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PITTSBURGH SOCIETY FOR COATINGS TECHNOLOGY

NOVEMBER 11, 2019



TOPIC: Evaluation of Coatings with EIS and Other Electrochemical Techniques

SPEAKER: David Loveday
OEM Sales Manager for Gamry Instruments

LOCATION: Roland's • 1904 Penn Ave, Pittsburgh, PA 15222
412-261-3401 • www.rolandspittsburgh.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

PLEASE RSVP:

Contact: Art Kasson by Thursday, Nov. 7 at
psct1927@paintsociety.org

Or Call @ 412-389-4977

Or Sign Up Via PayPal: www.paintsociety.org



SPEAKER BIO:

David Loveday is OEM Sales Manager for Gamry Instruments

David Loveday grew up in the United Kingdom in the London suburbs and received his Ph.D. in Chemistry from the University of Bristol specializing in electrochemistry. He also earned his Bachelors and Masters degree at Bristol. Dave's research advisor was Dr. Rob Hillman.

Dave's research used electrochemical techniques with a Quartz Crystal Microbalance to study polymer films. He even employed EIS to characterize the films!

Dave came to the US for a post-doctoral appointment at the University of Texas at Dallas. He served as the Electrochemist Supreme in Dr. John Ferraris' lab, in which the primary research effort was directed at conductive polymers.

ABSTRACT:

Evaluation of Coatings with EIS and Other Electrochemical Techniques

Electrochemical Impedance Spectroscopy (EIS) is a powerful, non-destructive tool for assessing the properties of paints applied to metal or other conducting surfaces. Although the technique has been around for many years, it is only recently that it has become viewed as an essential tool for all types of coated conducting surfaces.

This talk will introduce the technique including its theoretical background. Guidance on making measurements will be provided as well as general interpretation of results. Several different semi-empirical evaluation methods have been proposed and these will be discussed. In addition, other electrochemical methods like cathodic disbonding and galvanic measurements will be introduced.

PRESIDENTS MESSAGE



Dear PSCT Members,

I would like to thank Kurt Olson, a PPG R&D Fellow, for taking the time last month to share his expertise in new coatings technologies. It was fascinating to hear about innovations such as coatings that can keep an airplane cool and paints that know when corrosion is starting. His slides may be found on the PSCT website.

If you have a student in high school or in college, consider having them apply for the Hiram P. Ball Scholarship, and if your student has a STEM major, the STEM grant as well. See page 7 & 8 for the requirements. The golf outing, which is held every year in September, is the sole fund raiser for the scholarship and grant. Note that the date of the 2020 golf outing has been set for September 10, which is the Thursday after Labor Day. If you might be interested in chairing the 2020 golf outing committee, please talk to someone on the board.

The November 11 meeting will feature a presentation by Dave Loveday of Gamry on EIS and other electrochemical methods. We hope to see you there! Please forward this newsletter to your associates in the Pittsburgh area who might be interested in learning about electrochemical methods.

Cheryl Roberts, PSCT President 2019-2020

UPCOMING MEETING DATES

Dec. 2019 Social Event: See page 3.

Jan. 13, 2020 Kennametal / TBD

Feb. 10, 2020 Joseph Ambrosi, Ashland – TBD

March 9, 2020 Shanti Swarup, PPG Industries
Recent Advancements in Polymer Synthesis and Applications in Coatings

April 20, 2020 Mike Toth, BYK USA

An overview and understanding of market trends, technologies and how proper additive selection can help achieve high quality wood coatings

May 2020 Social Event: Something Fun and Different!

PAINT POT

At the October meeting, Matt Evanovich's name was drawn. He was not present, so the Paint Pot drawing will be for \$50 at the November meeting. In order to be eligible to win, you must be an active member and must be present at the meeting when drawn. If the drawn member is not present, the pot will roll over to the next month.

CALL FOR SPEAKERS

We are beginning to look for speakers for the 2020-2021 year. If you are interested in presenting, please contact Cheryl Roberts at cheryl.l.roberts@sherwin.com.

PROGRAM COMMITTEES

If you would like to help with the December or May social event, please let a board member know.

MEMBERSHIP DRIVE

A drawing is held every year at the October meeting for the special PSCT Anniversary Membership Award. This year the winner was PSCT's membership chairperson, Jeff Scherm. To be eligible for the drawing, dues had to have been paid by September 30. Not surprisingly, our membership chair has paid his dues! Jeff won \$92, \$1 for each of the 92 years that the PSCT has been in existence. It is never too late to join or renew your membership. See page 5 or <https://paintsociety.com/join/>. If you have not joined yet, please join now. Help keep the PSCT vital to the Pittsburgh area coatings industry.

HIRAM BALL SCHOLARSHIP

Are you a PSCT member? Do you have a child who will be in college next year? Looking for financial aid? PSCT offers scholarships to children of PSCT members who are attending college. A special grant is also offered to upcoming Junior or Senior students following a STEM curriculum. In 2019, five students received \$1300 to aid in their education. For more details and requirements, see pages 7 & 8 of this newsletter or visit the PSCT website.

CONSTITUTION & BYLAWS

Review of the PSCT Constitution and Bylaws is required every 5 years. The last revision was issued in April 2020, so it is now time for this 12 page document to be reviewed again. If you would like to chair or serve on this committee, please let a board member know.

WEBSITE

Please visit <http://www.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. You can also renew your membership directly online.



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MONDAY, DECEMBER 9, 2019 AXE THROWING TOURNAMENT



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PSCT Repeat Performance at Lumberjaxes – II

It was a great success & fun last May, so we are going back on Monday, December 9, 2019 from 6 to 8:30 pm. PSCT members, guests & friends – **BRING IT ON!** Round robin elimination until Champ Axe Thrower has hit the bullseye! (No experience necessary.) Closed-toe shoes required.

Cost - \$50 / per person

RESERVATION DEADLINE NOVEMBER 30

Space is Limited. RSVP/Pay online: www.paintsociety.org
or RSVP to: psct1927@paintsociety.org or call Art Kasson: 412-389-4977

UPCOMING EVENTS

PSCT 2019 Fall Symposium: Emerging Technologies in Industrial Coating

Technical presentations will share a variety of innovations.

NOVEMBER 7, 2019 TIME: 8:00 AM

Spring Mill Country Club, 80 Jacksonville Rd, Ivyland, PA 18974
\$90 for Philadelphia SCT members and \$120 for Non-Philadelphia SCT members
Visit <http://psct.org/> to register (pay by credit card).
To pay by check, please make out to PSCT and mail to:
315 E. 4th St. Rear, Bridgeport, PA 19405

NACE Western Area Conference

November 12 - 14 • Hilton Long Beach Long Beach, CA United States

CHINACOAT 2019

November 18 - 20 • Shanghai New International Expo Centre Shanghai, China



UPCOMING 2019 ACA WEBINARS

NOTE: MEMBERS ONLY

ACA Webinar: U.S and Canadian AIM VOC Regulations

November 14 @ 1:00 pm - 2:00 pm

ACA Webinar: ACA's Revised Guide to Training Hazmat Transport Employees

December 5 @ 1:00 – 2:00pm



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PSCT Membership Application and Dues Renewal Form for 2019 - 2020

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:

Art Kasson, Kruss USA
180 Bradford Road
Bradfordwoods, PA 15015
412-389-4977 / akasson@krussusa.com


OFFICIAL USE ONLY: _____


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

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PSCT OFFICERS AND BOARD OF DIRECTORS 2019-2020

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2001 Tracy Street; Pittsburgh, PA 15233
412-732-3051; cheryl.l.roberts@sherwin.com

Vice-President: Chris Chaousy

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304-993-1541; cchaousy@coalfillers.com

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724-468-3125; andersonb@troycorp.com

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Matthews International
6515 Penn Ave., Pittsburgh, PA 15206
412-365-2345; cgehly@matw.com

Representative to ACA Society Liaison Committee: Mark DePasquale

Matthews International
6515 Penn Ave., Pittsburgh, PA 15206
412-365-2347; mdepasquale@matw.com

COMMITTEES:

Scholarship Committee: Karen Hollertz

PPG industries; 400 Guys Run Road, Cheswick, PA 15024
412-517-3637; hollertz@ppg.com

Membership: Jeff Scherm

Lanxess Corporation
8 Morgan Road; Burgettstown, PA 15021
412-809-1038; Jeffrey.scherm@lanxess.com

Golf / Fund Raising: Art Kasson

Kruss USA
180 Bradford Road; Bradfordwoods, PA 15015
412-389-4977; akasson@krussusa.com

Communication Committee: Jim Wasik

70 Woodland Farms Rd, Pittsburgh PA 15238
412-967-9541; jawasik@verizon.net

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 Art Kasson at psct1927@paintsociety.org.



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Pittsburgh Society for Coatings Technology Hiram P. Ball Memorial Scholarship

PSCT Science, Technology, Engineering Mathematics Grant Application – 2020 - 2021

APPLICATION DEADLINE: MARCH 15, 2020

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@paintsociety.org. An endorsement e-mail by the Sponsoring PSCT Member(s) must be submitted to psct1927@paintsociety.org.

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, 2020.

Applicant (student): _____

Permanent Address: _____

Phone: _____ Email: _____

PSCT Member Sponsor: _____

Present School/University (2019-20): _____

College/University (2020-21) _____

OFFICIAL CLASS STATUS AS OF DECEMBER 31, 2019:

☐ 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: _____

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, 2020

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, 2017. (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. Multiple Grants will be awarded to students who have equal highest GPA, rounded to 2 decimals, in qualifying STEM courses. If no applicant meets the requirements, no grant will be made. Must meet all other Hiram P. Ball Memorial Scholarship requirements.

Criteria:

- 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
- 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
- **Multiple Grants will be awarded to students who have equal highest GPA in qualifying STEM courses.**