



PITTSBURGH SOCIETY FOR COATINGS TECHNOLOGY



<http://paintsociety.org/>

JANUARY 11, 2016



<http://paint.org/>

psct1927@gmail.com

TOPIC: Polyester Dispersion for 2K Water Urethanes

SPEAKER: Michael Knight, Polynt Coatings

PLACE: Walnut Grill
911 Freeport Rd. • Pittsburgh, PA 15238
412-782-4768 • walnutgroverestaurant.com

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

New e-mail for All
PSCT Communication:
psct1927@gmail.com

RESERVATIONS:

Contact Mark DePasquale by
THURSDAY, JAN. 8, 2016 at:
psct1927@gmail.com
or call Mark at:
570-575-5253
or sign up online via PayPal:
www.paintsociety.org

ABSTRACT:

Next Generation Polyester Dispersion for 2K Waterborne Urethane Coatings

Polyester dispersions have been used for years for general industrial coatings. These coatings show excellent gloss, Distinctness Of Image, surface hardness, good chemical and abrasion resistance. Recent advancements have shown marked improvements for direct-to-metal applications with improved hardness and chemical resistance. This paper describes synthesis and formulation considerations, highlighting the benefits this technology offers to the direct-to-metal market. Benchmarking studies against commercially available waterborne 2K urethane technologies exhibit performance characteristics that make it a valid low VOC alternative to current technologies.

SPEAKER BIO:

Michael Knight received his BS in Chemistry from Western Illinois University in 1978 and later completed his MBA at Wayne State University in 1994. After graduating with his BS, he started a 20 year career with BASF Automotive OEM Coatings in product development working on resin development, electrodeposition coatings, high solids primers, Stone Guard™ chip resistant coatings, waterborne basecoats, and etch resistant clearcoats, leading product development teams for the latter three product lines. Later he led development teams for 2K urethane for school bus, waterborne basecoats for Heavy Truck and color keyed primers for automotive TPO bumpers.

In 1998, Mike started working for McWhorter Technologies, now PCCR USA. There he has worked as an Application Chemist, a Technical Market Specialist, and an Account Manager and, now as the Coatings Technical Service Manager. Since 1984, his major focus has been on waterborne resins and coatings including polyester dispersions and alkyd emulsions.

PRESIDENT'S MESSAGE



Dear PSCT Members,

Dear PSCT Members,

Happy New Year! I hope you had an enjoyable holiday season with your friends and family. I would like to start out the year by thanking Jim Wasik for organizing our December event. We had a great turnout of about 30 people for our event at the Pittsburgh Glass

Center. Pictures from the event are included in this newsletter. It was a fantastic time and allowed members to socialize and enjoy the beginning of the holiday season.

Our next meeting is January 11th at Walnut Grill in Fox Chapel. The speaker is Michael Knight from PCCR USA. He will be talking about Next Generation Polyester Dispersion for 2K Waterborne Urethane Coatings. Please join us for the first meeting of 2016!

Christina Marlier

PSCT President 2015-2016

PAINT POT

The December Paint Pot went to **MIKE O'BRIEN**, Matthews Marking. Oh, Mike wasn't there so his \$25 will roll over into a January 2016 Paint Pot of \$50. *Remember, you have to be at the meeting to win.*

2016 MEETING DATES

FEBRUARY 8: Jeff Strobel, Zeeospheres

Topic: Use of ceramic hollow spheres in coatings, inks and plastics.

MARCH 14

APRIL 18: NOTE: This is the THIRD Monday of April to avoid conflict with the ACA Paint Show & Conference the week before.

MAY EVENT: Bring your ideas to the January meeting or send them to Christina Marlier as soon as possible.

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 advertisement displayed in the PSCT monthly newsletter, please contact Mark DePasquale at treasurer@paintsociety.org.

PSCT SCHOLARSHIP

The PSCT Scholarship requirements will remain basically the same as 2015. The following changes have been made:

- 1.) Electronic transcript acceptable.
- 2.) Oral presentations have been removed, however the 200-word essay remains.
- 3.) A 'degree audit' requirement for Grant Application has been added. The student is advised to submit a COMPLETE application including home address. Submission deadline remains March 15, 2016. Please see pages 3 & 4 of this newsletter for the revised form.



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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, 2016

**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, 2016.

Applicant (student): _____

Permanent Address: _____

Phone: _____ Email: _____

PSCT Member Sponsor: _____

Present School/University (2015-16): _____

College/University (2016-17) _____

OFFICIAL CLASS STATUS AS OF DECEMBER 31, 2015:

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 1/2016

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, 2015

ALL APPLICANTS MUST ATTACH A FULL AND DETAILED COPY OF TRANSCRIPT

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

REQUIREMENTS

- The PSCT Board of Directors will determine, in January, 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. The Science, Technology, Engineering and Mathematics grant will be added to the recipient's scholarship award. (See Grant requirements below)
- 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, 2015. (Students must have maintained a minimum of 12 credits per semester to be considered full time), Students graduating from their senior year of high school are also eligible for the award.
- Scholarships may be awarded to any applicant a maximum of four times.
- Applicant must be the child of an actively participating PSCT member who is current with dues. The member must also attend at least four (4) PSCT meetings or events a year or serve as a PSCT Committee Chair.
- Scholarships are limited to one award per applicant per PSCT member per year.
- 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 (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 pursue scientific, engineering or mathematical programs that lead to employment in the Coatings Industry.
- New Applicants must also submit 2 Character References who know the student and their goals:
 - Teachers
 - Clergy
 - Employers
 - Neighbors/Friends
 - Professionals (doctors, business people)

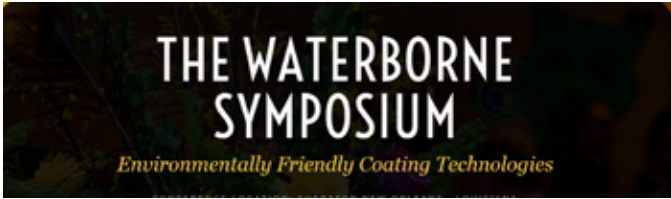
PSCT Science, Technology, Engineering Mathematics Grant Requirements

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 is final in their decision regarding the grant. The decision of the PSCT Scholarship Committee is final in their decision regarding the grant.

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.

2016 UPCOMING CONFERENCES & EVENTS



JAN 31 – FEB 5, 2016

The 43rd Annual International Waterborne, High-Solids and Powder Coatings Symposium

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

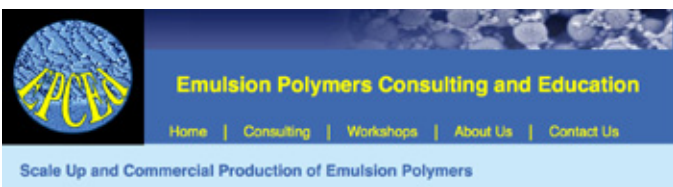
The 43rd Annual International Waterborne, High-Solids and Powder Coatings Symposium will take place January 31-February 5, 2016 in New Orleans, LA



MARCH 6 – 10, 2016

<http://nacecorrosion.org/>

This comprehensive conference is packed with technical education and knowledge exchange plus opportunities to connect with industry experts and peers focused on the prevention and mitigation of corrosion worldwide. Learn from than 1,000 hours of technical symposia, forums, and meetings from 15 unique industry and technology tracks.



MARCH 7 – 10, 2016

<http://www.epced.com/wsscaleup.html>

EPCED – Workshop: Scale-up and Commercial Production of Emulsion Polymers.

The purpose of the workshop is to provide industrial engineers and scientists with an intensive, interactive workshop on the production of synthetic latices in pilot and commercial scale reactors.



FEBRUARY 1, 2016

<http://paint.org/events/meeting-a-conferences/item/1111-coatings-for-concrete-conference.html>

This unique one-day conference, held in conjunction with the World of Concrete Show, will offer innovative, trouble-shooting presentations for those who specify, use, and distribute coatings for concrete. Attendees will receive complimentary show passes to the show upon registration.

The ACA is seeking submissions for its Coatings for Concrete Conference to be held on **February 1, 2016** in Las Vegas, Nev. The conference will be held concurrently with The World of Concrete Show.

The conference will serve as a forum for professionals who develop, specify and use coatings for the protection of concrete and masonry



APRIL 11 – 14, 2016

<http://www.american-coatings-show.com/en/>

Held in partnership with Vincentz Network – publisher of international coatings journals and the organizer of the European Coatings Show and Conference – the American Coatings Show and Conference (ACS/ACC) is an exhibition and technical conference designed as a sister event to the European event. The conference is a 2-day event providing a forum for the foremost scientific minds in the industry, featuring top-notch scientific papers and speakers. The show is a marketplace for presentation of products and services for the production of high-grade and competitive paint and coatings. Held on alternate years with the European Coatings Show and Conference, the next ACS/ACC will take place in Indianapolis, IN

DECEMBER MEETING RECAP

by Jim Wasik

Even though traffic was horrendous, typical for Route 28, about 30 PSCT members, relatives and friends enjoyed a great event at the Pittsburgh Glass Center on December 15, 2016. Sandwiches, pierogis, cheese, sausage, vegies, cookies, brownies, beer and wine – what could have been better. After dinner, the Glass Center technicians demonstrated the construction of a glass item from gathering the hot glass from the 2000F molten glass oven, to coloring, blowing, shaping, reheating, and shaping to finished vase. They also demonstrated what each of the attendees would be doing in making a glass ornament. They gathered the glass, colored it, blew it, shaped it and added the glass eyelet. Then the fun began as each of us chose our color combinations and design, assisted the technician in the blowing of the glass ornament.

Everyone had a fun time and talked about doing this again. Because the ornaments needed to anneal before taking home, we all had to wait to see our finished masterpieces. Some of the activity and finished pieces can be seen in the following photos. A special thanks to all who provided the food and drink. Their generosity help make this the season bright. Here is a link to A LOT of pictures from the event:

<https://christinamarlier.smugmug.com/2015/December-PSCT-Glass-Blowing/n-rbvgt/>



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. MEMBERSHIP DUES (NOTE: DUES INCREASE)

Primary Full Membership \$40 Secondary Full Membership \$40 Student/Educator \$10 Retired Member \$10

*Please indicate primary society membership: _____

5. PAYMENT INFORMATION:

Check payable to PSCT

6. SIGNATURE AND DATE: (Required)

Signature: _____ Date: _____

7. RETURN FORM AND CHECK

Chris Gehly, Matthews International
101 Fairview Ave., Pittsburgh, PA 15238
412-365-2345 / cgehly@matw.com


OFFICIAL USE ONLY:

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

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