



PITTSBURGH SOCIETY FOR COATINGS TECHNOLOGY

FEBRUARY 2011

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

<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.

DUES

Jim Wasik gave the idea about "Pay Pal" for membership dues via our web site. By using "Pay Pal", it eliminates writing a check for the society for membership also can get the PSCT application on line.

PSCT MAY OUTING

Tim Hurley volunteered to organize. Mark Harley suggested the Rivers Casino another suggestion was the Carnegie Museum. Tim will be checking on the various options.

SCHOLARSHIPS

Mark Harley received two applications for Scholarships and reminded people to submit five copies of the application.

NOMINATIONS

Cyndy Sherman – asked for officer nominations for President, Vice-President and Secretary.

PAINT POT

Buddy Baldwin's name was pulled – not present, the March amount grows to \$75.00!

JANUARY MEETING

A total of 22 people attended the January PSCT meeting at the Meadows.

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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.



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PITTSBURGH REGIONAL SCIENCE & ENGINEERING FAIR

TO: Science Fair Sponsor
FROM: Lisa Kosick, Director – 412.237.1534
Pittsburgh Regional Science & Engineering Fair
SUBJECT: SCIENCE FAIR JUDGING INFORMATION

Thank you for participating in the 72nd Pittsburgh Regional Science and Engineering Fair (PRSEF) which connects 1,000 of our region's youth with the science and engineering technology community. All PRSEF activities will be held at Heinz Field.

SPONSOR JUDGE/PRESENTER INFO

ONLINE Registration: Please register your judges online at http://www.scitechfestival.org/mainsf_spjudges_reg.asp.

Please register your judges and presenters by Friday, February 25.

The Sponsor Award Judge/Presenter schedule for Friday, April 1, 2011, follows:

12:30 p.m.	-	1:00 p.m.	Registration/Lunch in Press Box at Heinz Field (enter Executive Offices entrance)
1:00 p.m.	-	1:15 p.m.	Orientation/Review Abstracts
1:15 p.m.	-	2:00 p.m.	Review Projects on Exhibit Floor without students
2:00 p.m.	-	4:00 p.m.	Student Interviews at Projects/ Results Form Submission / Student Award Presentations at Projects

The above schedule allows for Sponsor Judging and Presentation of the Sponsor Award to be conducted within two hours. If you desire additional judging time, there will be an early-bird session from 9:30 – 10:00 am (review projects without students); 10:00 am - 12:30 pm (interview students). Please contact the Science Fair Office at 412-237-1534 for more information. Presentation of awards will begin at 2pm. A sponsor judge orientation will be conducted prior to the Science Fair. Details will be emailed to judges in March.

All sponsor award packets will be available on the exhibit floor. This enables a more efficient process for presenting the award. Checks and certificates will be mailed after the event.

PHOTOGRAPHS

Photographs will be taken of all students with their projects. A photograph of your award winner(s) with his/her project will be sent to you following PRSEF. If you desire to have a photograph of the student with your sponsor representative, we ask that you make your own arrangements.

VOLUNTEERS

The Science Fair is in need of volunteers such as student guides, registrars, and inspectors for Friday, April 1, 2011. Volunteer opportunities are available online at http://www.scitechfestival.org/mainsf_volunteer.asp. Please encourage your employees or members to volunteer.

If you have any questions, please contact me at 412-237-1534 or kosickl@carnegiesciencecenter.org.

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.
151 Colfax Street
Springdale, PA 15144

tscheftic@ppg.com

OFFICIAL USE ONLY:

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

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