

## Message from the Division Chair

Welcome to a new year with the Division of Colloid and Surface Chemistry! The commitment of numerous members allows COLL to thrive, providing outstanding programming at meetings, recognizing excellence with awards, and connecting practitioners of chemistry in meaningful ways. I am grateful for the hard work of all the elected officers, Councilors, appointees, committee chairs and members who have served this past year, and especially to immediate past Chair Eric Borguet whose energy and clear vision have been an inspiration.



COLL organizes scientific symposia yearly at the two ACS national meetings and provides oversight for the summer Colloid and Surface Science Symposia. Program Chair Ramanathan Nagarajan (Nagu) has again put together a rich program for the upcoming spring meeting in Orlando, and contributions for the fall meeting in San Diego are being accepted. Find out more about the programs and the ease of organizing your own symposium on our website, <https://colloidsurfaces.sites.acs.org/acsnationalmeetings.htm>, and on page 7. The 93rd Colloid and Surface Science Symposium will be held at the Georgia Institute of Technology, June 16-19, 2019. More details can be found on the division's website at <https://colloids2019.org/home/>, and also on page 6 of this newsletter.

COLL is proud to provide recognition to outstanding practitioners in the field! We encourage you to bring candidates to our attention. Recipients of the Langmuir Lecture Awards who presented at the Fall 2018 national meeting are featured in this edition, along with Nano Letters Lecture and ACS Applied Material and Interfaces Lectures awardees. Check the COLL website for links and upcoming deadlines for the ACS Award in Colloid Chemistry, the ACS Award in Surface Chemistry, and others.

In addition to scientific symposia and award sessions at ACS national meetings, COLL also holds a Program Committee meeting and an Executive Committee meeting on Saturday, an open meeting for the membership in conjunction with the poster session on Sunday, and a networking luncheon prior to the Awards Symposium on Tuesday. The poster session and COLL contributions to the Sci Mix are also excellent opportunities to network with colleagues and to connect with the leadership, who look forward to seeing you there. Times and locations are in the National Meeting program.

At the recent Boston meeting, a day-long hybrid symposium was organized where business and industrial members interacted with graduate students and post-doctoral scholars. Due to the success in 2018, this symposium will now become an annual event. Details can be found on page 6. COLL is also expanding the traditional offerings with a program to facilitate interactions between students and faculty from primarily undergraduate institutions (Eric Borguet), enhancing the communications with organizers of ACS Regional Meetings to provide support for COLL programming (Robert Tilton), and establishing connections with ACS Student Chapters. These initiatives as well as cooperation with international members will be facilitated with increased use of virtual meeting and social networking platforms.

These are exciting and challenging times. Improving people's lives through the transforming power of chemistry, the vision statement of ACS, can only be achieved with the determined and concerted effort of our community. Please consider COLL when you contemplate your role in making a better future. We welcome your involvement!

With best wishes,  
Lorena Tribe  
Chair

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### Message from the Editor



Greetings readers - I am delighted to be serving as your 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: Lorena Tribe (lut1@psu.edu)  
 Chair Elect: Kathleen Stebe (kstebe@seas.upenn.edu)  
 Vice Chair: Matthew Lynch (lynch.ml@pg.com)  
 Past Chair: Eric Borguet (eborguet@temple.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: Nancy Falk (Nancy.Falk@clorox.com)  
 Member-at-Large: Robert Tilton (tilton@andrew.cmu.edu)  
 Member-at-Large: Shelley Claridge (sclaridg@purdue.edu)  
 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

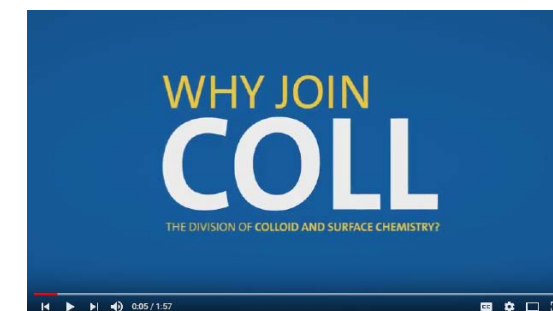
Chair, Awards Committee: Nicholas Abbott (nlabbott@wisc.edu)  
 Unilever Award Committee Chair: Ponisseril Somasundaran (ps24@columbia.edu)  
 LaMer Award Committee Chair: Matthew Helgeson (helgeson@ucsb.edu)  
 Applied Materials & Interfaces Award Chair: Matthew Lynch (lynch.ml@pg.com)  
 ACS Fellows Nominations Chair: Nicholas Abbott (nlabbott@wisc.edu)  
 Maria Santore (santore@mail.pse.umass.edu)  
 Newsletter Editor: Lauren Zarzar (ldz4@psu.edu)  
 Regional Meetings Coordinator: Robert Tilton (tilton@andrew.cmu.edu)  
 Summer Symposium Chair: Jim Schneider (schneider@cmu.edu)  
 Webmaster: Shelley Claridge (sclaridg@purdue.edu)  
 Student-Industry Symposium Chair: Nancy Falk (Nancy.Falk@clorox.com)  
 PUI Networking Symposium Chair: Eric Borguet (eborguet@temple.edu)

### 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](http://www.acs.org/gradworkshop), please contact GradEd@acs.org or visit [www.acs.org/grad](http://www.acs.org/grad)

### COLL Division Promotional Video

The COLL Division promotional video is 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](https://www.youtube.com/watch?v=qM-crhZcHrk&index=24&list=PLLG7h7fPoH8K-SiqNUzJ_vDCRKW1WwltN)



### Highlights from the 256<sup>th</sup> National Meeting in Boston, MA

#### COLL Open Meeting and Poster Session



The poster session was held August 19, 2018 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: Akash Gupta (UMass Amherst), Veronica Gerios (U. Mich), Riddha Das (UMass Amherst), Hakeem Henry (U. Maryland), Jennifer Lee (Penn), Eric Borguet (COLL Chair), Maneesha Rajor (U. Toronto), Sanjana Gopalakrishnan (UMass Amherst), Emily Ripka (Syracuse)

#### COLL Luncheon & Awards

Members of the COLL Division gathered together for their luncheon on August 21 in the Boston Convention & Exhibition Center. This biannual event is always greatly anticipated and serves as an excellent opportunity to network and to recognize outstanding scientists in the community.



Many COLL members enjoyed the luncheon filled with great food and conversation. At left, Françoise M. Winnik (Editor-in-Chief of *Langmuir*) engages with her colleagues.

Kathleen Stebe, David Weitz, Nicholas Abbott, and Orlin Velev enjoying a break during the awards symposium series

### 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 2018 ACS National Meeting in Boston, MA.

#### Langmuir Lectures

##### Kathleen Stebe



Prof. Kathleen Stebe delivered a Langmuir Lecture on August 21, 2018 in the Boston Convention & Exhibition Center titled “Directing colloid motion in nematic liquid crystals near wavy boundaries.” Dr. Stebe is the Richer & Elizabeth Goodwin Professor of Chemical and Biomolecular Engineering as well as the Deputy Dean for Research in the School of Engineering and Applied Science at the University of Pennsylvania. Her research focuses on assembly of colloidal materials in complex fluids. She is pictured at left with Françoise M. Winnik (Editor-in-Chief of Langmuir) and Eric Borguet (COLL Chair).

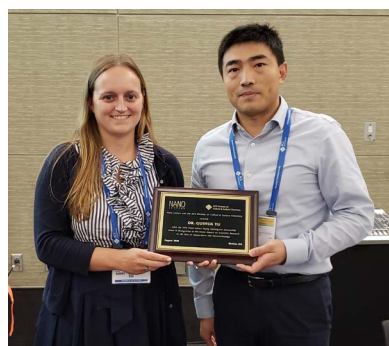
##### Orlin Velev



Prof. Orlin Velev delivered a Langmuir Lecture on August 21, 2018 titled “Field-driven assembly, manipulation, and propulsion of dynamic structures made of particles”. Dr. Velev is the S. Frank and Doris Culberson Distinguished Professor in the Department of Chemical and Biomolecular Engineering at NC State University. His research expertise is in the areas of directed assembly and responsive and active colloidal materials. He is pictured with Françoise M. Winnik (Editor-in-Chief of Langmuir) and Eric Borguet (COLL Chair).

#### Nano Letters Lecture

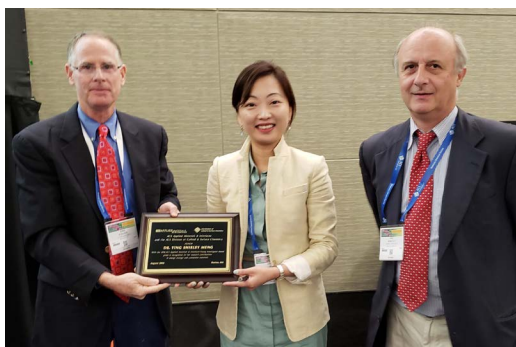
##### Guihua Yu



Prof. Guihua Yu was selected as the Nano Letters Lecturer, and on August 21, 2018 gave a presentation titled “Nanostructured functional hydrogels as an emerging platform for renewable energy and environmental technologies.” Dr. Yu is appointed in the Mechanical Engineering Department at the University of Texas at Austin and his research is focused on the chemistry and materials aspects of nanomaterials in battery technology. He is pictured with Laura Fernandez, Managing Editor of ACS Applied Materials and Interfaces.

#### ACS Applied Materials and Interfaces Lecture

##### Shirley Meng



Prof. Shirley Meng was named the ACS Applied Materials and Interfaces Lecturer, and on August 21, 2018 she delivered a presentation on “Probing and understanding interfaces and interphases in electrochemical energy storage systems”. Dr. Meng is appointed in the School of NanoEngineering at UC San Diego, and her research focuses on the integration of advanced characterization techniques with first principles computation modeling for developing new materials and their architectures for electrochemical energy storage systems.

### Upcoming Events and Deadlines

**257<sup>th</sup> ACS National Meeting & Exposition, March 31-April 4, 2019, Orlando, FL**  
ACS Meeting Theme: Chemistry in New Frontiers. **Early registration closes Jan 23.** Look forward to seeing you there! [Meeting Homepage](#)

**258<sup>th</sup> ACS National Meeting & Exposition, August 25-29, 2019, San Diego, CA**  
**Deadline for online submission of abstracts is March 25, 2019.** ACS Meeting Theme: Chemistry of Water. Go to <http://abstracts.acs.org> then select the San Diego meeting, and follow instructions to submit your abstract to the selected COLL Division symposium. Symposia that are open for contributions include:

- Dynamics and mechanisms of surface catalyzed reactions
- Water and tribological interfaces
- Targeted delivery of nanomedicines in vivo
- Formulation strategies to control the physicochemical parameters of drug and nucleic acid delivery systems
- Hierarchical assembly of peptide and protein-from interaction, structure to application
- Colloidal quantum dots for emerging technologies
- Frontiers and challenges in nanoparticle-mediated chemical transformations
- Nanoinformatics: Information and data sciences applied to nanomaterials synthesis, properties, and biological effects
- Surfaces and interfaces in the environment: Symposium in honor of Vicki Grassian
- Adsorption and reaction at surfaces: Symposium in honor of Charles T. Campbell
- Colloids and nanomaterials for water purification
- Theoretical and Experimental Investigations of Water Interactions with Materials
- Confined dynamics of molecules and particles at interfaces, in pores, and under crowded conditions
- Colloid and surface chemistry in industry: Applications and career opportunities
- Nanomaterials
- Surface Chemistry
- Biomaterials and Biointerfaces
- Basic Research in Colloids, Surfactants and Interfaces
- Fundamental Research in Colloids, Surfaces and Nanomaterials (poster session)

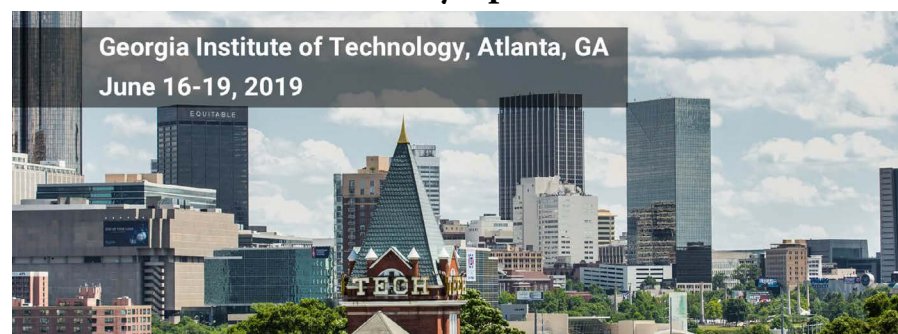
**Sci-Mix.** Authors submitting abstracts online, whether for oral or poster presentation, will be asked to indicate during abstract submission, their interest in participating in Sci-Mix. Sci-Mix is a poster session involving all Divisions of ACS, with the Divisions selecting what presentations to include in the Sci-Mix. Sci-Mix is traditionally held on Monday evening at 8:00 PM. The number of posters at Sci-Mix to be selected by a Division is limited to 10% of the total number of papers presented in that Division. Therefore, selection to present Sci-Mix posters is a special recognition conferred by the Division to the authors. Sci-Mix poster presentations are duplicates of the presentations made at the oral or poster sessions of the Division. Please note that this is the only kind of duplicate presentation allowed by ACS.

#### LGBTQ+ Graduate Student and Postdoctoral Research Symposium

The LGBTQ+ Graduate Student and Postdoctoral Research Symposium is a two-day program that will be held on April 1-2, 2019 at the ACS National Meeting & Exposition in Orlando. The symposium will feature 27 presentations from all fields of chemistry, including three colloid-related abstracts. The keynote speaker will be Prof. Amanda Morris (Virginia Tech) who will discuss metal-organic framework artificial photosynthetic arrays and we will host a panel discussion to discuss important LGBTQ+ issues in STEM. A poster session will be held on April 2<sup>nd</sup> featuring fifteen posters and will be an excellent opportunity for networking as well as sharing experiences as LGBTQ+ individuals and allies.



## Colloid & Surface Science Symposium



The 93<sup>rd</sup> 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 16 to 19, 2019, at Georgia Tech. **Abstracts due March 1, 2019.** For more information, please visit the website: <https://colloids2019.org/home/> Upcoming: 94<sup>th</sup> Symposium at Rice University - June 7-10, 2020

## 2019 Unilever Award for Outstanding Young Investigator in Colloid & Surface Science

**Deadline: February 1, 2019.** This annual award is to be presented at the 93<sup>rd</sup> ACS Colloid and Surface Science Symposium to be held from June 16-19, 2019 at Georgia Tech. The award consists of \$3,000 and a plaque. In addition, up to \$2,000 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, 2012. 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**

## COLL Industry-Student Symposium

The COLL Industry-Student Symposium, where industry speakers share career insights and possibilities with students through both talks and networking, is on the program for the San Diego National Meeting. Last fall's symposium in Boston organized by Nancy Falk, Howard Fairbrother and Lorena Tribe with funding from an ACS Innovative Project Grant was a successful start with 16 talks from a wide variety of industries and national labs. We hope to build on that success in San Diego with improved scheduling and more targeted publicity. If you'd like to give a talk or if you have questions about the symposium, please contact Nancy Falk ([nancy.falk@clorox.com](mailto:nancy.falk@clorox.com)) or Rob MacCusprie ([rob@n-icorp.com](mailto:rob@n-icorp.com)).



## Boulder Summer School on Ultrasound Contrast Agents

**Held: May 20-23, 2019. Application Deadline: March 22, 2019.** Microbubbles and other echogenic colloids are used in biomedical ultrasonics as contrast agents, molecular imaging probes and targeted drug delivery vehicles. This topical school will provide greater breadth and depth, focusing on practical tips to help you design and synthesize your own ultrasound contrast agents. In addition to lectures, practical laboratory sessions will be held for hands-on demonstrations of microbubble synthesis and characterization. The primary objectives of the school are as

follows: 1) Expose participants to the fundamentals of ultrasound contrast agent engineering. 2) Enhance understanding of the participants about the processes involved in design and production of stable microbubble suspensions of desired size distribution. 3) To increase the awareness about the usefulness of microbubbles, nanodrops and other UCAs in important biomedical applications, such as ultrasound imaging and targeted drug delivery.



## The 2019 North American Membrane Society (NAMS) Annual Meeting

The 2019 North American Membrane Society (NAMS) Annual Meeting will be held in Pittsburgh, PA on **May 11-15, 2019.** Details on technical sessions, abstract submission, and registration are available at [nams2019.org](http://nams2019.org). Please contact conference co-chair Meagan Mauter ([mauter@cmu.edu](mailto:mauter@cmu.edu)) with any additional questions.



**Do you know of an upcoming meeting of interest to share with our membership?** Email details to Caterina Lamperti ([caterina.lamperti@gmail.com](mailto:caterina.lamperti@gmail.com)). COLL will post aggregated updates on the website and send emails periodically with this information.

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

Macromolecular Chemistry: The Second Century 259 <sup>th</sup> National Meeting & Exposition March 22-26, 2020 Philadelphia, Pennsylvania	261 <sup>st</sup> National Meeting & Exposition March 21 - 25, 2021 San Antonio, TX
Chemistry from Bench to Market 260 <sup>th</sup> National Meeting & Exposition August 23 - 27, 2020 San Francisco, California	262 <sup>nd</sup> National Meeting & Exposition August 22-26, 2021 Atlanta, GA

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](mailto: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/](http://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