

Message from the Division Chair

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It is an honor to have the opportunity to be the 2018 Chair of the Colloid and Surface Chemistry Division of the American Chemical Society, following in the footsteps of a long line of distinguished former chairs whom I thank for their leadership.

A key feature of our division is the outstanding scientific programming that it enables. Thanks to the efforts of the COLL Programming Committee led by “Nagu” (Ramanathan Nagarajan), and the numerous symposium organizers, we have a diverse array of presentations at the upcoming Spring 2018 ACS Meeting in New Orleans (see page 5 in the Newsletter). The division is privileged to host the 2018 Priestley Medalist Symposium in honor of Geraldine Richmond. In addition, there will be lectures and symposia associated with COLL awards made possible by the generous sponsorship of our industrial partners; Stacey F. Bent, Stanford University, will receive the ACS Award in Surface Chemistry, sponsored by Procter & Gamble, and Håkan Wennerström, Lund University, will receive the ACS Award in Colloid Chemistry, sponsored by Colgate-Palmolive. Let me congratulate all the awardees.

It will soon be time to think about submitting abstracts to the Fall 2018 ACS Meeting in Boston, including a new initiative, the COLL Industry-Student Symposium (see 5 in the Newsletter). There are still opportunities to propose symposia for the Spring 2019 ACS Meeting in Orlando (see page 6 in the Newsletter). We encourage topics of potential interest to the broad membership of the Division and we support organizers by matching funds (up to \$3,000) that they raise to cover invited speaker registration, student awards, and other symposia related activities. Beyond the National Meetings, the division supports COLL related programming at regional meetings by providing funding to organizers of symposia. Another excellent division sponsored forum is the Colloid and Surface Science Symposium, the 93rd edition of which will be held at Georgia Tech on June 16-20, 2019 (see page 6 in the Newsletter). This newsletter and the COLL division website (colloidssurfaces.sites.acs.org/) provide more details of our activities.

The division is interested in new ideas and members. One of my goals this year is to increase the involvement of faculty and students at Primarily Undergraduate Institutions and to expand the range of awards we offer. Please share your suggestions and consider getting involved in these and other initiatives. A good way to start is to come to the COLL Business Meeting, held right before the Sunday COLL Poster Session at ACS National Meetings, to learn more. We always need volunteers to help judge in the poster session that follows.

We look forward to your contributions to continuing to make the Colloid and Surface Chemistry Division one of the most active and successful in the ACS. One way is to encourage your colleagues to be division members, thereby supporting our programming and activities.

I am grateful to serve alongside the dedicated individuals who make possible the various activities of the COLL division by giving generously of their time. I wish all COLL members a very happy 2018 and look forward to seeing you in New Orleans.



Eric Borguet, Chair

Message from the Editor



Greetings readers - I am delighted to be serving as your new Editor of *The Colloid and Surface Chemist*. Do you have something to share in the newsletter or content you'd like to see added? Please send your comments, pictures, and announcements to me, Lauren Zarzar (ldz4@psu.edu). I look forward to hearing from you. --Lauren

Division Officers and Councilors

Elected Officers

Chair: Eric Borguet (eborguet@temple.edu)
 Chair Elect: Lorena Tribe (lut1@psu.edu)
 Vice Chair: Kate Stebe (kstebe@seas.upenn.edu)
 Past Chair: Howard Fairbrother (howardf@jhu.edu)
 Program Chair: Ramanathan Nagarajan (ramanathan.nagarajan.civ@mail.mil)
 Secretary: Christopher Karwacki (christopher.j.karwacki.civ@mail.mil)
 Treasurer: Marina Ruths (marina_ruths@uml.edu)
 Membership Secretary: Rosa Espinosa-Marzal (rosae@illinois.edu)
 Member-at-Large: Janet Elliott (janet.elliott@ualberta.ca)
 Member-at-Large: Robert Tilton (tilton@andrew.cmu.edu)
 Member-at-Large: Nancy Falk (Nancy.Falk@clorox.com)
 Councilors: Nicholas Abbott (nlabbott@wisc.edu)
 Jennifer Hollingsworth (jenn@lanl.gov)
 Maria Santore (santore@mail.pse.umass.edu)
 Alternate Councilors: Jill Millstone (jem210@pitt.edu)
 Steven Tait (tait@indiana.edu)
 Andrew Teplyakov (andrewt@udel.edu)

Appointed Officers

Chair, Awards Committee: Nick Abbott (nlabbott@wisc.edu)
 MPPG Representative: Paul Van Tassel (paul.vantassel@yale.edu)
 Newsletter Editor: Lauren Zarzar (ldz4@psu.edu)
 Regional Meetings Coordinator: Robert Tilton (tilton@andrew.cmu.edu)
 Symposium Chair: Jim Schneider (schneider@cmu.edu)
 LaMer Award Committee Chair: Joelle Frechette (jfreche2@jhu.edu)
 Webmaster: Janet Elliott (janet.elliott@ualberta.ca)

Free ACS Programs for Graduate Students and Postdocs

For information on opportunities for students and postdocs, including the ACS Preparing for Life After Graduate School Workshop www.acs.org/gradworkshop, please contact GradEd@acs.org or visit www.acs.org/grad

COLL Division Promotional Video

The COLL Division promotional video is now available! Please watch and share the video with your colleagues. The video is featured on the ACS website's list of Technical Divisions and will be promoted through social media in the spring. https://www.youtube.com/watch?v=qM-crhZcHrk&index=24&list=PLLG7h7fPoH8K-SiqNUzJ_vDCRKW1WwltN



Highlights from the 254th National Meeting in Washington, D.C.

COLL Open Meeting and Poster Session



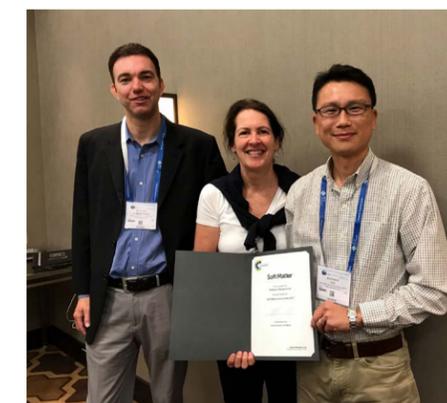
The poster session was held August 20th and brought great discussions, enthusiasm, and high levels of participation from the undergraduate through faculty level. COLL leaders and members visited student posters to learn about their contributions and recognized the outstanding posters with a prize. The winners are pictured at left with Howard Fairbrother, COLL Chair. Left to right: Maria Marquez (University of Houston), Haihang Ye (Michigan Tech University), Howard Fairbrother, Zhenzhu Xu (UC San Diego), Ashley Trojniak (Hope College), Nicole Farmularo (Penn State).

COLL Luncheon

Members of the COLL Division gathered together for their luncheon on August 22 in the Renaissance Washington DC. This biannual event is always greatly anticipated and serves as an excellent opportunity to network and to recognize outstanding scientists in the community.



Joelle Frechette, LaMer Award Committee Chair and COLL Division ACS Fellow, at the luncheon



Howard Fairbrother (Division Chair), Kate Stebe (Associate Editor of Soft Matter) presenting Daeyeon Lee the 2017 Soft Matter Lectureship.

COLL Award Lectures

The COLL division is active in selecting recipients for major awards that are sponsored by the journals Langmuir (2 awards), Nano Letters, and ACS Applied Materials and Interfaces. In each case, the recipient is selected by a committee that includes representatives from the COLL Division and the respective journal. These awards were presented at the 2017 ACS National Meeting in Washington, D.C.

Langmuir Lectures



Frank Caruso

Prof. Frank Caruso delivered a Langmuir Lecture on August 22, 2017 in the Walter E. Washington Convention Center titled “Engineering particles for bio-nano science and beyond”. Dr. Caruso is a professor and ARC Australian Laureate Fellow at The University of Melbourne, Australia and is a leader in the development of biomaterials, nano-bio materials interfaces, and biotechnology with focus in the areas of medicine and health. Caruso is a Fellow of the Australian Academy of Science and Deputy Director of the ARC Centre of Excellence on Convergent Bio-Nano Science and Technology.



Paul Cremer

Prof. Paul Cremer delivered a Langmuir Lecture on August 22, 2017 in the Walter E. Washington Convention Center titled “Probing the interactions of anions and cations with phospholipid membranes”. Dr. Cremer is the J. Lloyd Huck Chair in Natural Sciences in the Department of Chemistry at The Pennsylvania State University. His work focuses at the intersections of nanomaterials and bio-material interfaces and he has developed microfluidic methodologies to probe molecular interactions in membranes and proteins.

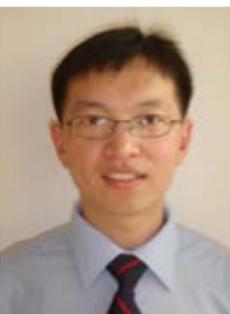
Nano Letters Lecture



Liangbing Hu

Prof. Liangbing Hu was selected as the Nano Letters Lecturer, and on August 22, 2017 in the Walter E. Washington Convention Center, gave a presentation titled “Nanocellulose for nanotechnologies.” Dr. Hu is appointed in the Department of Materials Science and Engineering at the University of Maryland and his research is aimed at the development of nanostructures and nanomaterials for energy applications.

ACS Applied Materials and Interfaces Lecture



Yanli Zhao

Prof. Yanli Zhao was named the ACS Applied Materials and Interfaces Lecturer, and on August 22, 2017 in the Walter E. Washington Convention Center, he delivered a presentation on “Responsive organic nanosystems for targeted bioimaging and therapy”. Dr. Zhao is jointly appointed in the School of Physical and Mathematical Sciences and the School of Materials Science and Engineering at Nanyang Technological University in Singapore. His group has been highly active and influential in areas of targeted and controlled drug delivery and design of stimuli-responsive platforms for therapeutics.

Upcoming Events and Deadlines

255th ACS National Meeting & Exposition, March 18-22, 2018, New Orleans, LA

ACS Meeting Theme: Nexus of Food, Energy, and Water. **Early registration closes Feb 5.** Look forward to seeing you there! [Meeting Homepage](#)

256th ACS National Meeting & Exposition, August 19-23, 2018, Boston, MA

Deadline for online submission of abstracts is March 26, 2018. ACS Meeting Theme: Nanoscience, Nanotechnology & Beyond. Go to <http://abstracts.acs.org> then select the Boston meeting, and follow instructions to submit your abstract to the selected COLL Division symposium. Symposia that are open for contributions include:

- Advances in Colloid & Surface Chemistry Enabled by Cryogenic & In Situ Liquid-cell Electron Microscopy
- Basic Research in Colloids, Surfactants, and Nanomaterials
- Biomaterials and Biointerfaces
- Colloid & Surface Chemistry in Industry: Applications & Career Opportunities
- Colloidal & Interfacial Science in Separation Processes
- Frontiers and Challenges in Nanoparticle-Mediated Chemical Transformations
- Fundamental Research in Colloids, Surfaces and Nanomaterials
- Heating with Colloidal Nanoparticles: Physical Mechanisms & Applications in Life Science
- Nanomaterials
- Nanomedicine: Colloidal Nanomaterials for Bio-imaging, Diagnosis & Treatment
- Nanomedicines: From Fundamentals to Applications
- Particle Sizing of Nanoparticles: From Regulatory & Metrology Aspects to Application & Analysis
- Surface Chemistry
- Synthetic Self-Assembled Systems for Drug & Nucleic Acid Delivery: New Materials, Formulation Strategies, Targeting, Toxicity & Regulatory Issues
- Toward Atomic Precision in Controlling Low Dimensional Materials

COLL Industry-Student Symposium

Considering an industrial career after graduation? Looking for talented and qualified scientists with experience in colloid and surface chemistry? If so you should plan on attending and/or participating in the COLL Industry-Student Symposium entitled “Colloid and Surface Chemistry in Industry: Applications and Career Opportunities” being organized by the ACS Division of Colloid & Surface Chemistry at the Fall 2018 National Meeting, Boston MA (August 19-23, 2018). This symposium is has been motivated by the COLL Division’s recognition that a wide variety of diverse industries and companies are actively pursuing research in areas of relevance to

colloids and surface chemists. However, students who are potentially interested in industrial careers typically lack relevant information about life in industry, including the nature of on-going research within different companies, the workplace environment, potential career trajectories within different companies and how best to position themselves as job candidates to employers. To address these issues this symposium will feature a number of talks

COLL Industry-Student Symposium

Organized by the ACS Division of Colloid & Surface Chemistry
Fall 2018 National Meeting, Boston MA

Considering an industrial career after graduation?
Find out about industrial research and careers from speakers, discussion panel, and networking.
Learn how to prepare yourself for an industrial career.

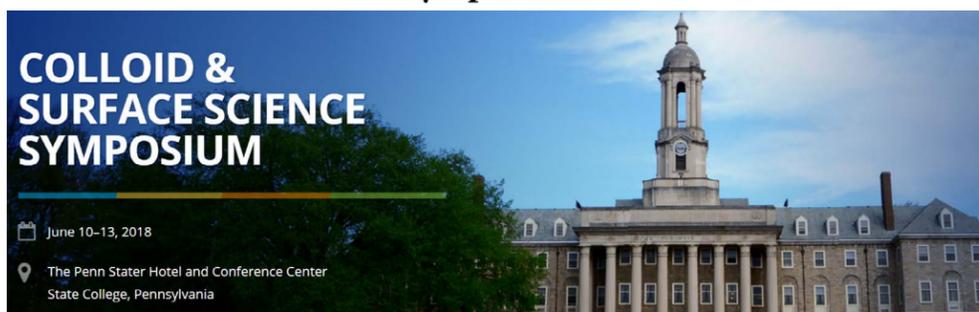
Looking for top colloid & surface chemistry talent?
Network with students seeking industrial careers.
Share career opportunities for new graduates at your company at a discussion panel or a talk.

Interested? Contact Nancy Falk (Nancy.Falk@clorox.com) or Howard Fairbrother (howardf@jhu.edu)

that highlight ongoing research and career opportunities from representative members of industries whose research involves aspects of colloids and/or surface chemistry, including start-up companies and instrument manufacturers. In addition to the symposium a reception/round table event will be held on site to help facilitate informal conversations and networking opportunities between presenters and student members. The round table will include a question and answer session where industry participants will be able to answer specific questions, such as “What are the best ways for a student to position themselves for a career in industry?”, “What types of positions (e.g. postdocs, summer interns, regular inters) are available to students?”, “What are the key things industry looks for in a CV from a job applicant?”, and “How can I secure an industrial internship and how valuable is this in job applications?”.

For more information please contact one of the organizers: Nancy Falk (Nancy.Falk@clorox.com), Howard Fairbrother (howardf@jhu.edu), Lorena Tribe (lut1@psu.edu).

Colloid & Surface Science Symposium



The 92nd American Chemical Society (ACS) Colloid & Surface Science Symposium continues the long-standing tradition of bringing together interdisciplinary researchers from academia and industry across the globe. They convene to celebrate their common interest

in particles and complex fluids, interfacial phenomena and chemistry, soft-matter science, and environmental science. We hope you can join us for this symposium from June 10 to 13, 2018, at The Penn Stater Hotel and Conference Center, located in State College, Pennsylvania, USA. Abstracts due March 24, 2018. For more information, please visit the website: <https://colloids2018.org/> Upcoming: 93rd Symposium at Georgia Tech - June 16-20, 2019

2018 Unilever Award Outstanding Young Investigator in Colloid & Surface Science

Deadline: Wednesday, February 1, 2018. This annual award is to be presented at the 92nd ACS Colloid and Surface Science Symposium to be held from June 10-13, 2018 at State College, Pennsylvania. The award consists of \$3,000 and a plaque. In addition, up to \$1000 will be provided towards travel expenses to the meeting at which the award will be presented. The winner is expected to deliver a lecture.

Eligibility: Nominees who are within seven (7) years of receiving their Ph.D. will be eligible for the Award. The cut off date for eligibility this year will be July 1, 2011. Special consideration is given to the originality and creativity of the work and to its potential impact. The research must have been carried out in North America.

Nominations: Nomination may be made by a colleague or anyone familiar with the nominee's work. The nomination packet should be sent electronically by email, preferably in a single PDF file, containing the nomination letter, three letters of support from others in addition to the nomination letter, the nominee's curriculum vita with a complete list of publications, and reprints of up to five papers, which demonstrate the nominee's excellence in publication of his or her research work. The nomination letter should contain a carefully edited 25-word citation, which reflects the nominee's specific achievements. Previous years' nominations will be automatically renewed up to the cut off date for eligibility, but you are encouraged to submit relevant updated material. **Please send material to: Professor P. Somasundaran, Earth & Environmental Engineering Department, Columbia University; ps24@columbia.edu; Telephone: 212-854-2926**

Volunteer to Organize a Symposium for COLL!

If you want to organize a symposium for the Spring meeting, a proposal must be sent by June 1st of the previous year. If you want to organize a symposium for the Fall meeting, proposal must be sent by November 1st of the previous year. Proposals are being accepted for the following ACS National Meetings now:

Meeting Theme: Chemistry for New Frontiers 257th National Meeting & Exposition March 31-April 4, 2019 Orlando, Florida	Meeting Theme: Macromolecular Chemistry: The Second Century 259th National Meeting & Exposition March 22-26, 2020 Philadelphia, Pennsylvania
Meeting Theme: Chemistry of Water 258th National Meeting & Exposition August 25-29, 2019 San Diego, California	Meeting Theme: Chemistry from Bench to Market 260th National Meeting & Exposition August 23 - 27, 2020 San Francisco, California

If you want to organize a symposium, please e-mail a proposal to the COLL Program Chair who will act quickly to decide on the suitability of the symposium and the best meeting to schedule it. **Contact: Dr. Ramanathan Nagarajan (NAGU); Natick Soldier Research, Development & Engineering Center, General Greene Avenue, Natick MA 01760 Ph: 508-233-644, E-mail: Ramanathan.Nagarajan.Civ@mail.mil**

A Message from our Membership Secretary

Encourage your colleagues and coauthors to become members of the Division of Colloid and Surface Chemistry (COLL)!

COLL is one of the most active Divisions in the American Chemical Society with approximately 2400 members throughout the world. Scientists like yourself join the Division to benefit professionally from the exchange of scientific information between its members. Attendance and presentations at the Division's conference symposia provide excellent opportunities for professional networking and for enhanced visibility of your research. Every year, nearly 2000 research presentations are made in the COLL Division at the two ACS National Meetings and the unique summer symposium of the COLL Division. As a Division member, you can also volunteer to organize a thematic technical symposium on a topic of your interest at the ACS National Meetings. To learn more about our activities, fellowships, and awards, visit our webpage at colloidssurfaces.org/

To join the Division, go to <http://www.acs.org/content/acs/en.html>. If you are not an ACS member, first join the ACS. If you are an ACS member, log in and then select “Membership & Networks”, “Technical Divisions” and “Join a Division”. On the application form, fill in the code 509 for the COLL division. The Division Membership Fees are: \$15 (ACS member), \$16 (ACS non-member, COLL affiliate), or \$5 (ACS student member).

Sincerely,
Rosa Espinosa-Marzal
Membership Secretary of the ACS COLL Division

