



DIVISION NEWSLETTER

Fall 2023

INSIDE THIS ISSUE:

LETTER FROM THE CHAIR	2
WRAP-UP OF FALL 2023 MEETING	3
SPRING 2024 GEOC MEETING ANNOUNCEMENTS	4
CALL FOR TRAVEL AWARD APPLICATION	6
GEOCHEMISTRY DIVISION FALL 2023 ELECTION	8

GET INVOLVED!

- **Submit abstracts for Spring 2024 by October 2nd!**
- **Apply for Spring 2024 travel awards by October 9th!**
- **Run for a GEOC officer position (nominations due October 20th!)**

LETTER FROM THE CHAIR

Dear colleagues and GEOC Division members,

The Division of Geochemistry (GEOC) has had a great first half of 2023. We have made tremendous progress toward expanding the impact of our meeting programming, increasing our collaboration with other ACS divisions, and building a more inclusive culture for geoscience. The Spring and Fall 2023 geochemistry program hybrid sessions were well attended. The highlight of the Spring 2023 meeting was the sessions held in honor of 2023 ACS Geochemistry Division Medal winner Dr. Vicki Grassian, Distinguished Professor and Chair of the Department of Chemistry and Biochemistry at the University of California San Diego. Additionally, we provided support for numerous Student and Early Career Scientist Travel Awards. We have continued our collaboration with the journal ACS Earth and Space Chemistry, which recently released a virtual special issue in honor of our 2021 ACS Geochemistry Division Medal winner Dr. Michael F. Hochella, Jr. for his enormous contributions to the geochemistry community.



Meeting Programming

The division is currently ramping up its activities in preparation for the Spring 2024 meeting in New Orleans, LA. The Spring meeting will be hybrid with both in-person and virtual attendance options. Check out the Call for Symposia.

Travel Awards

The division is continuing our support of students and early career scientist by providing travel awards. Take a moment to review the Call for Award nominations.

Division Chair

Eric Pierce

WARP-UP OF FALL 2023 GEOCHEMISTRY SYMPOSIUM

Thanks to all of you who chaired symposium, presented papers, attended sessions and participated in our Social and Business meeting! We filled all of our available sessions with five outstanding symposium including:

**Reactivity at the Mineral-Water Interface: Validation through Modeling and Experiments at the Pore Scale**

Organizers: Si Chen, Oak Ridge National Laboratory, chens1@ornl.gov

Sergi Molins, Lawrence Berkeley Laboratory, smolins@lbl.gov

Vitalii Starchenko, Oak Ridge National Laboratory, Starchenko@ornl.gov

Advancements in the Characterization and Modeling of Interfacial Phenomena Driving Environmental Processes

Organizers: Matthew Landsman, Lawrence Berkeley Laboratory, mrlandsman@lbl.gov

Gregory Su, Lawrence Berkeley Laboratory, gsu@lbl.gov

Promoting Diversity in Geochemistry: Bridging People and Science to Communities

Organizer: Stetson Rowles, Georgia Southern University, rowles@georgiasouthern.edu

Lynn Katz, The University of Texas, lynnkatz@mail.utexas.edu

Emerging Topics: Permafrost Geochemistry, Machine Learning, Artificial Intelligence and Big Data in Geochemistry

Organizer: Emily Bristol, The University of Texas, bristol@utexas.edu

Jacob Harvey, Sandia National Laboratories, jharve@sandia.gov

General Geochemistry

Organizer: Lynn Katz, The University of Texas, lynnkatz@mail.utexas.edu

SPRING 2024 GEOC MEETING ANNOUNCEMENTS

The spring 2024 ACS National Meeting, “Many Flavors of Chemistry”, will be held from March 17-21 in New Orleans, LA. The meeting will include hybrid and virtual sessions.

Abstracts are OPEN!
Abstract submission until October 2, 2023

Please consider submitting an abstract. The abstract submission link can be found at: <https://www.acs.org/meetings/acs-meetings/spring/presenters/submit-an-abstract.html>

Session descriptions are available here: <https://callforabstracts.acs.org/acsspring2024>

Our symposium are:

Fundamental and Applied Geochemistry of Critical Minerals

Organizers: Sebastien Kerisit and Yuanzhi Tang

Geochemical, Environmental and Sociotechnical Implications of Mining

Organizers: Scott Fendorf and Lynn Katz

Geochemistry for CO₂ Capture, Conversion, and Long-Term Storage

Organizers: Laura Dalton, Erika Plante, Juliane Weber and Ke Yuan

Intermediate And Disordered Phases in Natural Systems

Organizers: Jeffrey Catalano, Sebastian Mergelsberg, and Hsiu Wen Wang

Microbially-Driven Geochemical Reactions: Kinetics and Communities

Organizers: William Burgos, Clara Chan, William Leavitt and Jennifer Macalady

Fundamental Understanding of the Structure and Reactivity at Mineral-Water Interfaces

Organizers: Sang Soo Lee, Shawn Reichers, and Jacquelyn Bracco

Some Like it Hot: A Symposium in Honor of Michael L. Machesky

Organizers: Nadine Kabengi, James Kubicki and Moira Ridley

Recognizing Diversity in Geochemistry: Bridging People and Science to Communities

Organizers: Stetson Rowles and Lynn Katz

Undergraduate Research in Geochemistry

Organizer: Jacquelyn Bracco

General Geochemistry

Organizer: Lynn Katz

We are also co-sponsoring several symposia including :

Aquatic Photochemistry (with ENVR)

Biogeochemistry of Organic Matter in Marine Environments (with ENVR)

Environmental Behavior of Atmospherically Transported Chemicals (with ENVR)

Rare Earth Element: Occurrences, Extraction Method Development, and Application (with ENVR)

Liquid And Electrolyte Anomalies in Nano-Confinement: Structure, Dynamics, and Reactivity (with PHYS)

F-Element Reactivity at Interfaces (with NUCL)

Aquatic Redox Chemistry (with ENVR, co-sponsorship pending ACS approval)

Organizers: Christopher Gorski, Paul Tratnyek, Kevin Rosso, and Jasquelin Pena

CALL FOR TRAVEL AWARD APPLICATION

Dear colleagues,



We are pleased to announce the applications for the Geochemistry Division's **Student Travel Award** and **Early Career Scientist Travel Award** for the Spring 2024 ACS National Meeting in New Orleans, LA. See below for award descriptions and procedures.

Student Travel Award

Number of awards: Up to 5 awards based on the quality of the applications.

Award: (1) The Geochemistry Division will pay for the awardees' registration for the ACS National Meeting plus a \$400 stipend. (2) Awardees will be given an extended time allocation (typically 25-30 minutes) for their oral presentations.

Eligibility: (1) The applicant must be an undergraduate or graduate student. (2) The applicant must have already submitted a regular abstract to MAPS for the meeting (see Application Procedure for details). (3) The applicant must be the presenting author. (4) Only one application per presenting author will be considered. (5) The awardee must be a member of ACS Geochemistry Division at the time of the conference.

Early Career Scientist Travel Award

Number of awards: Up to 2 awards based on the quality of the applications.

Award: (1) The Geochemistry Division will pay for the awardees' registration for the ACS National Meeting plus a \$400 stipend. (2) Awardees will be given an extended time allocation (typically 25-30 minutes) for the oral presentation.

Eligibility: (1) The applicant must have received their PhD degree within 7 years of the award submission deadline (October 9, 2023). If there are extenuating circumstances (such as time off for raising children), please contact: lynnkatz@mail.utexas.edu (2) The applicant must have already submitted a regular abstract to MAPS for the meeting (see Application Procedure for details). (3) The applicant must be the presenting author. (4) Only one application per presenting author will be considered. (5) The awardee must be a member of ACS Geochemistry Division at the time of the conference.

CALL FOR TRAVEL AWARD APPLICATION

Application Procedures

Submitting your regular abstract to the ACS Meeting Abstract Programming System (MAPS <http://maps.acs.org>) before the abstract due date (October 2, 2023).

Submit a separate, extended abstract to the GEOC Program Chair, Lynn Katz, at: lynnkatz@mail.utexas.edu

Extended abstracts should not exceed one page (use at least 11-pt font, single-line spacing, and 1-inch margins) and may contain tables and figures (counted toward the page limit). Make sure to (1) include your name, affiliation, abstract title, and abstract number, and (2) indicate whether you are an undergraduate/graduate student (for the Student Travel Award) or your PhD degree date/year (for the Early Career Scientist Travel Award).

Extended abstracts must be received by October 9, 2023.

Evaluation

Abstracts will be judged based on the impact on the field of geochemistry, technical approach, quality and clarity of writing, relevance of the abstract to the symposia and national meeting themes, and balance among different symposia.

Award winners will be announced by the end of January, 2024.

Questions?

General information about the conference can be found at: <https://www.acs.org/content/acs/en/meetings/national-meeting.html>

Questions about the awards should be directed to

lynnkatz@mail.utexas.edu

GEOCHEMISTRY DIVISION FALL 2023 ELECTION

ACS Geochemistry Division is currently seeking nominations for two officer positions, Program-Chair Elect and Secretary, who will assume their roles in January 2024. A brief description of each role is provided below.

Program-Chair Elect (4-year term):

This officer will serve as Program-Chair Elect in the first year, shadow the Program Chair, and assist the Division Chair with the direction and management of the Division. In the second year, the candidate will serve as Program Chair and organize the symposium at the fall and spring national meetings. In the third year, the candidate will serve as Division Chair, and finally as Immediate Past Division Chair in the fourth year.

Secretary (3-year term):

This officer is responsible for supporting a broad range of Division's activities. These duties include to keep a record of the minutes of the meetings of the Division and of the Executive Committee, to maintain a list of members and affiliates, to send to members and affiliates such notices as the business of the Division may require, to submit a report to the Division at its annual meeting, and to carry out the duties required by the Constitution and Bylaws of the SOCIETY and elsewhere in these bylaws.

Note:

Self-nominations and consensual nominations of colleagues are encouraged!

Per GEOC Bylaws, all nominations must be accompanied by **at least 10 signatures of support from current ACS GEOC Members (including current Division Committee members)**.

All nominees must have been a Member of the Division for **at least one year at the time of nomination.**

Nomination and the signatures of support must be submitted by **October 20.**

Please submit the nomination or any questions to:

Jacquelyn Bracco

ACS Geochemistry Division Secretary

jbracco@qc.cuny.edu