



PITTSBURGH SOCIETY FOR COATINGS TECHNOLOGY

FEBRUARY 13, 2017

<http://paintsociety.org/>



<http://paint.org/>

psct1927@gmail.com

TOPIC: A Review of Intumescent and Flame Retardant Coatings Technology for Passive Fire Protection

SPEAKER: Tim Reilly of Clariant Plastics & Coatings USA

LOCATION: **WALNUT GRILL / FOX CHAPEL**
911 Freepoint Road, Pittsburgh, PA 15238

TIME: Board Meeting 4:00 pm
Social Hour 5:00 pm
Presentation / Speaker 6:00 pm
Dinner / Meeting 7:00 pm

COST: \$35 with reservation • \$40 at door • \$15 retired

RESERVATIONS:

Contact: Dan Bickford
by SUNDAY, FEB. 12 at
psct1927@gmail.com
Or Call: 814-242-6966
Or Sign Up Via PayPal:
www.paintsociety.org

CLARIANT



TOPIC A Review of Intumescent and Flame Retardant Coatings Technology for Passive Fire Protection

In the United States, there is one structure fire every sixty-three seconds and approximately ten civilian fire deaths per day. The fire load within our modern buildings continues to increase due to the presence of combustible synthetic materials. Active and passive fire protection is used by building architects and engineers to minimize adverse fire risk. Intumescent and flame retardant coatings technology play an important role in the passive fire protection of people and property. Passive FR coatings are also increasing used in industrial applications (e.g. oil & gas industry).

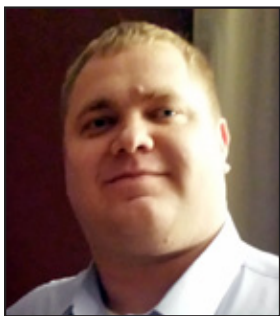
The chemistry of intumescent coatings will be discussed. Application examples including engineered wood, spray foam insulation and structural steel will be highlighted. The role of different flame retardants in passive fire coating technology will be explained. A growing IC market and industry technical trends will also be reviewed.

TIM REILLY Clariant Plastics & Coatings USA

Tim Reilly has worked for American Hoechst and now Clariant Plastics & Coatings USA for thirty-three years. He began his career as a shift supervisor in the manufacture of Azo Pigments. He then assumed positions of increasing responsibility including department head positions for the dyes and pigment manufacturing units. After fifteen years in manufacturing, he joined technical marketing and worked in the area of colorants and polymer additives for the plastics industry. Currently, Tim has role of Technical & Business Development Manager for Clariant Additives Business and focuses on the promotion of flame retardants to customers throughout North America. This includes thermoplastic, thermoset, elastomer and coatings applications.

Tim is a member of the Society of Plastics Engineers, and previously served on the Board of Directors for the Society of Plastic Engineers Color & Appearance Division. He also currently serves on the Board of Directors for the Phosphorus, Inorganic and Nitrogen Flame Retardant Association within North America (PINFA NA). Within PINFA NA, he serves as technical chairperson for the organization's annual industry day conferences. Tim is a graduate of Brown University and has a graduate degree from Tufts University. He resides in New London, Connecticut, USA.

PRESIDENTS MESSAGE



Kenneth Cutler
PSCT President
2016-2017

Dear PSCT Members,

I would like to begin with a big thank you to our hosts and friends at Covestro for hosting our January meeting. I'd like to thank Mike Jeffries for giving us a great presentation on 2-component polyurethane coatings. I'd also like to thank Andy DePage and IMCD US for donating the snacks and beverages. Finally, I'd like to thank our friends at the Chemical Association of Pittsburgh for joining us for a nice evening. As a token of our gratitude, the PSCT donated \$250 to the CAP scholarship fund. It was nice to meet several of CAP's members and talk about our mutual interesting in chemistry and coatings.

Our next social event will be the May event. We have decided we will be going to a Pirates baseball game on April 24th. Please save the date and plan to join us! In the upcoming months, we'll have more information available, including pricing.

The deadline for the Hiram P. Ball Memorial Scholarship and STEM grant is fast approaching! The last day to apply is March 15, 2017. I'd like to remind everyone to read the application thoroughly and make sure your application is complete. I'd also like to announce at this time that the PSCT board voted to maintain the same level of support for the scholarship program as last year. The Hiram P. Ball Memorial Scholarship will be \$6,500 to be split among the winners, and the STEM grant winner will receive a \$500 scholarship.

We are beginning our search for PSCT Board members for the next year. Please consider volunteering your time and talents to keep our organization strong! As usual, we will be seeking nominations for Treasurer, Secretary, Vice-President, and Director-at-Large. We will also need an ACA representative which is a two-year term. The current Vice-President will move to president and the current President will move to Past President. If you have any interest in any of these positions, please contact me or any of the PSCT Board members.

Our next meeting on February 13th and will be at the Walnut Grill in Fox Chapel. The speaker, Tim Reilly, will present at 6 pm with a talk entitled "A Review of Intumescent and Flame Retardant Coatings Technology for Passive Fire Protection" and be followed by dinner. I hope to see all of you at our second meeting of 2017!

SCHOLARSHIP DEADLINE

The last day to apply is **MARCH 15, 2017**. The PSCT board voted to maintain the same level of support for the scholarship program as last year. The Hiram P. Ball Memorial Scholarship will be \$6,500 to be split equally among the awardees, and the STEM Grant awardee will receive an additional \$500. Please see the application in this newsletter or on our website, www.paintsociety.org.

PAINT POT

Chris Gehly of Matthews International was picked for January's Paint Pot and was awarded \$25. The Pot will reset back to \$25 for this month's drawing. Remember, in order to be eligible to win, you must be an active member and must be present at the meeting when drawn.

CALL FOR SPEAKERS

We are still looking for a speaker for the April 10th, 2017 meeting. If you are interested in presenting please contact Ken Cutler at kcutler@kop-coat.com.

WEBSITE

Please visit <http://paintsociety.org> and view the website, including the current newsletter, President's message, upcoming events and more. Don't forget you can RSVP and pay for the upcoming dinner meeting and events from the home page of the website. Our new scholarship application is now available as well. You can also renew your membership directly online, it's not too late.

ADVERTISEMENT REMINDER

We would like to thank all of the suppliers who have advertised with us in the past and hope we can count on your continued support. If companies want their advertisement displayed in the PSCT monthly newsletter, please contact Dan Bickford at psct1927@gamil.com.

2017 MEETING DATES

February 13	Walnut Grill - Fox Chapel, PA
March 13	Roland's Seafood Grill & Iron Landing Pittsburgh Strip District
April 10	TBD

SPRING EVENT: **APRIL 24: Pittsburgh Pirates -vs- World Series Champion Chicago Cubs**



UPCOMING CONFERENCES & EVENTS:

THE WATERBORNE SYMPOSIUM

Environmentally Friendly Coating Technologies

44th Annual Waterborne Symposium

FEBRUARY 19 - 24, 2017

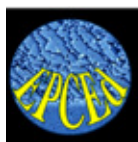
www.waterbornesymposium.com/

New Orleans Marriott

Sponsored by the School of Polymers and High Performance Materials / The University of Southern Mississippi

Welcome to the 44th International Waterborne, High-Solids and Powder Coatings Symposium for 2017.

We want to first thank you for your participation at our event and your support of our program at the School of Polymers & High Performance Materials at The University of Southern Mississippi. It is our goal to train the finest polymer scientists and engineers and to be the elite resource for highly qualified employees in these fields.



Emulsion Polymers Consulting and Education
EPCEd.com The Value of Experience - The Power of Knowledge
<http://www.epced.com/>

March 20-23: Scale-up & Commercial Production of Emulsion Polymers / Micro Tek, San Francisco, California

April 24-26: Hybrid Latex Systems / Mary Gates Learning Center, Alexandria, Virginia

June 5-8: Core-Shell Latex Particles: Fundamental Aspects of Morphology Control / University of New Hampshire, Durham, New Hampshire

CORROSION 2017
Conference & Expo

CORROSION 2017 Conference & Expo

MARCH 26 - 30, 2017

Sponsored by NACE International

Website: <http://www.nacecorrosion.org>

Morial Convention Center / New Orleans, LA

SMART COATINGS 2017

FEBRUARY 22-24, 2017 - ORLANDO, FLORIDA, USA

SMART COATINGS 2017

FEBRUARY 22 - 24, 2017

Orlando, FL

Smart materials continue to be an innovative area in research and technology. This annual symposium provides a global platform for leading scientists, technologists, and industry professionals to actively interact and share their groundbreaking research achievements.

<https://www.smartcoatings.org/program.html>

- Stimuli Responsive Polymers and Coatings Self-healing/ Shape-memory Materials
- Electro-active Polymers and Coatings
- Thermo- and Photochromic Materials
- Superhydrophobic/Hydrophilic Materials
- Self-assembling and LBL Coatings
- Bioactive Polymers and Coatings
- Dendrimers and Nano-particles
- Molecular Electronics, sensors and Photonics
- Hybrid Inorganic/Organic Materials

Submit abstract to: admin@smartcoatings.org



6th Architectural Paint Research Conference

MARCH 15 - 17, 2017

<http://www.apr2017.org/>

Columbia University / New York, NY

Organizer: Architectural Paint Research

The 6th International Architectural Paint Research Conference will be hosted by Columbia University in New York City from March 15 to 17, 2017. The theme of the conference, Powers of Ten, is reference to a short film from 1977 by Charles and Ray Eames. Like the film, Architectural Paint Research (APR) deals with magnitudes of scale, from a single pigment particle, to a painted house, to the decorative tastes of an entire region. In the spirit of the film, the 2017 APR conference aims to take a closer look at how we carry out our research at every level, from the micro to the macroscopic.



2017 CoatingsTech Conference

Meeting the Sustainability Challenges of Today and Tomorrow

MARCH 20-22, 2017

Westin Cleveland Downtown Cleveland, Ohio

This event, which is held on alternate years with the American Coatings Conference, provides coatings professionals the most innovative technologies and applications shaping the industry, as well as regulatory trends and networking opportunities. Through a series of special lectures from notable industry experts, focused technical sessions aimed at fully exploring key topics, and critical advanced training sessions, the 2017 ACA CoatingsTech Conference offers an unprecedented opportunity for all levels of coatings professionals to participate and learn from each other.

<http://www.paint.org/2017-coatingstech-conference/>

New Conference Features

- Exciting short courses that provide critical training for coatings professionals from entry level technicians to research managers
- High-level presentations from leading industry experts revealing cutting-edge developments and creative responses to industry challenges
- Full exploration of the coatings industry's role in meeting regulatory and sustainability challenges that support end users
- Presentations from heralded industry experts including winners of the Roon Award, Mattiello Lecture, Student Presenter and Poster Award, and the inaugural CoatingsTech Award

Keynote Address

David Bem is vice president of Science & Technology and chief technology officer at PPG.

Bem will discuss PPG's recent R&D efforts in addressing current and emerging market demands and regulatory trends. He will cover corrosion protection with a reduced environmental impact, coatings that enable energy efficiency, technologies driven by energy production innovation, and coating innovations driven by current and future regulatory trends.

At PPG, Bem oversees innovation across a portfolio of key segments to drive adoption of new paint and coatings offerings in products ranging from automobiles and airplanes to electronics and home care goods.



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

2017 SSCT Annual Meeting & Tech Conference

APRIL 30 - MAY 3, 2017



**Hyatt Regency Sarasota
Sarasota, FL**



<http://easterncoatingsshow.com/>

MAY 15 - 17, 2017

Philadelphia Society for Coatings Technology, the New England Society for Coatings Technology and the Metropolitan New York Coatings Association. Intended to offer educational and technical presentations to create a profound understanding of the theory, the science, the manufacturing and the marketing of coatings to highlight the improvement of coatings performance and functionality beyond traditional expectations.

The Eastern Coatings Show was established in 2013 and was warmly welcomed by the industry and it is our intent to exceed the quality and professionalism with the symposia and exhibit offerings of our second show.

ACA MEMBERSHIP

Coatings Science & Technology Professionals

ACA also offers a special membership category for Coatings Science & Technology Professionals, but these benefits are available to employees of Corporate Member companies at no additional cost.

Coatings Science & Technology Professional membership provides an opportunity for individuals working in the industry to benefit from member pricing for educational and training programs, and to have access to science and technology publications and events. This category of membership is offered for industry consultants, employees of non-member companies, and those working in academia.

Benefits of Coatings Science & Technology Professional membership include:

- Subscription to print and digital versions of **CoatingsTech** magazine
- Subscription to **Coatings Today** bi-monthly e-newsletter
- Online access to the **Journal of Coatings Technology and Research**

- Discount on registration fees for conferences and webinars
- Discount on publication orders
- Web access to “members only” technical information


To join ACA as a Coatings Science & Technology Professional member or to renew your existing membership, please click the link below.

Coatings Science & Technology Professional membership is also available free of charge to university-level coatings technology students. Student membership includes complimentary subscriptions to **CoatingsTech** magazine, **Coatings Today**, and the **Journal of Coatings Technology and Research**. Click the link below to apply for student membership.

All applications will be reviewed for eligibility. Applicants must allow three business days for processing before utilizing member benefits.





<http://www.paint.org/about-aca/membership/coatings-science-technology-professional-membership/>



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PSCT Membership Application and Dues Renewal Form for 2016 - 2017

1. MAILING ADDRESS:

Name: _____

Company: _____

Address : _____

City: _____

State/Prov: _____ Postal Code: _____

2. CONTACT INFORMATION:

Work Phone: _____

Fax: _____

Toll Free: _____

Home Phone: _____

Email: _____

3. PSCT MEMBERSHIP DUES

Primary Full Society Membership \$40

Secondary Full Society Membership \$40 – Please indicate primary society membership: _____

Student / Educator \$10

Retired Members \$10

5. PAYMENT INFORMATION:

Check payable to PSCT

6. SIGNATURE AND DATE: (Required)

Signature: _____ Date: _____

7. RETURN APPLICATION AND CHECK TO: Dan Bickford, PPG Industries
400 Guys Run Road
Cheswick, PA 15024


OFFICIAL USE ONLY:

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

AMMONIA FOR INDUSTRY


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**Pittsburgh Society for Coatings Technology
Hiram P. Ball Memorial Scholarship**

**PSCT Science, Technology, Engineering
Mathematics Grant Application**

APPLICATION DEADLINE: MARCH 15, 2017

**All Applicants must attach a full and detailed copy of transcript (School website transcript is acceptable).
PSCT Scholarship Committee has full discretion to reject an incomplete application.**

Applications are to be submitted electronically by e-mail to: **psct1927@gmail.com**. An endorsement e-mail by the Sponsoring PSCT Member(s) must be submitted to **psct1927@gmail.com**. The subject of the application and endorsement must be: PSCT SCHOLARSHIP APPLICATION. The student is advised to submit a COMPLETE application including home address. Submission deadline remains March 15, 2017.

Applicant (student): _____

Permanent Address: _____

Phone: _____ Email: _____

PSCT Member Sponsor: _____

Present School/University (2016-17): _____

College/University (2017-18) _____

OFFICIAL CLASS STATUS AS OF DECEMBER 31, 2016:

Graduating High School Senior College: Freshman Sophomore Junior

Major Course of Study: _____ Cumulative Grade Point Average: _____

Science, Technology, Engineering, or Mathematics Grant Applicant: Major Study GPA (last 12 months): _____

FIRST-TIME APPLICANTS: Please submit 2 character references from teachers, clergy, employers, professionals, etc., who are familiar with the student's goals and aspirations.

STUDENT SIGNATURE Date: _____

PSCT SPONSORING MEMBER SIGNATURE Date: _____

Revised 11/2016

PSCT SCHOLARSHIP COMMITTEE HAS FULL DISCRETION TO REJECT AN INCOMPLETE APPLICATION.

Pittsburgh Society for Coatings Technology Hiram P. Ball Memorial Scholarship

APPLICATION DEADLINE: MARCH 15, 2017

ALL APPLICANTS MUST MEET AND COMPLETE ALL REQUIREMENTS OUTLINED BELOW.

PSCT SCHOLARSHIP COMMITTEE HAS FULL DISCRETION TO REJECT AN INCOMPLETE APPLICATION.

GENERAL INFORMATION

- The PSCT Board of Directors will determine, in January, the total amount of scholarship money to be awarded each year.
- Scholarship money will be awarded equally to students as recommended by the Scholarship Committee.
- The Science, Technology, Engineering and Mathematics (STEM) grant will be added to the recipient's scholarship award. (See STEM grant requirements below.)
- **ELIGIBILITY:** Scholarship awards are to support undergraduate studies of FULL-TIME students enrolled in an accredited college or university seeking an associate or bachelor degree as of December 31, 2016. (Students must have maintained a minimum of 12 credits per semester for the 2 previous semesters to be considered full time), Students graduating from their senior year of high school are also eligible for the award.
- The Scholarship Committee will consist of five PSCT Members who do not have a child or relative applying for a scholarship.
- Scholarships are limited to one award per applicant per PSCT member per year.
- **COURSE OF STUDY:** All courses of study are open. (Exception: The additional STEM grant has further course of study restrictions. See STEM grant requirements below.) The PSCT does encourage students to pursue scientific, engineering, or mathematical programs that lead to employment in the Coatings Industry.

REQUIREMENTS

- Applicants must submit a COMPLETE Hiram P. Ball Memorial Scholarship Application which includes a 200-word minimum essay explaining how their course of study will allow the student to reach their professional and educational goals
- Applicants must maintain a 2.75 cumulative GPA (out of 4.0).
- Applicants must submit a full and detailed copy of their transcript. School website transcripts are acceptable.
- Applicants must meet eligibility requirements with regard to enrollment and status at their college or university. (See general information above for more details on who is eligible.)
- Applicant must be the child of an actively participating PSCT member who is current with dues. The PSCT Member must attend at least four (4) PSCT meetings or events a year. The sponsoring PSCT member must submit an electronic letter of endorsement confirming the applicant meets all of the requirements.

OR

The applicant may be a Student Member of the PSCT who is current with dues. Student Member applicants must be sponsored by an actively participating PSCT member who is also current with dues. The Student Member applicant must attend at least four (4) PSCT meetings or events a year. The sponsoring PSCT member must submit a letter to the Scholarship Committee endorsing the applicant.

- Applicant may receive the award up to a maximum of four times.
- New Applicants must also submit 2 Character References who know the student and their goals:
 - Examples: Teachers, Clergy, Employers, Neighbors/Friends, Professionals (doctors, business people).
 - References from relatives are NOT acceptable.

PSCT Science, Technology, Engineering Mathematics Grant Requirements

The Pittsburgh Society for Coatings Technology is a technical society to promote the welfare of the coatings Industry. The Society will be offering an additional grant to one student who is enrolled in a technical course of study. To be considered for this grant, the student must meet the following criteria. If more than one applicant meets the criteria, the award will be made to the student with the highest cumulative grade point average as of application deadline. If no applicant meets the requirements, no grant will be made. The decision of the PSCT Scholarship Committee regarding the grant is final.

Criteria:

- Must meet all other Hiram P. Ball Memorial Scholarship requirements.
- Applicant must have declared a major in Science, Technology, Engineering or Mathematics.
- Applicant must be entering their Junior or Senior year of college or university.
- Applicant must identify course directly associated with declared major curriculum including the degree audit.
- Applicants must highlight within the transcript, the courses that were taken.
- Applicant must have a GPA of 3.0 or greater in these related courses over the past 12 months (including summer school).
- The grant will be an additional \$500 over the Hiram P. Ball Memorial Scholarship award.

Revised 11/2016