



PITTSBURGH SOCIETY FOR COATINGS TECHNOLOGY

MARCH 14, 2011

TOPIC: Fine Points of Epoxy Chemistry for the Formulator
(or What you don't know *can* hurt you)

SPEAKER: Mike Watkins, Vice President, Cypress Chemical Consulting, Inc.

PLACE: **SPAGHETTI WAREHOUSE / 412-261-6511**
2601 Smallman St., Strip District (Free Parking in Lot off of 26th Street.)

TIME:

Board Meeting	4:00 pm
Happy Hour	5:00 pm
Presentation	6:00 pm
Dinner / Meeting	7:00 pm
Adjourn	8:00 pm

COST: Members: \$30 w/reservation / \$35 at door / Retired/Job Seekers: \$10

RESERVATIONS:

Debra Longhini by MARCH 11 • longhini@ppg.com or 412.434.2236

A MESSAGE FROM THE PRESIDENT

I hope that everyone is over the Steelers Super Bowl loss. On my end, I have not seen work being this quiet for a while. I am sure Steelers will make it there again soon.

We did not have a speaker for February due to Valentine's day. We will continue our meetings in March and April. The May outing will be the last time that we will be getting together for this fiscal year. In March, we will have Mike Watkins talk about fine points of epoxy chemistry.

The ground hog predicted that it will be an early spring but the news yesterday was saying that it is going to be a cold spring. I want to bet my money on weather experts rather than the groundhog. Keep warm everybody

Abdullah Ekin

PSCT President 2010-2011

SPEAKER'S BIO:

MIKE WATKINS is a polymer chemist with over 36 years of experience developing high performance industrial coatings for a number of companies, including Sherwin-Williams, Battelle Columbus Laboratories, Shell Chemical Company, and Hexion Specialty Chemicals. Mike spent 23 years in the epoxy business designing resins, curing agents, modifiers, and formulated systems. During that time, he helped epoxy formulators around the world to develop many new products and processes.

ABSTRACT:

Experience has shown that epoxy formulators understand very well factors like raw material selection (resins, modifiers, curatives, pigments, etc.), stoichiometry, mix ratios, etc. However, experience has also shown that even the best formulators often do not understand many of the details about epoxies which can still impact the performance of their finished formulations. Examples will be used to illustrate these issues. This talk should increase the awareness of a number of these details, and should help the formulator to overcome some of the generally unanticipated problems which can be encountered in designing high performance epoxy coatings.

<http://paintsociety.org/>



PSCT BROCHURE

A new brochure to help promote the PSCT to area businesses and individuals is now ready. Copies will be available at the March meeting or by contacting Jim Wasik.



MEETING SCHEDULE

For the remainder of this season the PSCT will alternate meetings between the Meadows in Harmarville and the Spaghetti Warehouse in the Strip district of Pittsburgh. For future meetings at the Spaghetti Warehouse a microphone and sound system will be used to try to overcome the noise from the kitchen.

- March 14 Spaghetti Warehouse
- April 11 Meadows
- May Spouses outing

Tim Hurley graciously volunteered to plan the season ending outing again. If you have any suggestions for this year please contact Tim at thurley@ppg.com.

THE M. F. CACHAT COMPANY

14600 Detroit Avenue Suite 600
Lakewood OH 44107



Andy DePage
Technical Sales Representative

800 • 729 • 8900 x 222
216 • 228 • 9916 fax
248 • 705 • 2776 car
agdepage@mfcachatchat.com
www.mfcachatchat.com



Chad Hack
Technical Sales Representative

BYK USA Inc.
1380 Fieldstone Court
Ann Arbor, MI 48108
www.byk.com

Telephone (734) 913-9060
Chad.Hack@altana.com

Chad.Hack@altana.com

A member of **ALTANA**



Linda Lee Wolf
President/Owner
Tel: 724.940.2222
Fax: 724.940.2236
Mobile: 412.670.1679

WOLF CONTAINER & CHEMICAL CO., INC.
Packaging & Chemical Products

2591 Wexford - Bayne Road, Suite #303
Sewickley, Pennsylvania 15143

lindaw@wolfcontainer.com



Concrete Coatings

March 10, 2011

1:00 pm to 2:00 pm (ET)

Mike Praw, BASF

This webinar will discuss the current available technologies for concrete coatings as well as low VOC technologies and options. With environmental regulations and advances in dispersion and emulsion technologies, chemists and formulators are confronted with several and confusing choices. We will help provide chemists and formulators with a better understanding and assess performance balance for concrete substrates. Benefits and performance properties of the current and newer technologies are presented together with several practical options.

Concrete coatings are an extensive subject that encompasses a wide variety of protective, functional and decorative coatings. The choice of coatings is determined by the substrate (concrete) condition, environmental issues and the desired performance properties. Whatever the ultimate purpose of the coating may be it is crucial that we understand Concrete as a substrate as well as its proper surface preparation.

Concrete is most commonly used building material, it is a mixture of water, Portland cement, aggregates (sand, gravel), pozzolans (soda ash) and air (added on purpose). Water in this mixture combines with cement to form a rigid mass called concrete. Usually concrete is strong, however environmental elements like water and UV attack the surface both physically and chemically. Concrete surfaces are porous and often exposed to water, UV and environmental conditions. Physical attacks cause cracking; concrete being porous, water is absorbed and released within the concrete and causes spalling or cracking. Therefore it is necessary to protect its surface from deterioration and contamination by applying a coating. Surface preparation is also of prime importance to the durability and adhesion of applied coatings.

In the recent years decorative coatings for concrete have gained popularity and are primarily based on acrylic emulsions. Emulsions include pure acrylic, acrylic styrene, epoxy acrylic, and vinyl acrylics. This technology also provides protective and functional value - chemical resistance, good corrosion and weathering resistance, alkali resistance, abrasion resistance, dirt pick-up resistance and good gloss. Most of the 1K pigmented commercial coatings fall in to this category.



www.paint.org/meetings

Advanced Environmental Management Systems

March 24, 2011

1:00 pm to 2:00 pm (ET)

Steve Sides CIH, MS and Dave Darling PE, MS, American Coatings Association

Leading companies and organizations have increasingly begun to use Environmental Management Systems (EMS) to organize and administer an ever-expanding slate of site, facility and firm-related environmental performance requirements. Traditionally, most EMS requirements have focused on bolstering compliance with existing legislation and regulation. Recently, however, more advanced EMS have moved "beyond compliance" to embrace broader performance objectives. These broader objectives include those emanating from corporate sustainability initiatives, output from expanded life-cycle assessments (LCA) of manufacturing activities, and assessment of facility/location-specific ecosystem impacts. This VLC will provide a brief review of the most active EMS constructs in the coatings industry, ISO 14001 and Coatings Care®, provide information on the business value that has accrued to current participants, and the associated changes in environmental performance that can be expected. New and creative initiatives that are expanding the boundaries of traditional EMS will also be detailed, and the demise of some longstanding EMS-related initiatives will be chronicled. Participants will also gain perspective from short, illustrative case studies of participants from different industry EMS.

Coatings Rheology I - Fundamentals

April 7, 2011

1:00 pm to 2:00 pm (ET)

Raymond Fernando, California Polytechnic State University

Scientific approach is very common today in R&D and technical problem solving related to a wide range of coating issues. However, trial-and-error is still the most prevalent approach when it comes to addressing rheological issues. Often, major problems related to rheology do not come to surface until scale up of laboratory formulations. A trial-and-error approach is very resource-intensive, especially during the scale up stage. Prerequisites for the scientific approach are the combined knowledge of how coating formulation ingredients and their interactions impact rheological properties (structure/property relationships), and how these properties impact real-world flow behavior (property/performance relationships) of coatings during mixing, pumping, application, and flow and leveling, etc. This two-part course is designed to provide coating formulators with the necessary foundation for both of these aspects.

This course covers important rheology parameters (viscosity, shear-thinning, thixotropy, viscoelasticity, etc.) and their measurement. How these parameters are related to various formulation aspects is discussed.

CONTINUED ON NEXT PAGE

COATINGSTECH • conference

THE NEW FACE
of Innovation

MARCH 14-16, 2011

http://www.paint.org/meetings/coatings_tech.cfm

COATINGSTECH CONFERENCE

March 14-16, 2011

Hilton Rosemont/Chicago O'Hare / Rosemont, IL

This 2nd biennial conference seeks to provide a multi-track forum for all professionals in the coatings industry. Sessions will provide insight into advancements in the coatings industry and provide a look at the future of coatings technology from industry leaders. Leading off this signature educational event will be four informative half-day Technology Short Courses held on Monday March 14, 2011.

CONTINUED FROM PAGE 3

Coatings Rheology II - Applications

April 14, 2011

1:00 pm to 2:00 pm (ET)

Instructor:

Raymond Fernando, California Polytechnic State University

Scientific approach is very common today in R&D and technical problem solving related to a wide range of coating issues. However, trial-and-error is still the most prevalent approach when it comes to addressing rheological issues. Often, major problems related to rheology do not come to surface until scale up of laboratory formulations. A trial-and-error approach is very resource-intensive, especially during the scale up stage. Prerequisites for the scientific approach are the combined knowledge of how coating formulation ingredients and their interactions impact rheological properties (structure/property relationships), and how these properties impact real-world flow behavior (property/performance relationships) of coatings during mixing, pumping, application, and flow and leveling, etc. This two-part course is designed to provide coating formulators with the necessary foundation for both of these aspects.

Focusing on key rheological properties that control their application behavior, this course will examine a number of real-world scenarios to emphasize important principles.

COATINGSTECH CONFERENCE

FEATURED PRESENTATIONS



Keynote Address

Tuesday, March 15, 8:15 am - 9:00 am
Diana Strongosky, The Sherwin-Williams Company
Challenges and the Need for Innovation in the Coatings Industry



Mattiello Memorial Lecture

Tuesday, March 15, 1:00 pm - 2:00 pm
Tinh Nguyen, National Institute of Standards & Technology
Measurement Science for Durability Studies of Sustainable Polymer Coatings

THE NEW FACE OF INNOVATION

Join the ACA for the 2011 CoatingsTech Conference. This key educational program seeks to provide a multi-track forum for all professionals in the coatings industry.

Embracing the theme "The New Face of Innovation," this 3-day event will showcase the industry's most innovative methodologies and applications. During the sessions, industry leaders will provide insight into advancements in the coatings industry and offer a glimpse at the future of coatings technology.

Leading this signature event are four informative Technology Short Courses, to be held on Monday, March 14.

For information, registration and the conference program contact Starsha Valentine at svalentine@paint.org or 202-462-6272.

Expand your company's exposure by participating in our sponsorship program or purchasing a tabletop exhibit. For more information contact Dorothy Brawner at dbrawner@paint.org or 202-462-6272.



Carl J. Alessandro
Senior Technical Sales Representative

BYK USA Inc.
P.O. Box 360136
Strongsville, OH 44136
www.byk.com

Telephone (440) 238-8014
Telefax (440) 238-8520
Cell (216) 390-3647
Carl.Alessandro@altana.com

A member of ALTANA



16600 Sprague Road
Cleveland, Ohio 44130-6318

cmc@chem-materials.com

(440) 243-5590 Telephone
(800) 585-0808 Toll Free
(440) 243-1940 Fax
cmc@chem-materials.com e-mail
www.chem-materials.com website



Quality • Responsibility • Service™

May 18-20, 2011
Sheraton Oceanfront Hotel
Virginia Beach, VA

This three-day Marine & Offshore Coatings Conference will offer a dual-track forum for professionals who research, develop, specify or use coatings, as well as for coatings manufacturers, end-users, and sales personnel, including:

- Formulators and R&D personnel
- Ship yard and dry dock facilities personnel
- United States Navy and Coast Guard
- Classification societies
- Standards setting organizations
- Regulatory agencies
- University staff and students

This conference will provide a unique platform for discussion of innovative technologies and best management practices for the regulation of protective marine coatings. This conference will offer one track focused on technology advances and research, and an alternative track for managerial and sales personnel.

THEMES AND SUGGESTED TOPICS

Technology Advances

New Technologies

Emerging issues

- Topside coatings
- Void Space and ballast coatings
- Nanotechnology
- Testing and evaluation of products
- Unique raw materials and coatings
- Corrosion control

Fouling and Anti-Fouling

- Natural products
- Silicone
- Biocides
- Invasive species
- Fouling release coatings
- Lay-up coatings

Best Management Practices

Short-and-Long-Term Regulatory Issues

- Dome testing
- Greenhouse gases
- Low-VOC yacht coatings
- Environmental regulations

Regulatory Updates

- Clean air regulations
- Navy and shipyard updates
- Liability issues

Industry Demand

- Shipyard and end-user perspective
- Cleaning methods
- Consumer uses

Information for Speakers

- In order to comply with the expectations of the conference attendees, all submitted abstracts and subsequent papers must be non-commercial in style and reflect the highest professional standard.
- All abstracts will be reviewed by the Marine Coatings Conference Task Force whose decision will be based on originality, quality, and relevance to the marine and protective coatings industry.
- Speakers will not be compensated and are expected to pay their own travel, lodging, and per diem expenses.
- All presentations will be distributed to registered attendees in the Conference Proceedings.

September 13-14, 2011
International Wood & Wood Composites Conference
Charlotte, NC

September 14-15, 2011
Polyurethane Technology Conference
Charlotte, NC

VIRTUAL LEARNING
CONFERENCES (VLCS)

March 10, 2011, 1:00-2:00pm (ET)

Concrete Coatings
Mike Praw, BASF

March 24, 2011, 1:00-2:00pm (ET)

Advanced Environmental Management Systems
Steve Sides CIH, MS and Dave Darling PE, MS, American Coatings Association

April 7, 2011, 1:00-2:00pm (ET)

Coatings Rheology I - Fundamentals
Raymond Fernando, California Polytechnic State University

April 14, 2011, 1:00-2:00pm (ET)

Coatings Rheology II - Applications
Raymond Fernando, California Polytechnic State University

VLC ON DEMAND

ACA is offering its popular series of Virtual Learning Conferences to be available when it is most convenient for you. Without leaving your home or office, you can stay current with the latest technical innovations, review coatings fundamentals, or gain from in-depth industry analyses. Each program is available for purchase via digital Internet file (including downloadable PDF document), or in CD-ROM format.

The cost for each course is \$69 for ACA members and \$169 for nonmembers. Please contact ACA's Starsha Valentine at svalentine@paint.org or 202-719-3698 to purchase and obtain your VLC program.

Pittsburgh Society for Coatings Technology
2010-2011 Hiram P. Ball Memorial Scholarship Application
APPLICATION DEADLINE: MARCH 31, 2011

Applicant: _____

Address: _____

Phone: _____ Fax: _____

Email: _____

Present School/University _____

Class Status: _____

(GRADUATING HIGH SCHOOL SENIOR, COLLEGE: FRESHMAN, SOPHOMORE, JUNIOR, SENIOR)

College / University (2010-2011): _____ Grade Point Average: _____

(ATTACH COPY OF TRANSCRIPT)

Major Course of Study: _____

PSCT Sponsoring Member: _____

PSCT Member Company: _____

ALL APPLICANTS: Please complete a short statement explaining how the course of study you are following will allow you to reach your career goals. It should also include comments regarding the student's participation in on academic areas such as community service, etc. (extra sheets may be attached). **NEW APPLICANTS** are requested to submit character references from teachers, clergy, employers, professionals, etc. who are familiar with the student's goals and aspirations.

Signature: _____ Date: _____

Return to: Mark Harley, PSCT Education Chairman
530 – 6th Street
Oakmont PA 15139

REQUIREMENTS

- The PSCT Board of Directors will determine the total amount of scholarship money to be awarded each year.
- The maximum dollar amount of each scholarship will be \$1500. Scholarship money will be awarded equally to students as recommended by the Scholarship Committee.
- Scholarship awards are to support undergraduate studies of full time students only en-rolled in an accredited college or university seeking an associate or bachelor degree.
- Scholarships may be awarded to any one given applicant a maximum of four times.
- Applicant must be the child of an actively participating PSCT member. An actively participating member is current with dues. The member must also attend at least four (4) PSCT meetings a year or serve on a PSCT committee (e.g.: Fund Raising, Newsletter, Membership, Education, Program, etc)
- Scholarships are limited to one award per applicant per member per year.
- Applicants must submit a Hiram P. Ball Memorial Scholarship Application which in-clude: a short essay explaining how the course of study will allow the student to reach their career goals; current GPA; name of sponsoring PSCT member; name of univer-sity or col-lege that they are attending; and two character references. Students cur-rently receiving scholarships will not be required to submit references, however they must submit essays regarding their educational progress.
- Applicants must maintain a 2.5 (out of 4.0) grade average.
- The Scholarship Committee will consist of five PSCT Members who do not have a child or relative applying for a scholarship.
- COURSE OF STUDY: Although all courses of study are open, students are encouraged to pur-sue scientific, engineering or math-ematical programs that lead to employment in the Coat-ings Industry.
- CHARACTER REFERENCES (examples of those who know the student and their goals)
 - Teachers
 - Clergy
 - Employers
 - Neighbors/Friends
 - Professionals (doctors, business people)

Revised: 8/2010

PSCT Membership Application and Dues Renewal Form for 2010-2011

1. MAILING ADDRESS:

Name: _____
Company: _____
Address: _____

City: _____
State/Prov: _____ Postal Code: _____

2. CONTACT INFORMATION:

Work Phone: _____
Fax: _____
Toll Free: _____
Home Phone: _____
Email: _____

3. MEMBERSHIP DUES

- Primary Full Membership \$30 Secondary Full Membership \$30 Student/Educator \$5 Retired Member \$5

*Please indicate primary society membership: _____

5. PAYMENT INFORMATION:

- Check payable to PSCT

6. SIGNATURE AND DATE: (Required)



Signature: _____ Date: _____

7. RETURN FORM AND CHECK

Terry Scheftic/PPG Industries, Inc. tscheftic@ppg.com
151 Colfax Street
Springdale, PA 15144

OFFICIAL USE ONLY:

Total Amount Due: \$ _____ Certified by Society Member _____ Date _____

<h3>AMMONIA FOR INDUSTRY</h3> <p>1 qt., 4-1 gal, 5 gal, 15 gal, 50 gal, totes 200-300 gal. Any concentration available as well as private labeling.</p> <p>We are a leading manufacturer of reagent grade ammonia solutions with over 50 years' experience. Our modern facilities, extensive research and development, and emphasis on quality, service, reliability, and integrity assure you, our customer, of complete satisfaction in all our products.</p>  <p>Please give us the opportunity to become your ammonia supplier. Thank you, Paul A Cuccinello CEO paul@wdserviceco.com</p> <p>W.D. Service Company 780 Creek Road PO Box 147 Bellmawr, NJ 08099 800-366-9326 www.wdserviceco.com</p>	 <h2>PALMER HOLLAND</h2> <p><i>The Premier Specialty Chemicals Distributor</i></p> <p>Steve St. Jean sstjean@palmerholland.com 216-272-2782 - cell</p> <p>Main Phone: 440.686.2300 Toll-Free: 800.635.4822</p> <p>www.palmerholland.com</p> <p>ISO 9001:2008 Certified</p> 
---	---

PSCT OFFICERS FOR 2010-2011

PRESIDENT

Abdullah Ekin
Bayer Material Science
100 Bayer Road
Pittsburgh PA 15205-9741
412-777-2703
abdullah.ekin@bayer.com

SECRETARY

Gary Balint
Lanxess Corp.
8 Morgan Road
Burgettstown PA 15021
412-809-4735
gary.balint@lanxess.com

PAST PRESIDENT

Cyndy L. Sherman
PPG Industries, Inc.
151 Colfax Street
Springdale PA 15144
724-274-3409
clsherman@ppg.com

REP. TO ACA SOCIETY LIAISON

COMMITTEE
James A. Wasik
PPG Industries, Inc.
151 Colfax Street
Springdale PA 15144
724-274-3307
wasik@ppg.com

EDUCATION & SCHOLARSHIP

Mark Harley
530 6th Street
Oakmont PA 15139
412-828-2568

VICE PRESIDENT

Timothy Knell
Shore Corporation
2917 Spruce Way
Pittsburgh PA 15201-1508
412-471-3330
tknell@shorecorporation.com

TREASURER

Debra M. Longhini
PPG Industries, Inc.
One PPG Place
Pittsburgh, PA 15272
412.434.2236
longhini@ppg.com

DIRECTOR AT LARGE

Peter Chakos
Neville Chemical Co.
2800 Neville Road
Pittsburgh PA 15225
412-777-4244
pchakos@nevchem.com

MEMBERSHIP

Terry Scheftic
PPG Industries, Inc.
151 Colfax Street
Springdale PA 15144
724-274-3337
tscheftic@ppg.com

BYLAWS

Raymond Stewart
Bayer Material Science LLC
100 Bayer Road, Bldg. 8
Pittsburgh, PA 15205
raymond.stewart@bayerbms.com

ADVERTISEMENT REMINDER

We would like to thank all the suppliers who have advertised with us in the past and hope we can count on your continued support. If companies want their logo and company name displayed on the PSCT website, please contact Alyssa Herzing (herzing@ppg.com) and non-member visitors will see your name when they log onto our site. Advertisers please contact Deb Longhini for details at longhini@ppg.com

HARVEY LIPSITZ CO.

Steel Containers • Tin Cans • Plastic Pails
Plastic Bottles • Glass Jars



MEL S. LIPSITZ

5621 BUTLER STREET
PITTSBURGH, PA 15201

PHONE: 412-782-2461
FAX: 412-782-5507

hlipcans@hotmail.com

From
A Carton
To A Truckload

<http://www.weldonlabs.com/>



Testing and Failure
Analysis for the
Coatings Industry

Dwight G. Weldon

PRESIDENT

1188 Route 30
P.O. Box 40
Imperial, PA 15126

Phone: 724-695-2212
Fax: 724-695-2218



MATTESON - RIDOLFI, INC.

EDWARD TYSL

Home Office
33271 Ambleside Drive
Avon Lake, OH 44012
Cell Phone: 440-237-1849
etysl@mattrid.com

Corporate Office
14450 King Road
P.O. Box 2129
Riverview, MI 48193
Customer Service:
(800) 275-4503
Fax: 734-479-1630



Documentation Verification Assessment 1995
File 17NC2078

dar-tech, Inc.

Serving American Industry since 1951



Representing the World's Best
Your one-stop solution supplier for pigments,
functional minerals, specialty additives, resins and more.

16485 Rockside Road
Cleveland, Ohio 44137-4336
www.dar-techinc.com

Toll Free 800 228-7347
Fax 216 663-8007

Ed Kaczmarek / Jim Benduhn



CONN AND COMPANY, L.L.C.
Designers and Manufacturers of Industrial
Mixing Equipment for

PAINTS ADHESIVES URETHANES
INKS CEMENTS ETC.

Richard C. Freeman
814-723-7980 / FAX 814-723-8502
11 S. Marion Street • Warren, PA 16365
www.connblade.com

SINCE 1948

A.C. Zoller Company
Manufacturers' Representative

Alan C. Zoller
Mark A. Zoller

Chemicals & Equipment
for Industry
mark.zoller@aczoller.com

P.O. Box 289
740 Seventh Street
Oakmont, PA 15139
412-828-8040
Fax 412-828-7219