Corporation. Dr. Horacek has been an industrial microbiologist for 33 years and specializes in technical support for preservative applications. His career has focused on solving chemical, biological, and environmental issues for industrial needs, including those in oilfield microbiology, paper microbiology, field application of biocides/preservatives, industrial preservation, and biofouling and biocorrosion control. Dr. Horacek is a member of TAPPI, SIM and Sigma Xi, and he has past associations with NACE International, and SPE. He is married with two sons.

SECOND Topic for March meeting will be:

AMP: AVOC EXEMPTION STORY

by

Kent Alexander, ANGUS Chemical Company



Abstract:

Regulations in the U.S. have forced architectural paint manufacturers to reduce volatile organic compounds (VOCs) in their formulations below 50 grams/liter. In addition, consumer requirements have forced the industry to develop formulations containing less than 5 grams/liter VOC. This presents a tremendous challenge in maintaining the expectations of film performance. Inorganic neutralizers, in particular sodium hydroxide and ammonia, are often used, however, performance in several areas including pH stability and moisture resistance is often less than optimum. Use of AMP would be preferred, but, until recently, has been considered a VOC.

Effective June 25, 2014, AMP is exempted by the U.S. Environmental Protection Agency from regulation as a VOC. This presentation will review the petitioning process and the supporting information leading to the exemption.

Bio:

Kent Alexander is a Marketing Manager for ANGUS Chemical Company, based in Buffalo Grove IL. Kent is responsible for the company's North American marketing activities in Industrial Specialties (which includes paint and coatings, gas treatment, metalworking fluids and several other applications) as well as Personal Care. Kent recently returned to the chemical industry, joining ANGUS this past May. Previously Kent worked for Amoco Chemical and then BP Chemical where he held various marketing and business development roles. Kent has a Bachelor's degree in Chemical Engineering from Purdue University as well as a MBA from Indiana University.

FUTURE MEETINGS continues:

- *April 18th, 2016 – Executive Board Meeting only*

OTHER NOTABLE EVENTS

- *April 12-14th, 2016 - American Coatings Show*
- *May 19th, 2016 - CSCT Past Presidents and Awards Night*
- *July 25th, 2016 - CSCT Golf Outing*
- *December 1st, 2016 - CPCA/CSCT 2016 Christmas Party*



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ANTI-TRUST STATEMENT from the CSCT Bylaws

AI-VII ANTI-TRUST STATEMENT

In order to protect your personal and company interest while attending a CSCT function our policy of compliance with all antitrust laws are strictly followed. Penalties for violation of antitrust laws include severe fines and imprisonment, so the CSCT urges you to these guidelines while attending a CSCT function.

- *Do Not discuss prices (including price increases and pricing methods), discounts, term of sale, and the refusal to deal with another company or profit margins with any representative of any associative company.*
- *Do Not make any announcements about your prices or those of competitors.*
- *Do Not talk about the plans of individual companies (yours/competitors) regarding specific geographic or product markets or regarding particular customers.*

For each meeting an agenda and minutes are prepared, both of which are reviewed by the CSCT Executive Board before they are read at the meeting. This helps to ensure that the Anti-Trust laws are observed.

*If you have any questions please contact a CSCT board member**

**Current CSCT Board Members contact information may be found on the CSCT website*

<http://www.chicagocoatings.org/>





Chicago Society *for* Coatings Technology

EDUCATION

1. SCHOLARSHIPS

CSCT offers two scholarships

- **CSCT Merit Scholarship** - This scholarship is intended to foster a pursuit of a college education in the physical science by the children or grandchildren of current members of CSCT
- **CSCT/CPCA Joint Scholarship** - This scholarship is awarded to children of the CSCT or CPCA member. The course of study is not a consideration. Recipients are drawn at random at the CSCT spring meeting in April

The same application used for both the CSCT Merit and CPCA/CSCT Joint scholarships

Scholarship Guidelines General

Candidates meeting the requirements below are eligible to apply for both scholarships each year of their collegiate career. However, they may receive each respective scholarship award only one time and may receive only one of the scholarships in any given year. (E.g. the Merit Scholarship award recipient will not be included in the drawing for the Joint Scholarship that year, but may reapply for the Joint Scholarship the following year.) The candidate must reapply each year to be considered for that year's scholarship awards.

1. The CPCA/CSCT Joint Scholarship

This scholarship is awarded to children of the CSCT or CPCA, and course of study is not a consideration. Recipients are drawn at random at the CSCT spring meeting in April. The odds of winning this joint scholarship based on your attendance to CSCT technical dinner meetings.

APPLICATION MUST BE SUBMITTED TO THE CPCA EDUCATION CHAIR BY APRIL 1

2. CSCT Merit Scholarship

This scholarship is intended to foster a pursuit of a college education in the physical sciences by the children or grandchildren of current members of the CSCT.

REQUIREMENTS AND INSTRUCTIONS FOR CANDIDATES

- 1. Complete the application attached to this instruction sheet along with the items below**
 - 2. One letter of recommendation is required from a teacher, principal, guidance counselor, or Department head or from someone involved with your extra-curricular activities, job, or Community service**
 - 3. A copy of your most recent high school transcripts that includes ACT and /or SAT score if the candidate is a high school senior. Undergraduates must include the most current college transcript**
 - 4. An essay titled “The need for a college education” including how your selected area major can be a benefit in the future. Essay to be limited to one typed page**
 - 5. Applicant must be the son or daughter, or grandson or granddaughter, of a CSCT member and said member is a current member in good standing for of a minimum of two years**
 - 6. Curricula pursued by the applicant must include one of the physical sciences, examples; Mathematics, Chemistry, Computer Science, Physics, & Engineering.**
 - 7. The candidate be a full time student, attending (or a high school senior registered to) any Accredited college or university leading to a degree in one or more of the above curricula**
 - 8. The grant is for one year and is not renewable or transferable**
 - 9. Award is paid directly to the college or university for application against tuition and fees**

COMPLETED APPLICATION, TRANSCRIPTS AND LETTER OF RECOMMENDATION MUST BE SUBMITTED TO THE CSCT EDUCATION CHAIR BY MARCH 20, 2016



**Scholarship application is in process now !
CPCA/CSCT Joint Scholarship based on a random draw. The odds of winning this scholarship based on your attendance to CSCT dinner meetings !**

2. EDUCATIONAL EVENTS:



SEPTEMBER 13-14, 2016 | Lincolnshire, IL

Coatings Trends & Technologies

PRODUCED BY:
PCI Paint & Coatings Industry **CSGT | SYMCO**

Coatings Trends & Technologies (CTT), now in its 6th year, has become the go-to source for chemists, formulators and R&D personnel to find proactive solutions to their formulation challenges and vital resources to help evolve with the changing trends in coatings technology.

CTT offers two full days to learn and network with a qualified group of coatings experts, suppliers and professionals in an intimate and engaging setting - an opportunity your company cannot afford to miss!

3.POLYMER AND COATINGS SCIENCE DEGREES

POLYMERS & COATINGS SCIENCE
Masters Degree Program at DePaul University

<p>Modern coatings, a \$10 billion industry in the United States, protect and beautify our surroundings. The need for improved products, concern for their effects on the environment, and the need to conserve petroleum resources present new challenges to the coatings industry as well as new opportunities for chemists trained in polymers and coatings science.</p> <p>DePaul University is one of only four institutions in the United States that offers a graduate program of study in the coatings field. The program began in 1985 and has six to eight graduates each year.</p> <p>PROGRAM OBJECTIVES</p> <p>The main objectives of the program are twofold: To satisfy the demand for technical professionals in the coatings industry at an advanced level, and to provide an opportunity for Bachelor of Science level coatings chemists in the Chicago area to enhance their knowledge and skill for improved levels of performance and advancement in salary and rank.</p> <p>EXPERT FACULTY</p> <p>The Department of Chemistry at DePaul University has eleven full-time faculty members and has been offering courses in polymer chemistry since 1971. Chemists from local industries teach specialized coatings courses.</p>	<p>PROFESSIONAL ENDORSEMENT</p> <p>The Coatings Technology Program at DePaul University has received the endorsement and active support of the Chicago Society for Coatings Technology and the American Coatings Association.</p> <p>ADMISSION REQUIREMENTS</p> <p>The program requires graduate admission to DePaul University. Candidates should have earned the Bachelor of Science degree in chemistry or its equivalent. The twelve-course curriculum (48 quarter hours) requires about nine quarters of study. Required courses include five advanced courses in Inorganic, Organic, and Physical Chemistry; three courses in Polymer Chemistry (Synthesis, Characterization, and Physical Chemistry), and 2 courses in Coatings Technology.</p> <p>All graduate courses are taught in the evening, with labs on Saturday morning. Students may also enroll in Coatings and Polymer courses as non-degree seeking students to enhance their knowledge.</p> <p>CONTACT INFORMATION</p> <p>Dr. Gregory B. Khoury DePaul University - Department of Chemistry, 1110 West Belmont Avenue, Chicago, IL 60614 773-325-7367 (voice) 773-325-7421 (fax) email: gkhoury@depaul.edu http://www.depaul.edu/</p>	<p>GRADUATION REQUIREMENTS</p> <p>Courses: a maximum of 48 quarter hours (q.hrs.), including:</p> <ul style="list-style-type: none">CHE 422: Inorganic Structure and ReactivityCHE 450: Adv. Mechanistic Organic ChemistryCHE 452: Adv. Synthetic Organic ChemistryCHE 430: Polymer SynthesisCHE 431: Polym. Synthesis Laboratory (2 q.hrs.)CHE 432: Physical Chemistry of PolymersCHE 434: Polym. CharacterizationCHE 435: Polym. Characterization Lab. (2 q.hrs.)CHE 436: Polymer TechnologyCHE 438: Material ScienceCHE 460: Coatings Technology ICHE 462: Coatings Technology II <p>All courses above are 4 quarter hours except lab courses (2 q.hrs.)</p> <p>And any two of the following special topics courses (2 for a total of 4 q.hrs.)</p> <ul style="list-style-type: none">CHE 480: Sp. Topics in Analytical ChemistryCHE 484: Sp. Topics in Inorganic ChemistryCHE 486: Special Topics in Organic ChemistryCHE 488: Special Topics in Physical Chemistry <p><i>The specific schedule of courses taken will depend upon when the program is started, when the courses are offered, and the student's personal preference regarding sequencing and course load.</i></p>
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Paint a
brighter
future with...

a PURDUE DEGREE

*Make Purdue University Calumet
your destination for success.*

- One of the **top engineering programs** among universities whose highest degree is a Bachelor's or Master's (*U.S. News and World Report*)
- **American Chemical Society-accredited** Chemistry program
 - Internationally respected **research centers**
- **Partnerships with industry** offer hands-on learning

"The program provided me with a solid foundation for chemistry. It also introduced me to the paint and coatings industry terminology. This directly led to my desire to join the industry and helped my interview process."

— Daniel Woods, Purdue Calumet alumnus
and Sherwin Williams employee

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COLLEGE OF ENGINEERING,
MATHEMATICS & SCIENCE

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Located near Chicago in Hammond, IN



Chicago Society *for* Coatings Technology

CSCT 25/50 YEAR CLUB

What were you doing 25 years ago.....50 years ago?

If you were a member of any Society for Coatings Technology
25 or 50 years ago and are now a member of the CSCT you may qualify for the
However, we need to know who you are, please contact **Evans Angelos**
evansangelos@comcast.net or Tel: 630-323-6474

MEMBERSHIP

CSCT Board and Officers would like to welcome a new member

CATHERINE M. KAPUSTYNSKI



to CSCT family !