UPCOMING EVENTS

January 10, 2024
Dinner Meeting
Membership Night
DoubleTree by Hilton
Buena Park, CA

February 7, 2024
Social Meeting
Brewery X
Anaheim, CA

March 13, 2024
Dinner Meeting
Membership Night
DoubleTree by Hilton
Buena Park, CA

JANUARY DINNER MEETING SPONSOR

azelis

JANUARY BULLETIN

Plan for the Future

January 10, 2024

Please join us as we honor our retired members!

VERSATILE APPLICATIONS OF CARBON NANOTUBE MATERIALS INCLUDING ELECTRICALLY CONDUCTIVE EPOXY SYSTEMS

SPEAKER: MITCH BUCHANAN
Business Development for Specialty Components
Huntsman Advanced Materials

End user demand for stronger, lighter, and more sustainable products continue to drive innovation in available raw materials. Often these innovations take the form of new materials that can be used as an additive in small quantities to have an outsized impact on end formulation performance. Carbon materials like graphene or carbon nanotubes are one such additive that can be an essential element of high-performance formulations.

Carbon nanotube bundles technology is a new innovation that turns a potential waste stream into unique and highly useful carbon material that can be used in formulating high performance thermosets, and thermoplastics for use in coatings, composites, adhesives and industrial materials. Differentiated from

(cont'd on page 2)

MEETING DETAILS:

LOCATION: DoubleTree by Hilton Buena Park Hotel, 7000 Beach Blvd., Buena Park, CA 90620

TIME:

Social Hour	5:30 pm
Speaker	6:00 pm
Dinner	7:00 pm

PLEASE NOTE: Dinner meeting prices have increased for regular members and non-members. Retired members remain at $25.00.

PRICE:
$ 25.00 retired members w/reservation by 12:00 p.m. Monday, January 8
$ 35.00 members w/ reservation by 12:00 p.m. Monday, January 8
$ 45.00 non-members w/reservation or reservation after 12:00 p.m. Monday, January 8

RSVP: Click here to pay online or email lasct@earthlink.net

SPEAKER AND TOPIC

(cont'd from page 1)

but analogous in description to carbon nanotube technology, carbon nanotube bundles can be used to improve heat resistance, compressive strength, and electrical conductivity in various formulations including Electrostatic Discharge (ESD) coatings.

Speaker Bio:

Mitch Buchanan is Business Development for Specialty Components at Huntsman Advanced Materials. After serving in the US Navy, he joined CVC Thermoset Specialties in 2016 which was then acquired by Huntsman in 2020. He has established a broad base of experience in technical service, sales, marketing, supply, financial analysis, and plant operations management across the multiple chemistries and end markets served by Huntsman.

Mitch has a B.S. in Civil and Environmental Engineering with a minor in International and Military Affairs from The Citadel. He currently lives in Texas with his wife, and four children.

MONTHLY DRAWINGS:

Door Prize	Gift Card
Attendance	$480.00

December Meeting Winners:

Door Prize	Tom Renner *Behr Paint*
Best Question	Pat Lutz, *EPS - Materials*
Attendance	$ 460.00 Francis Bautista *(Not Present)*

PROPOSED NEW MEMBERS

Local Membership

Liang Ding, *Fenchem*
Ryan Kim, *Fenchem*
Christopher Valovic, *BASF*

LASCT FEBRUARY EVENT
FEBRUARY 7, 2024

Brewery X
3191 E. La Palma Avenue
Anaheim, CA 92806

5:00 pm - 8:30 pm

Beer, pizza, LASCT members...what more could you ask for??

The February event will be a social get-together at Brewery X in the Biergarten. Brewery X is an Independent Craft Brewery, located in Anaheim on the La Palma Beer Trail.

More information is on the enclosed flyer.

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CAL POLY SLO POLYMERS & COATINGS WINTER SHORT COURSE

The Western Coatings Technology Center at California Polytechnic State University, San Luis Obispo, in cooperation with Cal Poly Conference & Event Planning Department, will offer the annual Winter Polymers and Coatings Short Course during the week of Monday, February 19th at 8 a.m. through Friday, February 23rd at noon. **Early Bird Pricing ends on Friday, January 19th.**

Cal Poly's summer short course on polymers and coatings brings together academic and industrial experts in the field. The one-week course covers many aspects of coating technology with emphasis on liquid coatings, both waterborne and solvent-based.

Participants benefit from discussions of a wide range of topics by industry and academic experts, including VOC and air quality aspects of coatings agencies. Participants are expected to have had some exposure to the coatings field, along with working knowledge in chemistry and other sciences Enclosed please find the Winter Course Brochure.

LASCT IS ON FACEBOOK!

Search for Los Angeles Society of Coatings Technology page on Facebook. Check it out to view upcoming social events and historical photos. If you'd like to add something to the page, feel free to contact your Board of Directors.

LASCT IS ON LinkedIn!

Los Angeles Society of Coatings Technology now has a page on LinkedIn. Check it out to view upcoming events and information regarding the coatings industry.

GOOD FELLOWSHIP NEWS

To report any new "happenings", please contact the Derek Marin, Good Fellowship Chair at dmarin@vistapaint.com or the LASCT Office at (714) 998-1891, or by email at lasct@earthlink.net.

EMPLOYMENT

Companies in the coatings industry are hiring! Employment opportunities are posted on the LASCT website at lasct.org and are included in the bulletin. Postings are updated regularly.

MARK YOUR CALENDARS!

Please mark your calendars for the March Meeting which will be held on Wednesday, March 13, 2024. As always, meetings are held on the second Wednesday of each month.

Kelly Chen
2023-2024 LASCT Secretary

Visit www.lasct.org for more information regarding upcoming meetings, events and job postings.

THE LOS ANGELES SOCIETY FOR COATINGS TECHNOLOGY /
www.lasct.org

LASCT February Special Event

February 7, 2024

Brewery X
3191 E. La Palma Avenue
Anaheim, CA 92806

5:00 p.m. to 8:30 p.m.

Brewery X is an Independent Craft Brewery,
located in Anaheim on the La Palma Beer Trail.

Ever wonder how beer is brewed? The Brewery X Beer Master will be offering a tour of the facility that showcases their unique style. Learn about the history, culture, and craft of beer making. Come and try a Brewery X craft beer or hard seltzer. There is something for everyone.

At Brewery X, they believe that beer is more than just a liquid in a glass. It's about the people we cross paths with and the friendships we make over a pint.

Price: $ 50.00 per person

Name:_____ Phone:_____

Company:_____ Email:_____

Address:_____

City, State, Zip_____

No. of reservations _____ at $ 50.00 = $_____

Total Amount Due **$**_____

Pay online at www.lasct.org or
mail this form with check to LASCT, P.O. Box 3633, Orange, CA 92857

CAL POLY
SAN LUIS OBISPO

Kenneth N. Edwards Western Coatings Technology Center

POLYMERS & COATINGS WINTER SHORT COURSE

February 19-23, 2024

Polymers and Coatings Program at Cal Poly

California Polytechnic State University, San Luis Obispo, is one of the 23 campuses of the California State University system. Cal Poly enrolls over 20,000 students and is nationally recognized for the excellence of its programs in architecture, agriculture, engineering, and the sciences. The Polymers and Coatings program, an integral part of the Chemistry and Biochemistry Department of the Bailey College of Science and Mathematics, offers both an Undergraduate Concentration and a Masters degree in Polymers and Coatings Science.

Short Course Overview

Cal Poly's winter short course on polymers and coatings brings together academic and industrial experts in the field. The one-week course covers many aspects of coating technology with emphasis on liquid coatings, both waterborne and solvent-based. Participants benefit from discussions of VOC and air quality aspects of coatings by experts in both industry and government regulatory agencies. Participants are expected to have had some exposure to the coatings field along with working knowledge in chemistry and other sciences. The course will convene at 8:00 AM on Monday and end at 12:00 noon on Friday.

Travel and Accommodations

San Luis Obispo is in California's Central Coast region, 200 miles north of Los Angeles and 230 miles south of San Francisco. Participants who wish to drive from the Los Angeles or San Francisco areas may take Route 101. All major airlines offer services to San Luis Obispo Airport with connecting flights from Dallas-Fort Worth, Denver, Las Vegas, Los Angeles, Phoenix, San Francisco, and Seattle. The San Luis Obispo Chamber of Commerce website (https://visitslo.com/) contains information for local hotels. Lodging is not included in the program fee.

Registration and Fees

Course registration fee is $1850 if received on or before January 19, 2024 and $1950 if received on or after January 20, 2024. Participants must register online. Course registration fee covers hard and soft copies of handouts, refreshments, and luncheons for Monday through Thursday.

For more information, contact Dr. Ray Fernando at rhfernan@calpoly.edu or visit www.wctc.calpoly.edu

TENTATIVE AGENDA

Monday, February 19

- Coating Industry & Formulation Overview
- Resin Technologies (Overview, Solvent, 2K)
- Pigments and Fillers
- Resin Technologies (Waterborne. Opaque Polymers)

Tuesday, February 20

- Additives for coatings
- Characterization (MW, Spectroscopy, etc.)
- Coating Rheology & Rheology Modifiers
- Color and Appearance

Wednesday, February 21

- Modern Methods of Surface Analysis
- Thermal Properties, Film Formation & Curing
- Tour of Facilities

Thursday, February 22

- Polyurethane and UV/Radiation Cure Technology
- Pigment Dispersion
- Coating Rheology-Applications
- Colloid Characterization Methods
- Formulating for the Environment
- VOC/Air Quality-Regulations, Analysis and Measurement

Friday, February 23

- VOC Compliant Resin and Colorant Technologies
- Specialty Filters
- Coating Service Life Prediction
- Wrap Up and Evaluations

Western Coatings Technology Center | California Polytechnic State University
San Luis Obispo, CA 93407 | 805-756-2395
pandc@calpoly.edu | www.wctc.calpoly.edu

SHORT COURSEINSTRUCTORS

Kent Maghacut (Technical Marketing Manager, Lubrizol Corporation) received his BS and MS degrees in Chemistry from Villanova University in PA. He is a Technical Marketing Manager for the Performance Coatings Group with Lubrizol Advanced Materials based in Brecksville, OH. He is responsible for the resins & polymers, hyperdispersants, and surface modifier portfolios for accounts on the US West Coast. Prior to working with Lubrizol, Kent was a technical service chemist with Ashland Specialty Ingredients for 9 years promoting and formulating with cellulosic and synthetic rheology modifiers, phosphate ester surfactants, and defoamers.

Gary Dombrowski (Research Fellow, Dow Chemical Company) received his Ph.D. in chemistry from the University of Minnesota in the area of physical organic chemistry. He worked as a postdoctoral research associate at the University of Rochester's NSF Center for Photo-induced Charge Transfer. In 2000, he became a Synthesis Group Leader within Architectural and Functional Coatings, supporting the development of binders for the decorative paint market.

Daniel Kraiter (Research Associate, Chemours Company) received BS&MS degrees from Polytechnic University of Bucharest, Romania in 1988, in Chemical Technology. He received his PhD in Bio-inorganic Chemistry from Duke University, Durham NC in 1998. Daniel's carrier in coatings and inks started in 1997 when he was hired by DuPont. His Initial assignment was in Ink Jet Inks R&D division (polymer synthesis, pigment dispersions, ink evaluations). In 2005 he transferred to DuPont Titanium Technologies to work on technology development for new TiO2 pigments. Currently, he is in the Chemours R&D Group working on technology development and product development for new TiO2 grades with a focus on polymer-pigment interactions.

Ray Fernando (Professor, California Polytechnic State University) received his Ph.D. in 1986 from North Dakota State University in Polymers and Coatings, emphasizing studies in the coating rheology field. He has fifteen years of industrial experience in coatings, with extensive knowledge in waterborne technology. Since 2002 he has been the occupant of Arthur C. Edwards Endowed Chair in the Department of Chemistry and Biochemistry and the Director of Kenneth N Edwards Western Coatings Technology Center at Cal Poly. He spent 3 years in R&D at Air Products and Chemicals and 12 years at Armstrong World Industries.

Leslie Hamachi (Assistant Professor, California Polytechnic State University) received her PhD from Columbia University in 2018 where she received the Pegram Award for her thesis work on developing a library of new chalcogen precursors for use in rate-controlled core/shell nanocrystal synthesis. She obtained her BS in chemistry, with a concentration in materials chemistry, in 2013 from the University of California, Berkeley, graduating with honors. After completing her PhD, she joined Prof. William Dichtel's group at Northwestern University as an NSF Center for Sustainable Polymers postdoctoral research fellow. Dr. Hamachi joined the Chemistry & Biochemistry department at Cal Poly in 2020 as a tenure-track faculty member. Prior to joining Cal Poly, Dr. Hamachi worked in nanocrystal colloid R&D and manufacturing at Oxonica Materials, Inc., and taught as an adjunct professor at the Fashion Institute of Technology.

Dane Jones (Emeritus Professor, California Polytechnic State University) received his Ph.D. in Physical Chemistry from Stanford University in 1974. He has held research and teaching positions at Uppsala University, the University of Utah and The University of California, San Diego. He joined Cal Poly faculty in 1976. He was instrumental in developing the Polymers and Coatings program at Cal Poly and was director of the program until 2002. His research interests include spectroscopic analysis of polymers and coatings, and VOC analysis. He is the recipient of Cal Poly's Distinguished Teacher Award and Los Angeles Coating Society's Distinguished Service Award.

Michelle Gabriel-Caldwell (Applied Technology Specialist, BYK Additives Company) has been with BYK USA Business Line Paint for over 18 years, and is currently the Senior Technical Representative for the Atlantic Region. In addition to those duties, she is the North American Applied Technology Specialist for Wetting & Dispersing Additives for all of BYK's Business Lines. She was formerly the BYK USA End Use Specialist for Powder Coatings for 11 years. Michelle began her coatings career at Benjamin Moore as an analytical chemist in 1992; after 3 years she advanced to product development chemist where she formulated various specialty solvent borne coatings. Michelle holds degrees in Chemical Engineering and Chemistry. .

Pat Lutz (Technical Sales, EPS Color Corp) received a B.A. and a Ph.D. from Syracuse University in 1964 and 1970, respectively. He held many Technical Service, Market Research and Sales positions with DuPont Pigments and Chemicals Groups over a 25-year span. In 1993, he joined Dunn-Edwards Corporation as the Slurry Project Manager and was the Director of Labs and interfaced with extensively with regulatory agencies dealing with VOC discussions. In 2002, Pat joined EPS as the west coast Technical Sales Representative focusing on architectural resins and colorants. In this position, he has maintained an involvement in VOC discussions with regulators throughout North America.

Jim Macdonald (End Use Manager, BYK-Gardner USA) is Business Line Manager – Industrial paint and coatings applications.

Scott Van Remortel (Manager, Technology and Innovation Covia Corporation) received a B.S. degree in Polymers and Coatings Technology from Eastern Michigan University in 1992. Scott is an active member of the Industrial Advisory Council for the Polymers and Coatings Program at Cal Poly, San Luis Obispo. In addition, he is a Past President and is the current technical chair of the Piedmont Society for Coatings Technology.

Erik Sapper (Associate Professor, California Polytechnic State University) received his PhD in Coatings and Polymeric Materials from North Dakota State University in 2013. He has a BS in Chemistry (2006) and MS in Polymers and Coatings Science (2007) from California Polytechnic State University. Since 2010 he has worked in the Chemical Technology division of Boeing Research & Technology, taking on various principal investigator and project manager roles. Prior to joining Cal Poly in 2016, Dr. Sapper was located in St. Louis, Missouri, where he led teams at multiple sites working on polymer synthesis, coatings formulation, service lifetime prediction, and test method development.

Todd Williams (Corrosion Manager, Covestro Company) Dr. Todd Williams has been responsible for technical activities in the protective and marine market at Covestro LLC since 2012. In 2009, Williams joined Covestro developing UV-curable coating formulations after leaving Segetis where he synthesized renewable polyols. He is a NACE-certified Coating Inspector Level 2 and holds a Ph.D. from The University of Southern Mississippi where he wrote his thesis on crosslinking latex coatings.

Shanju Zhang (Professor, California Polytechnic State University) received his Ph. D. in Polymer Chemistry and Physics from Jilin University, China in 1998. Prior to joining the Cal Poly faculty in 2011, he held research positions at Yale University, Georgia Tech, Cambridge University, Technical University of Berlin and Chinese Academy of Sciences. His research interests include synthesis, structural analysis and processing of polymers, liquid crystals and nanomaterials. He is the recipient of the Alexander von Humboldt Fellowship.

University of Massachusetts, Lowell
Spring 2024 semester – Online Graduate Course

PLAS.5330 – Green Coatings Science & Technology I

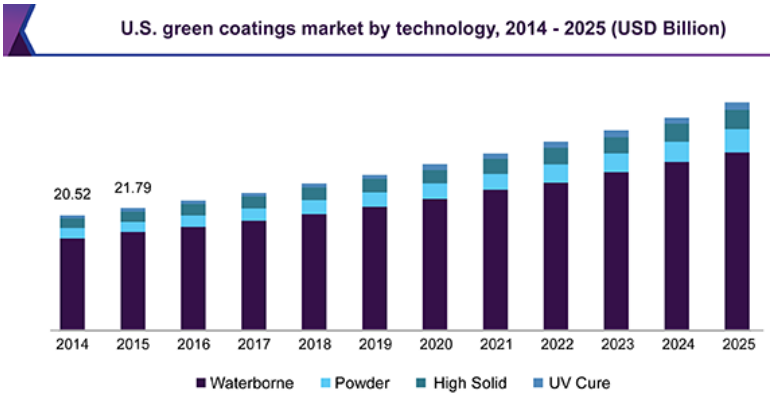
Professor: **Dr. Bridgette M. Budhlall**
Email: Bridgette_Budhlall@uml.edu

Offering: **On-line**

Audience:
This course is aimed at technologists and scientists conducting research and development in all areas of functional coatings in academia and industry who want to understand the underlying science to the empirical technology of coatings, learn about the latest developments in how coatings can be formulated sustainably in various applications including superhydrophobic, ice-phobic, antimicrobial, self-healing and exterior architectural applications.

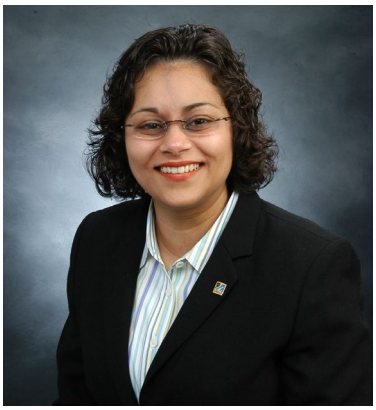
Description: This course reviews the basic principles of design and formulation of waterborne, high-solids, powder resins used for the development of solvent-less "green" or sustainable coatings and the use of bio-derived resins, mostly based on soybean oil and other renewable raw materials. The mechanisms and methods of curing and of polymerization for polymers used as green coatings will also be covered.

Registration details:
Graduate Online and Professional Studies -
https://gps.uml.edu/general/registration.cfm



The global green coating market size was estimated at USD **131.22 Billion** in 2023. Increasing stringent government regulations associated with VOC is expected to propel demand. This course will also cover the drivers for the rising demand for waterborne and powder technology to replace solvent borne coatings especially in the architectural and automotive industries.

Instructor Biography



Hello, I am Professor Bridgette M. Budhlall and I am the instructor for the online graduate course – **PLAS.5330 – Green Coatings Science & Technology I**.

Course Description

This course reviews the basic principles of design and formulation of waterborne, high-solids, powder resins used for the development of solvent-less "green" or sustainable coatings and the use of bio-derived resins, mostly based on soybean oil and other renewable raw materials. The mechanisms and methods of curing and of polymerization for polymers used as green coatings will also be covered.

Who Should Attend?

I designed this course specifically aimed at technologists and scientists conducting research and development in all areas of functional coatings in academia and industry who want to understand the underlying science to the empirical technology of coatings, learn about the latest developments in how coatings can be formulated sustainably in various applications including superhydrophobic, ice-phobic, antimicrobial, self-healing and exterior architectural applications.

About The Instructor

I am currently a Full Professor and Associate Chair of Doctoral Programs in the department of Plastics Engineering at the University of Massachusetts, Lowell. After graduating from Lehigh University with a PhD in Polymer Science and Engineering in 2000, I spent 7 years in industry at Air Products and Chemicals, Inc. where I conducted research on the synthesis of latexes for coatings and developed photoresist polymers and immersion fluids for microlithography applications. I completed a brief stint at the department of Chemical and Bimolecular Engineering at North Carolina State University, before being recruited to join the Plastics Engineering department at UMass, Lowell.

In my current position, my lab conducts research on the synthesis of nanostructured polymers that are useful in variety of industrial applications ranging from biosensors, chemical sensors and nanofluidic devices, smart coatings and adhesives, drug delivery systems and biomedical devices. I am also committed to teaching, mentoring and training the next generation of Plastics Engineers for leadership positions in Industry, Academia and Government. My regular course offerings cover organic and physical polymer science (junior level courses), green coatings science and technology and adhesives and adhesion (graduate level courses).