

## Message from the Division Chair

Dear Colloid and Surface Chemistry Division Members,

I hope this note finds you well and that your year is off to a good start. The past two years have brought inordinate challenges, and 2022 is still bearing the weight of uncertainty however, please know that the division is here to be a community to support all of its members. I encourage you to reach out, not only to our [leadership team](#), but to your fellow members, to band together to stay strong, and to support each other as we continue to seek to push science in service to society forward.



Before I discuss some of the upcoming opportunities for connection, I would like to begin by acknowledging the amazing efforts of our membership and the commitment borne by the volunteers in our division leadership. Thank you all for your support of the Division during another extremely difficult year. In particular, I especially wish to acknowledge Matt Lynch (Past-Chair) for his leadership in 2021, and to highlight the amazing efforts of Steve Tait (our Programming Chair) and Jim Schneider (past chair of our summer Colloid and Surface Science Symposium committee), in helping navigate our programs through the pandemic.

This year, we expect to continue to offer exceptional opportunities to share and discuss research. Among these opportunities, the [2022 Spring National Meeting](#) (Theme: Bonding through Chemistry) will be March 20 -24, 2022 in San Diego, which will be offered as both in person and virtual. The 96<sup>th</sup> [ACS Colloid and Surface Science Symposium](#) will be held at the Colorado School of Mines, July 10-13, 2022. The [2022 Fall National Meeting](#) (Theme: Sustainability in a Changing World) will be held August 21-25, 2022 in Chicago. We hope that you can join us at one of these meetings to share your work, connect with members of the COLL community and participate in the lively discussions of the research that is impacting our world.

We are currently embarking on a new opportunity for career development over the coming year, which is a student-led symposium. At the Spring meeting in March, we will seek input from our student membership on what activities and symposia they would like to see added to our schedule/roster and what additional support could be provided to foster student members to help them achieve their career goals. Stay tuned for the invitation to our breakfast meeting and open forum social event!

In support of our members' efforts, I also want to remind everyone of the opportunities for recognition through [division awards](#) and [national awards](#). These include, at the division level, the recently launched Technology Award, the PUI student awards, the Unilever Award, the Victor K. LaMer Award and the Langmuir Lecture, as well as the ACS Awards in Colloid Chemistry and in Surface Chemistry at the national level. I want to encourage you to apply, seek nomination, or nominate others to these awards, so that we can fully recognize the breadth and depth of our membership and their contributions to the chemical sciences.

As we launch into this new year, let me say that I remain optimistic about the future and the opportunities that we have to connect and support each other, and to support science for the good of society. I wish to thank all of you for what you bring to the COLL community and I look forward to working with you, and on your behalf, over the coming year. If you have ideas, comments, and suggestions for the division, please reach out to me and to the members of our division Executive Committee, so that we can work toward a more prosperous year for all.

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## Division Officers and Councilors

### *Elected Officers*

Chair:	James Batteas (batteas@chem.tamu.edu)
Chair Elect:	Lauren Zarzar (ldz4@psu.edu)
Vice Chair:	Marina Ruths (marina_ruths@uml.edu)
Past Chair:	Matthew Lynch (lynch.ml@pg.com)
Program Chair:	Steven Tait (tait@indiana.edu)
Secretary:	Marc Ilies (mailies@temple.edu)
Treasurer:	Lorena Tribe (lut1@psu.edu)
Membership Secretary:	Rosa Espinosa-Marzal (rosae@illinois.edu)
Member-at-Large:	Christopher M. Sims (christopher.sims@nist.gov)
Member-at-Large:	Rosalynn Quinones-Fernandez (quinonesr@marshall.edu)
Member-at-Large:	Davita L. Watkins (dwatkins@olemiss.edu)
Councilors:	Nicholas Abbott (nabbott@cornell.edu)
	Jennifer Hollingsworth (jenn@lanl.gov)
	Maria Santore (santore@mail.pse.umass.edu)
Alternate Councilors:	Andrew Teplyakov (andrewt@udel.edu)
	Ajay Mallia (amallia@ggc.edu)
	Simona Murph (simona.murph@srl.doe.gov)

### *Appointed Officers*

Chair, Awards Committee:	Nicholas Abbott (nabbott@cornell.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 (nabbott@cornell.edu)
	Maria Santore (santore@mail.pse.umass.edu)
Newsletter Editor:	Ajay Mallia (amallia@ggc.edu)
Regional Meetings Coordinator:	Rosalynn Quinones-Fernandez (quinonesr@marshall.edu)
Summer Symposium Chair:	Jim Schneider (schneider@cmu.edu)
Webmaster:	Mary Elizabeth Anderson (maryelizabeth.anderson@furman.edu)
Student-Industry Symposium Chair:	Nancy Falk (Nancy.Falk@clorox.com)
COLL-PUI Award Committee:	Eric Borguet (eborguet@temple.edu)
	Lorena Tribe (lut1@psu.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 and Website

The COLL Division promotional video is available. Please watch and share The video with your colleagues. [Watch now](#). We have recently launched a new COLL Division webpage. The new site will make it easier to access information you need about upcoming meetings, awards, and contacts for COLL division activities. <https://www.colloidssurfaces.org/>



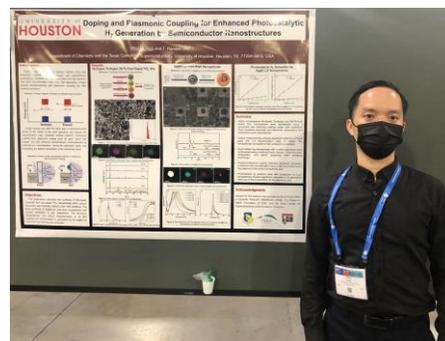
## Highlights from the Spring 2021 and Fall 2021 National ACS Meetings

### Spring 2021 ACS Meeting

The Spring 2021 ACS meeting was conducted online, but, in spite of this, we still saw strong participation from our membership. 708 abstracts were presented at the meeting, including 582 oral presentations and 126 poster presentations. 18 symposia were organized that comprised 79 oral sessions during the meeting. These included awards symposia in honor of Teri Odom, Kerry Karukstis, Emily Weiss, and Vicky Grassian.

### Fall 2021 ACS Meeting

The Fall 2021 ACS meeting was a hybrid meeting that included in-person sessions and activities in Atlanta, Georgia and online components. Some sessions were “hybrid,” allowing for participation by speakers and audience members in the conference center in Atlanta and online. After experiencing previous online meetings, we saw some decrease in the number of papers presented at this meeting. 324 presentations, including 254 oral presentations in seven symposia and 70 poster presentations. Half of the posters were presented in-person and the other half were presented using an online presentation system.



Fall 2021 undergraduate student award winner Nhat Ngo

## Upcoming Events and Deadlines

### ACS National Meeting & Exposition, March 20-24, 2022



The Spring 2022 ACS meeting will take place in San Diego, California and will also have a significant online component. About 2/3 of the presentations are planned for in-person presentations with others being presented in virtual formats. We are excited to recognize division award winners at this meeting, Miquel Salmeron and Molly Stevens. A robust program of 21 symposia will be presented and provide an engaging forum for scientific communication.

### ACS National Meeting & Exposition, August 21-25, 2022

Abstract submission for the fall 2022 ACS Meeting in Chicago, Illinois is now open. Abstracts are due March 14, 2022. The fall meeting will be a hybrid meeting. Speakers may choose to present in-person or online. If you have suggestions for topics for future symposia or are interested in assisting with organizing a symposium, please contact COLL program chair Steve Tait, [tait@indiana.edu](mailto:tait@indiana.edu), for 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. 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: Steven Tait ([tait@indiana.edu](mailto:tait@indiana.edu)).

## Colloid & Surface Science Symposium



### Join us for the 96th ACS Colloid and Surface Science Symposium

CSM's partnership with the National Renewable Energy Laboratory (NREL), the University of Colorado Denver Anschutz Medical Campus, and various industrial consortia will foster networking of researchers from academia, national laboratories, and industry.

### Plenary speakers



Naomi J. Halas  
Rice University

Bradley Nelson  
ETH Zürich

Golden, Colorado, located at the foot of the Rocky Mountains, is the home of the Colorado School of Mines, the National Renewable Engineering Laboratory, and the Coors Brewery, one of the largest brewing facilities in the world. A 20-minute drive from downtown Denver and a short 15-min drive from the famed Red Rocks Park & Amphitheatre, Golden is the closest point in the Denver/Boulder metro area to mountain destinations with miles of hiking trails for all levels. It is serviced by Denver International airport, the 5th-busiest in the United States.



Red Rocks Amphitheater



Rocky Mountain National Park

<http://colloids2022.org/>



In addition to technical sessions typically held in the symposium, this conference will feature three areas that tie strongly with Colorado: energy systems and catalysis, environmental science, and colloids in life science.

### Technical Sessions

Active Matter  
Colloidal & Interfacial Forces  
Colloids, Macromolecules, and Surfaces in Life Science  
Self and Directed Assembly  
Electrokinetics and Microfluidics  
Emulsions, Bubbles & Foams  
Energy Systems  
Geochemical and Environmental Systems  
General Aspects of Colloids and Interface  
Molecules and Particles at Fluid Interfaces  
Rheology and Dynamics  
Surface Science and Catalysis  
Wetting & Adhesion  
Connecting the Dots  
Langmuir Student Awards Session  
Poster Session

<http://colloids2022.org/>



## Colloid and Surface Technology Award (Deadline, March 1, 2022)

**Purpose:** To recognize and encourage applied and translational work in colloid and surface science by individuals or small teams of researchers (typically 2-4) in industry, government laboratories or academia.

**Award:** The award consists of \$3,000 and a plaque. In addition, up to a total of \$1000 will be provided towards travel expenses for one or more speakers to attend the meeting at which the award will be presented. The winner or winning team is expected to deliver a lecture at the fall ACS national meeting.

**Eligibility:** Researchers in industry, government laboratories or academia are eligible to apply. Special consideration will be given to the originality and creativity of the research leading to the process or product developed and to its impact on society.

**Establishment and Support:** The award was established in 2020 by the ACS Division of Colloid and Surface Chemistry.

**Link:** for additional information, including submission process, see <https://www.colloidssurfaces.org/awards/>

## 2022 ACS Fellows Nominations (Deadline is April 1, 2022)

Nominations for the ACS fellowship by COLL Division members should be submitted directly to the ACS at <https://www.acs.org/content/acs/en/funding-and-awards/fellows.html>

## PUI Undergraduate student award (Deadline March 4, 2022)

Undergraduate students and advisors from PUI (Primarily Undergraduate Institution) are invited to contribute to the standing symposia of the Colloid and Surface Chemistry division in the following topics (nanomaterials, surface Chemistry, basic research in colloids, surfactants and Interfaces, and biomaterials and bio interfaces). One student abstract will be selected for an oral presentation in each of these four symposia. The others would be invited to present their work as a poster at the national meeting.

## The Colloid and Surface Chemist – Fall 2021-Spring 2022

The award (one for each of the four symposia above) will consist of: Student registration fee for the national meeting, travel support for the student (\$200), Invitation to the student and advisor to Colloid and Surface Chemistry division luncheon, and award certificate for student and advisor (presented at the luncheon).

Application and selection process: The application consists of two parts: An abstract Nomination letter from the research advisor explaining why the student would deliver a good presentation. The letter should clearly indicate the intended target symposium (see the list above). Both of these should be submitted via the link below by March 4, 2022.

Link: for additional information, including submission process, see <https://www.colloidssurfaces.org/awards/>

### **ACS Colloid and Surface Science Travel Awards (starting 2023 Spring)**

COLL will award several travel grants of up to \$500 per Ph. D graduate student or postdoctoral researchers the first author of contributed oral presentations in sessions sponsored by COLL at ACS Spring or Fall National Meeting starting 2023. Applicants will be chosen based on the quality of their work as evidenced by the abstract of the paper) letter of support from their academic advisor and the travel distance. Applicants must be Ph. D. students or postdoc at the time of the National Meeting. Applications from individuals from groups underrepresented in STEM fields are particularly encouraged. Both student/postdoc and advisor, domestic or foreign, must be members of COLL, not just of ACS. A student may only receive COLL Travel Award once during their Ph.D. and postdoc. Decisions for the awards will be sent by e-mail to the applicants be for the ACS National Meeting with instructions on how to receiver reimbursement checks. Please check <https://www.colloidssurfaces.org/awards/> for the updates.

### **Regional Meetings**

In the past, the Division of Colloid and Surface Chemistry has provided financial support for COLL-related programming in several ACS Regional Meetings. The Division provides up to \$500 per symposium, with a maximum of two symposia per regional meeting, for programming that is consistent with the scientific mission of the Division with the stipulation that COLL funding must be acknowledged in the meeting program. Interested organizers of relevant symposia at future regional meetings should contact the division's regional meetings liaison, Prof. Rosalynn Quinones ([quinonesr@marshall.edu](mailto:quinonesr@marshall.edu)) to request COLL support. All requests should identify the regional meeting, with dates and location, along with the symposium or symposia titles, a list of topics to be included, names of speakers (if known) and a statement of how Division funds will be used.

## **Spring 2021 Colloid and Surface Chemistry PUI Student Award Summary**

COLL invited undergraduate students from PUI (Primarily Undergraduate Institution) to contribute to the standing symposia of the Colloid and Surface Chemistry division: Nanomaterials, Surface Chemistry, Basic Research in Colloids, Surfactants and Interfaces, and Biomaterials and Biointerfaces for the Spring 2021 ACS National Meeting. Five awardees were selected for oral presentations: Arinzechukwu Aniekwe (Prof. Ajay Mallia), Gianna Villani (Prof. Samiul Amin), Lynn Krushinski (Prof. Mary Devadas), Jordan Cox (Prof. Sarah St. Angelo), and Seth Croslow (Prof. Audra Goach). We congratulate these students and their professors and appreciate their contribution to the program.

Lynn Krushinski, whose talk was titled “Superparamagnets for magnetic hyperthermia applications” just graduated from Towson University and has moved on to UNC Chapel Hill for graduate studies in inorganic chemistry. She is considering a future in industry. Lynn, who not previously considered research, reflected on her excitement when she was recruited by a more advanced student to engage in undergraduate research, and how this impacted her motivation to become a chemist and her grades. Lynn was particularly interested in running the SEM in the laboratory and was excited to move up throughout her undergraduate experience to the point where she was training other students and managing their research. Additionally, she enjoyed doing outreach to high schools and reflected on the value of exposing young students to the excitement of chemistry.

## The Colloid and Surface Chemist – Fall 2021-Spring 2022

Gianna Villani delivered a talk on “Engineering a Tunable Smart Hydrogel for Epidermal Growth Factor Formulation and Delivery”. She is an undergraduate at Manhattan College who knew before going to college that she wanted to engage in research and reached out to her professor after her freshman year. In addition to academic work, Gianna appreciated the opportunity of interacting with chemists in industry with whom Dr. Amin collaborates.



*Eric Bourguet and Lorena Tribe interviewing 2021 spring undergraduate presentation winners.*

Some of the main differences she noticed between the two cultures were the timeframes, since industry must meet schedules, and the intensity with which the research details are questioned. Gianna found that defending her results gave her confidence to handle herself under pressure, a skill that will be beneficial when she concludes her master’s program and seeks a job in industry.

Both Dr. Devadas and Dr. Amin bring a wealth of experience to guiding undergraduate research and mentoring students. Dr. Devadas has a structured strategy to recruit and retain students in her research group, where she coaches them based on their individual strengths. Dr. Amin brings thirty years of industrial experience and connections that

enhance the opportunities. They both emphasized the importance of recognizing and nourishing the qualities that lead to excellence, such as passion, determination, and interest in chemistry.

We gratefully acknowledge the support of an ACS IPG to fund the first iterations of this program. Check this newsletter and the COLL website for details on submission to this ongoing award program! We look forward to a new cohort of student to recognize in 2022.

## COLL Award lectures

The COLL division is active in selecting recipients for major awards that are sponsored by the journals Langmuir (2 awards) 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 and the recipient presents an invited talk at the Fall National ACS Meeting.

*Deborah Leckband:* Langmuir and the ACS Division of Colloid & Surface Chemistry were proud to honor Deborah Leckband (Professor of Chemical and Biomolecular Engineering and the Reid T. Milner Professor in the School of Chemical Sciences at the University of Illinois) in the Langmuir Lectureship award series. Prof. Leckband delivered a seminar titled “Proteins at Interfaces: New perspectives on an old problem”. Dr. Leckband is being recognized for her pioneering work on determining how the physical-chemical properties of surfaces impact fundamental biological functions and device/material performance in biological environments.



*Dr. Leckband*

*Ivan I. Smalyukh*: Langmuir and the ACS Division of Colloid & Surface Chemistry were proud to honor Ivan I. Smalyukh (Professor of Physics and Materials Science Engineering at the University of Colorado Boulder) in the Langmuir Lectureship Award series. Prof. Smalyukh delivered a seminar titled “Mesoporous materials templated by liquid crystals for window applications”. Dr. Smalyukh is being recognized for his work on various types of soft matter systems, including colloids, liquid crystals, biomaterials, and their applications in photonics and renewable energy technologies.



*Dr. Smalyukh*

### Message from the 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).

### ACS Innovation Hub LinkedIn Group

The ACS Technical Division leaders would to invite entrepreneurially-minded COLL members to the new Innovation Hub LinkedIn group, where those interested in entrepreneurship in the chemical industry can make important connections, get advice, and learn about the latest trends driving chemical industry innovation. The group has already gained more than 350 members since its launch in early July, and we’re sharing valuable content and fostering collaborative conversation every day. With your help, the group will continue to grow and be a valuable incubator for entrepreneurship and innovation in the chemical space. <https://www.linkedin.com/groups/12269166/>



### Message from the Editor

Greetings! – It is a great pleasure to be serving as your Editor of The Colloid and Surface Chemist. Please email me any announcements, content, or photographs that you like to share in the newsletter. Please also send me your comments to Ajay Mallia ([amallia@ggc.edu](mailto:amallia@ggc.edu)). I look forward to hearing from you.

