2022 Short Course Schedule

Monday, June 6, 2022
7:00 A.M. – 8:00 A.M. Course Registration
Rauch Business Center 291/292/293
8:00 A.M. – 9:30 A.M. Lecture 1
Free Radical Polymerization Mechanisms and Kinetics (F. Joseph Schork)
9:30 A.M. – 9:45 A.M. Coffee Break
9:45 A.M. – 11:15 A.M. Lecture 2
Emulsion Polymerization Mechanisms and Kinetics (F. Joseph Schork)
11:15 A.M. – 11:30 A.M. Coffee Break
11:30 A.M. – 1:00 P.M. Lecture 3
Branching and Grafting in Emulsion Polymerizations (Peter A. Lovell)
1:00 P.M. – 2:00 P.M. Lunch
Rauch Business Center 291/292/293
2:00 P.M. – 3:30 P.M. Lecture 4
The Role of Surfactants in Emulsion Polymerization and Kinetics (Mohamed S. El-Aasser)
3:30 P.M. – 3:45 P.M. Coffee Break
3:45 P.M. – 5:15 P.M. Lecture 5
Semi-Continuous Emulsion Polymerization and Structured Latexes (Michael F. Cunningham)
7:00 P.M. – 9:00 P.M. Mixer
Campus Pizza

Tuesday, June 7, 2022
8:00 A.M. – 9:30 A.M. Lecture 6
Colloidal Stabilization and Destabilization Mechanisms of Latex Systems (Mohamed S. El-Aasser)
9:30 A.M. – 9:45 A.M. Coffee Break
9:45 A.M. – 11:15 A.M. Lecture 7
Experimental Methods for the Characterization of Latex Particle Size and Particle Size Distribution (Cesar A. Silebi)
11:15 A.M. – 11:30 A.M. Coffee Break
11:30 A.M. – 1:00 P.M. Lecture 8
Correlation between Colloidal Structure and Properties of Acrylic Latexes (Bernd Reck)
1:00 P.M. – 2:00 P.M. Lunch
Rauch Business Center 291/292/293
2:00 P.M. – 3:30 P.M. Lecture 9
Inverse Emulsion Polymerization (Donna Visioli)
3:30 P.M. – 3:45 P.M. Coffee Break
3:45 P.M. – 5:15 P.M. Lecture 10
Latex Film Formation (Peter A. Lovell)

Wednesday, June 8, 2022
8:00 A.M. – 9:30 A.M. Lecture 11
Monodisperse Latices Prepared by Inverse Emulsion Polymerization (Cesar A. Silebi)
9:30 A.M. – 9:45 A.M. Coffee Break
9:45 A.M. – 11:15 A.M. Lecture 12
Living Radical Polymerization and Advances in Future Directions for Emulsion Polymer/Polymers (Andrew Cunningham)
11:15 A.M. – 11:30 A.M. Coffee Break
11:30 A.M. – 1:00 P.M. Lecture 13
Nanoscale Colloids: Physics and Applications (Andrew Hollingsworth)
1:00 P.M. – 2:00 P.M. Lunch
Rauch Business Center 291/292/293
2:00 P.M. – 3:30 P.M. Lecture 14
Biorheology (Cesar A. Silebi)
3:30 P.M. – 3:45 P.M. Coffee Break
3:45 P.M. – 5:15 P.M. Lecture 15
Waterborne Pressure Sensitive Adhesives (Ying-Yeh Lu)

Thursday, June 9, 2022
8:00 A.M. – 9:30 A.M. Lecture 16
Sensors and Controls for Emulsion Polymerization Reactors (F. Joseph Schork)
9:30 A.M. – 9:45 A.M. Coffee Break
9:45 A.M. – 11:45 A.M. Lecture 17
Fundamentals and Advancement of Waterborne Epoxy and Polyurethane (Bedri Erdem)
11:45 A.M. – 12:00 P.M. Coffee Break
12:00 P.M. – 1:00 P.M. Lecture 18
Recent Patent Activity Involving Emulsion Polymers (Donna Visioli)
1:00 P.M. – 2:15 P.M. Picnic Lunch
BRC Courtyard
2:15 P.M. – 3:45 P.M. Lecture 19
Requirements and Challenges for Industrial Latex Applications (Bernd Reck)
3:45 P.M. – 4:00 P.M. Coffee Break
4:00 P.M. – 5:30 P.M. Lecture 20
Water-Borne Soft-Soft Nanocomposites: Principles and Application Case Studies (Peter Lovell)
7:00 P.M. – 9:00 P.M. Lecture 21
Questions and Answers (Lecturers and Participants)

Friday, June 10, 2022
8:00 A.M. – 9:30 A.M. Lecture 22
Monodisperse Latices – Preparation, Surface Modification, Characterization and Applications (Mohamed S. El-Aasser)
9:30 A.M. – 10:00 A.M. Coffee Break
10:00 A.M. – 11:30 A.M. Lecture 23
Reactors Design and Scale-up in Emulsion Polymerization (Michael F. Cunningham)
Please visit our website for further registration details, downloadable and on-line registration forms, abstracts of the lectures, biographies of the speakers and other logistics details.
http://wordpress.lehigh.edu/inadvemu/
For more information, or to mail in a registration form or check:
Please contact: Debra Hartzell Nyby, Department of Chemical and Biomolecular Engineering | Lehigh University
111 Research Drive, Bethlehem, PA 18015-4732
Phone: 610-758-3607/Fax: 610-758-5880
Email: debra.nyby@lehigh.edu
“Advances in Emulsion Polymerization and Latex Technology”

June 6-10, 2022

Course Organizer
DR. MOHAMED S. EL-AASSER
Professor Department of Chemical and Biomolecular Engineering

Course Design
The course is an in-depth study of the synthesis, characterization, and properties of high polymer latexes. The subject matter includes a balance of theory and applications as well as a balance between chemical and physical problems. Lectures will be given by leading academic and industrial workers. Lectures will begin with an introductory material and reviews, and will progress through recent research results and industrial application.

Location and Time
Rauch Business Center | Lehigh University
621 Taylor Street | Bethlehem, Pennsylvania 18015

Registration/Check In: Monday, June 6th 7:00 a.m. – 8:00 a.m. at Rauch Business Center 291/292/293

All Lectures will be held in the Rauch Business Center, Perrella Auditorium, Room 184

• Lectures will start at 8:00 A.M. Monday to Friday.

• Lectures on Friday will end by 1:00 P.M.

Participants
The course is designed for engineers and scientists who are actively involved in emulsion work as well as for those who wish to develop expertise in the area. A basic background in chemistry will be assumed. More advanced and experienced participants may elect to attend only those days in which material of specific interest is being presented. All participants will receive a printed set of course notes as well as additional supplementary course materials in PDF format.

Fees
$1,650 for the entire five (5) days or $825 per day for any portion of the course attended. Some discounts are available; see the course registration section for details.

Fees cover registration, a set of notes, five (5) days of beverages at break, lunch provided for four (4) days, and a Pizza Mixer for participants’ networking on Monday evening.

Payment Options:
• Credit Card Payments can be completed on line. Please go to the following website to register for the course, university housing, and university parking to pay by credit card (Visa, Master Charge, or American Express). http://wordpress.lehigh.edu/inadvemu/

• Checks payable to Lehigh University should accompany application, which can be downloaded at the following website or using the brochure registration form. http://wordpress.lehigh.edu/inadvemu/

• If you require an invoice prior to making payment, please send your registration form for the course, university housing, and university parking to Debra Nyby at debra.nyby@lehigh.edu or fax the form to 610-758-5880 and an invoice will be sent to you.

Refund requests received before May 1, 2022 will be honored in full. After May 1st there will be a processing charge of $825 deducted for meeting cancellation and a processing charge of one night ($65.00) for housing cancellations. Please note: Individuals who cancel and are assessed the $825.00 cancellation fee will be provided with a set of the Short Course Notes.

Accommodations
Modern air-conditioned University dormitories are available within several blocks of the conference site. Linens are provided. Single occupants may share a suite (living room and bathroom) with two (2) other course participants. Each person will have a private bedroom. Please see the following site for a description of the Farrington Square dormitories: http://www4.lehigh.edu/housing/residencehalls/su/campusquare.aspx

A processing charge ($65.00) of one night will be deducted for housing cancellations after May 1, 2022.

A Continental Breakfast will be available to course participants at Rauch Business Center on June 6th only. Beverages at break will be provided with breaks throughout the day. Lunches from Monday to Thursday are also included and a Pizza Mixer on Monday evening.

Hotels/motels are for the most part far from campus (except for Comfort Suites) and will require transportation. Hotel/motel reservations should be made by contacting the hotel/motel directly.

Please be sure to mention you are coming to Lehigh University and request the Lehigh University rate.

Comfort Suites *
120 West Third Street, Bethlehem, PA: 610-982-9700

Holiday Inn Express Hotel & Suites
2201 Cherry Lane, Bethlehem, PA: 610-638-6110

Historic Hotel Bethlehem
437 Main Street, Bethlehem, PA: 610-625-5000

Hyatt Place
45 West North Street, Bethlehem, PA 18018; 610-625-0500

* Only hotel within walking distance of the university.

Transporation an Locale
Bethlehem is located in the heart of the Lehigh Valley about 50 miles north of Philadelphia and 80 miles west of New York City.

It is easily accessible by plane via the Lehigh Valley International Airport (formerly known as the ABE, Allentown-Bethlehem-Easton Airport), by car via the east-west Route 78 (22) and the north-south Northeast Turnpike Extension (I-476) and Routes 309 and 378, or by bus from New York City (Port Authority Terminal).

Driving Instructions to Rauch Business Center, Lehigh University: http://www1.lehigh.edu/about/maps-directions-rauch-business-center

Driving Instructions to Farrington Square (on campus housing) http://www.lehigh.edu/campusmap/mapiloc=Campus%20Square%20A-D

Course Registration Form
Participants may reserve a space for the Short Course by completing the form, and either:

(1) Mail the registration form in, along with a check payable to: Lehigh University

Ms. Debra Hartzella Nyby
Lehigh University
111 Research Drive
Bethlehem, PA 18015-4732 USA

Telephone: (610) 758-3607
Fax: (610) 758-5880

e-mail: debra.nyby@lehigh.edu

OR (2) Completing the form below and sending it as an e-mail attachment to Debra Hartzella Nyby at the e-mail address listed above and indicating whether you will be sending a check or if you would like to be sent an invoice.

OR (3) Registering on line at the short course’s website and paying by credit card, http://wordpress.lehigh.edu/inadvemu/

Name ______________________________________________________________

Telephone                                                Fax

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Street Address 1 __________________________________________________

Street Address 2 __________________________________________________

Organization ______________________________________________________

Title _______________________________________________________________

City                                                             State                    Zip Code

_____________________________________________________________________

Name ______________________________________________________________

Telephone                                                Fax

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Street Address 1 __________________________________________________

Street Address 2 __________________________________________________

Organization ______________________________________________________

Title _______________________________________________________________

City                                                             State                    Zip Code

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Name ______________________________________________________________

Telephone                                                Fax

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Street Address 1 __________________________________________________

Street Address 2 __________________________________________________

Organization ______________________________________________________

Title _______________________________________________________________

City                                                             State                    Zip Code

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OR (1) OR (2) OR (3) __________________________________________

PLEASE PRINT