



ACS Division of Energy & Fuels

ACS ENFL 2024 Summer Newsletter

As we dive into the vibrant season of summer, the ACS 2024 Fall National Meeting draws nearer, promising a tapestry of exciting events and opportunities within the ENFL Division. In our summer newsletter, we unveil the ENFL Division Roadmap, Technical Programs and a list of events that await you in Denver, including detailed insights into our eagerly anticipated Division Banquet, TechShow, and exclusive NREL Tour. For those of you passionate for collaborating with us in organizing symposia at ACS 2025 Fall, we kindly remind you to fill out the registration form by TODAY. Additionally, discover upcoming award opportunities designed to recognize outstanding contributions in the field of energy and fuels. Lastly, don't forget to complete our membership survey for a chance to win a \$100 Amazon gift card. Join us as we embark on a journey of discovery and collaboration within the vibrant community of the ENFL Division.

Newsletter Editors: Honghong "Crystal" Shi, Shize Yang



ACS Division of Energy & Fuels

ENERGY & FUELS DIVISION

2024 Fall Business Meetings and Social Events

- ❖ **ENFL Programming Committee Meeting**
 - ❖ Time: Sunday, August 18, 1:00-2:00 pm
 - ❖ Location: Colorado Convention Center: Room 601
- ❖ **ENFL Executive Committee Meeting**
 - ❖ Time: Sunday, August 18, 2:00-3:00 pm
 - ❖ Location: Colorado Convention Center: Room 601
- ❖ **ENFL Open Reception & Tech Show**
 - ❖ Time: Sunday, August 18, 5:30-9:00 pm
 - ❖ Location: Colorado Convention Center: Four Seasons Ballroom 1
- ❖ **ENFL Division Dinner** **ALMOST SOLD OUT!**
 - ❖ Time: Monday, August 19, 6:00-9:00 pm
 - ❖ Restaurant: Coohills 1400 Wewatta St, Denver, CO 80202
- ❖ **ENFL NREL Tour (SOLD OUT)**
 - ❖ Time: Wednesday, August 21, 9:00-11:30 am
 - ❖ Bus provided by ENFL will leave at 8:15 am sharp; other details will be emailed to each participant.

Highlights of Technical Programs from ENFL

- 600+ Presentations (330 oral in-person + 86 oral hybrid, 30 oral virtual; 166 posters in-person)
- 24 Symposiums*
- 63 Sessions: 48 oral (38 in-person, 10 hybrid) + 15 posters (13 in-person + 2 virtual)
- 22 Sci-Mix Posters + 4 Non-technical events

*Each ENFL symposium organizer is invited to pick up one Goodie Bag from the ENFL Division Service Desk around Rooms 503-507 in the Colorado Convention Center

Scan this QR code to access the mobile app for the full schedule of ENFL technical programs



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ACS FALL 2024

ELEVATING CHEMISTRY

ENFL program is scheduled to take place in the Colorado Convention Center

INVITED AND AWARDS SYMPOSIA

ENERGY SUMMIT

8/20, TUESDAY, 2 PM, ROOM 507

- **SPEAKERS:** Feng Lin; Amy Marschlok; Paul Braun; Hui Xiong; Catalin Gainaru; Yan Yao

EARLY CAREER SYMPOSIUM IN ENERGY & FUELS

8/19, MONDAY, 8 AM, ROOM 502

- **SPEAKERS:** Akanksha Menon; Jason Hirschey; Ana Morais; Kyle Foster; Lily Robertson; Samantha Miller

2024 ENERGY LECTURESHIP AWARD SYMPOSIUM HELD JOINTLY WITH ACS ENERGY LETTERS

8/18, SUNDAY, 2 PM, ROOM 505

- **SPEAKERS:** Marm Dixit; Daniel Tabor; Leitong Zhang; Ya You (awardee); Bryan McCloskey; Lauran Marbella; Venkatasubramanian Wiswanathan (awardee)

GEORGE A. OLAH AWARD IN HYDROCARBON OR PETROLEUM CHEMISTRY IN HONOR OF UMIT OZKAN

8/19, MONDAY, 8 AM, BLUEBIRD BALLROOM 3H

- **SPEAKERS:** Harold Kung; Jingguang Chen; Alexis Belli; Thomas Jaramillo; Elizabeth Biddinger; Umit Ozkan

8/19, MONDAY, 2 PM, BLUEBIRD BALLROOM 3H

- **SPEAKERS:** Jeffrey Miller; Stuart Soled; Enrique Iglesias; Nicholar Brunelli; Susannah Scott; Alexander Katz; Yeping Cai; Sittichai Natesakhawat; Edgar Mootezuma

8/20, TUESDAY, 8 AM, BLUEBIRD BALLROOM 3H

- **SPEAKERS:** Simon Bare; Jingli Luo; Eranda Nikolai; Paul Matter; Hua Song; Chushan Song; Aravind Asthagiri; Rachel Getman; Christopher Jones

8/20, TUESDAY, 2 PM, BLUEBIRD BALLROOM 3H

- **SPEAKERS:** Johannes Lercher; Josephine Hill; Yonmg Wang; John Kunn; Deeksha Jain; Hyuntae Sohn; Gokhan Celik; Dhruba Jyoti Deka; Sreshtha Sinha Majumdar

ENFL DISTINGUISHED RESEARCHER AWARD SYMPOSIUM IN HONOR OF ERIC M. SUUBERG

8/20, TUESDAY, 9 AM, ROOM 502

- **SPEAKERS:** Michael Serio; Jillian Goldfarb; Jinxia Fu; Randall Winans; Yijun Yao

8/20, TUESDAY, 2 PM, ROOM 502

- **SPEAKERS:** Robert Hurt; Hsisheng Teng; Marek Wójtowicz; Eric Suuberg

ENFL MID-CAREER AWARD SYMPOSIUM IN HONOR OF JINGBO LOUISE LIU

8/19, MONDAY, 2 PM, ROOM 506

- **SPEAKERS:** Joseph Sabot; Liang-Shih Fan; Anne Co; Michelle Kidder; Jinghua Guo; Ayrat Gizzatow; Qiang Zhang; Kunyu Wang; Xianqin Wang; Virender Sharma; Jonathan Larson; Omar Farha

8/20, TUESDAY, 8 AM, ROOM 507

- **SPEAKERS:** Josephine Hill; Chunshan Song; Ashraf Abedin; Sarbajit Banerjee; Wei Zhang; Hong Wang; Shengqian Ma

8/20, TUESDAY, 2 PM, ROOM 505

- **SPEAKERS:** Wei Wang; Andrei Jitianu; Yun Hu; Emanuela Andreescu; Di-Jia Liu; Viola Birss; Susan Hovorka; Jingbo Liu

TECHNICAL SYMPOSIA

ADVANCES IN ENERGY AND FUELS

8/20, TUESDAY, 7 PM, HALL A-C (poster only)

ACS WOMEN IN ENERGY

8/21, WEDNESDAY, 8 AM, ROOM 407

- **SPEAKERS:** Marianne Walck; Parisa Bazazi; Haiyan Mao; Wendy Shaw; Muhua Zhao; Marta Antoniv; Jaime DuMont; Cailin Buchanan; Hannah Holmes

8/21, WEDNESDAY, 2 PM, ROOM 407

- **SPEAKERS:** Jingbo Liu; Hui Wang; Eliandreina Cruz; Xianqin Wang; Jiaqi Yu; Jacqueline Garrido

8/20, TUESDAY, 7 PM, HALL A-C (poster)

ELECTRIFIED PROCESSES AND METHODS FOR INDUSTRIAL DECARBONIZATION

8/19, MONDAY, 8 AM, ROOM 503

8/19, MONDAY, 2 PM, ROOM 503

8/20, TUESDAY, 7 PM, HALL A-C (poster)

MATERIALS, ELECTROLYTES, AND INTERPHASES IN SUSTAINABLE BATTERY TECHNOLOGY

8/19, MONDAY, 8 AM, ROOM 506

8/19, MONDAY, 2 PM, ROOM 502

8/20, TUESDAY, 8 AM, ROOM 506

8/20, TUESDAY, 2 PM, ROOM 506

8/19, MONDAY, 12 PM, HALL A-C (poster)

GREEN CHEMICAL SYNTHESIS AND PROCESS INTENSIFICATION FOR ENABLING NEW CHEMICAL PATHWAYS

8/18, SUNDAY, 8 AM, ROOM 502

8/18, SUNDAY, 2 AM, ROOM 502

EMERGING MATERIALS FOR SOLAR ENERGY CONVERSION AND UTILIZATION

8/18, SUNDAY, 8 AM, ROOM 507

8/18, SUNDAY, 2 PM, ROOM 507

8/20, MONDAY, 8 AM, ROOM 507

8/20, MONDAY, 2 PM, ROOM 507

8/19, MONDAY, 12 PM, HALL A-C (poster)

ELECTROCHEMICAL CARBON VALORIZATION: CATALYTIC CONVERSION OF CO₂ AND CO₂-DERIVED COMPOUNDS INTO FUELS AND CHEMICAL FEEDSTOCKS

8/18, SUNDAY, 2 PM, ROOM 407

8/19, MONDAY, 8 AM, ROOM 407

8/19, MONDAY, 2 PM, ROOM 407

8/20, TUESDAY, 12 PM, HALL A-C (poster)

DIRECT AIR CAPTURE OF CO₂ (DAC): MATERIALS, CHEMISTRY, AND NOVEL PROCESSES

8/20, TUESDAY, 8 AM, ROOM 503

8/20, TUESDAY, 2 PM, ROOM 503

8/21, WEDNESDAY, 8 AM, ROOM 503

8/20, TUESDAY, 12 PM, HALL A-C (poster)

HARNESSING ADDITIVE MANUFACTURING FOR ENERGY MANAGEMENT APPLICATIONS

8/21, WEDNESDAY, 2 PM, ROOM 506

8/20, TUESDAY, 7 PM, HALL A-C (poster)

IONIC LIQUID FOR CLEAN ENERGY TECH: UNLEASHING THE POTENTIAL FOR A SUSTAINABLE FUTURE

8/18, SUNDAY, 8 AM, ROOM 503

8/18, SUNDAY, 2 PM, 503

8/19, MONDAY, 12 PM, HALL A-C (poster)

ADVANCING LITHIUM-ION BATTERY RECYCLING:

SUSTAINABLE SOLUTIONS FOR A CIRCULAR ECONOMY

8/18, SUNDAY, 8 AM, BLUEBIRD BALLROOM 3H
8/18, SUNDAY, 2 PM, BLUEBIRD BALLROOM 3H
8/19, MONDAY, 8 AM, ROOM 505

ADVANCES IN CO₂ CAPTURE AND CONVERSION: MINERALIZATION, DIRECT OCEAN CAPTURE, AND MODELING

8/21, WEDNESDAY, 8 AM, ROOM 502
8/21, WEDNESDAY, 2 PM, ROOM 502

VALORIZATION OF BIOMASS TO ADVANCED FUELS AND CHEMICALS

8/18, SUNDAY, 8 AM, ROOM 506
8/18, SUNDAY, 2 PM, ROOM 506
8/19, MONDAY, 12 PM, HALL A-C (poster)

CRITICAL PERSPECTIVES ON GREEN HYDROGEN PRODUCTION AND UTILIZATION

8/21, WEDNESDAY, 8 AM, ROOM 507
8/21, WEDNESDAY, 2 PM, ROOM 503

MATERIALS, CATALYSTS AND CHEMICAL SCIENCES FOR HYDROGEN STORAGE

8/20, TUESDAY, 8 AM, ROOM 407
8/21, WEDNESDAY, 8 AM, ROOM 506
8/20, TUESDAY, 12 PM, HALL A-C (poster)

ENERGY-EFFICIENT TECHNOLOGIES TO SYNTHESIZE BIOFUELS, BIOCHEMICALS AND BIOMATERIALS

8/18, SUNDAY, 8 AM, ROOM 407
8/19, MONDAY, 12 PM, HALL A-C (poster)

ELEVATING THE DISCUSSION AROUND METHANE

8/18, SUNDAY, 8 AM, ROOM 505

VIRTUAL GRADUATE STUDENTS SYMPOSIUM IN ASIA- PACIFIC REGION ON HYDROGEN ENERGY AND CO₂ CONVERSION

8/19, MONDAY, 5:30 PM, VIRTUAL
8/20, TUESDAY, 5:30 PM, VIRTUAL

NON-TECHNICAL EVENTS

ENFL PROGRAMMING COMMITTEE MEETING

8/18, SUNDAY, 1:00 PM - 2:00 PM, ROOM 601

ENFL EXECUTIVE COMMITTEE MEETING

8/18, SUNDAY, 2:00 PM - 3:00 PM, ROOM 601

ENFL DIVISION RECEPTION AND TECH SHOW

8/18, SUNDAY, 5:30 PM - 9:00 PM, FOUR SEASONS BALLROOM 1
ALL ARE WELCOME! Meet industry and start-ups reps.

ENFL DIVISION DINNER (Tickets purchased through ACS)

8/19, MONDAY, 6:00 PM - 9:00 PM
COOHILLS RESTAURANT, 1400 WEWATTA ST, DENVER, CO 80202

ENFL NREL TOUR

8/21, WEDNESDAY, 9:00 AM - 11:30 AM

Prof. Burcu Gurkan, 2024 Fall ACS ENFL Program Chair, beg23@case.edu

Prof. Liangbing Hu, 2024 Fall ACS ENFL Program Co-Chair, liangbing.hu@yale.edu

Programming Committee Members

Yingwen Chen; Xizheng Wang; Fateme Rezaei; Greeshma Gadikota; Anne Co; Fan Shi; Yan Yao; Jinxia Fu; Wei Wei; Feng Jiao

Notes on Special Events

Event Name: **ENFL Open Reception and Tech Show**

The ACS ENFL Division invites you to a special event: the ENFL Open Reception and Tech Show, scheduled for **Sunday, August 18, from 5:00 PM to 9:00 PM at Room 601, Colorado Convention Center.** This event is open to all and free for ENFL members! Drinks, snacks, and light food will be provided.

This inaugural ENFL Open Reception aims to welcome its members, recruit new members, stimulate networking, and celebrate award winners. We will be honoring recipients of the inaugural *2024 Energy Lectureship Award* co-launched with **ACS Energy Letters**, and the *Emerging Researcher Award*, *Mid-Career Award*, and *Distinguished Researcher Award* of ENFL.

Following the reception, we will feature the ENFL Tech Show, showcasing innovations and technologies from companies in the energy fuels field. Over a dozen companies will present posters on various technologies, including batteries, energy storage, catalysts, new materials, plastic recycling, and more.

Following the Tech Show, we will host a panel discussion with prominent industry leaders from **Dow Chemical** and **Lummus Technology**, along with esteemed academic professors. The discussion will focus on the role of translational research in facilitating the energy transition.

Join us for an evening of learning, networking, and celebration!



Event Name: **NREL Tour**

Registration Status: CLOSED (SOLD OUT);

Event Date: **Wednesday, August 21, from 9:00 AM to 11:30 PM**; The location of bus departure and other important information will be emailed to the registered participants.

Important notes:

1. The bus will leave at 8:15 am sharp (it takes 25-30 minutes to get there, but we need to give a buffer for the ID verification at the NREL gate)
2. Visitors to NREL **MUST** be at the bus - Participants in personal or ride-app vehicles won't be allowed.
3. Please bring a photo ID with you
4. **NO** recording or picture at the facility is permitted
5. After the tour, the bus will return to the Convention Center

Call for Volunteers



During the upcoming ACS Fall National Meeting, we are pleased to announce the opening of our **ENFL Service Desk** located in the vicinity of Room 504 at the Conventional Center through the conference week. Here, you can find our information flyers and meet with division representatives to discuss any questions you may have regarding volunteer opportunities or other inquiries. We look forward to welcoming you and assisting with your needs at our service desk.

Meanwhile, the ENFL Division requests volunteers for **Tabling** (August 18-21, 8:00 AM – 6:00 PM, August 22, 8:00 AM – 12:00 NN) and for participation in the **Division Row Sci-Mix event** to be held on Monday, August 19, 8:00-10:00 PM. We would be delighted if you can help us.

Please choose your availability using the link [Doodle Booking Page](#)

Tip: Please take note of the Time Zone (Denver is MT) when comparing with your calendar.

Reminder on Symposium Proposal Submission

We are currently in the process of organizing the symposium sessions and are seeking dynamic and engaging symposia proposals for the **2025 ACS Fall National Meeting, August 17 – 21, Washington, DC**.

If you are interested in organizing a symposium, please fill out the form:

[Google Form Link](#)

The symposium proposal submission deadline is **TODAY (August 5th, 2024)**.

We are confident that your contribution will make a significant impact on the quality and diversity at the ACS National Meeting. Your dedication to advancing the field is highly appreciated, and we look forward to your potential involvement in shaping the program for 2025.

Should you have any questions or require further information, please do not hesitate to the topic leads.

1. Battery: Yan Yao ✉ yyao4@central.uh.edu
2. Electrocatalysis: Feng Jiao ✉ jiaof@wustl.edu
3. Carbon Capture, Utilization, and Storage:
Fan Shi ✉ fan.shi@netl.doe.gov
4. Renewable and Sustainable Energy:
Chang Geun Yoo ✉ cyoo05@esf.edu
5. Hydrocarbon and Conventional Energies:
Estrella Rogel ✉ ERGC@chevron.com
6. General: Jinxia Fu ✉ jinxiafu@hawaii.edu

Award Announcement

We are delighted to extend our congratulations to Dr. Shu Hu and Dr. Fateme Rezaei for winning the **2024 ENFL Emerging Researcher Award!** This award is sponsored by the Division of Energy & Fuels and its purpose is to recognize sustained and distinguished contributions to the field of fuel chemistry. The award consists of \$1000, a plaque commemorating the award, and a ticket to the Division dinner.

Prof. Shu Hu (Yale University)



Dr. Shu Hu is an Assistant Professor in the Department of Chemical and Environmental Engineering at Yale University, joint with the newly formed Energy Sciences Institute on the Yale West Campus. His group studies photocatalysis in the context of multi-scale reaction environments. His lab is interested in high quantum efficiency photocatalytic chemical conversion, considered a game changer in sustainable chemical and materials transformation, with research directions spanning from photocatalysis, and semiconductor-liquid interfaces, to nanoscale semiconductor synthesis and operando spectroscopy. His group's impact has been recognized through several awards including the DOE Early Career Award, ECS Young Investigator Award for Energy Technology, MRS Emerging Researcher, and Global Chinese Chemical Engineer Awards, and was given several named lectureships including the Schottky Lectureship at TUM and Brown & Williamson Chemistry Lectureship at the University of Louisville. He currently serves as the Secretary of the New England Catalysis Society. Dr. Shu Hu received his Ph.D. from Stanford University in Materials Science and Engineering. Between 2012 and 2015, he did postdoctoral work in the Department of Chemistry with Professor Nathan S. Lewis at California Institute of Technology, where he discovered coating-stabilized photochemical interfaces.

Prof. Fateme Rezaei (University of Miami)



Dr. Fateme Rezaei is Professor of Chemical Engineering in the Chemical, Environmental and Materials Engineering Department at University of Miami (UM). Prior to joining UM, she held Linda and Bipin Doshi Endowed Professor of Chemical Engineering at Missouri S&T. She obtained her PhD degrees in Chemical Engineering from Monash University in Australia and LTU in Sweden in 2011. She worked as a postdoctoral fellow at Georgia Tech. Her research focus broadly lies at the interface of chemical, materials science and environmental engineering, and the overall goal of her research group is development of advanced materials and processes for separation, purification, and storage applications. She is the author of over 150 peer-reviewed journal articles and has received several awards including 2021 ACS Women Chemists Committee (WCC) Rising Star Award; 2020 UM System president's Award for Career Excellence-Early Career; 2018 Energy & Fuels Award for Excellence in Publication; as well as 2021 and 2018 Missouri S&T Faculty Research Award. She is the Associate Editor of ACS Energy & Fuels journal and editorial member of Journal of CO₂ Utilization and Frontiers in Energy Research.

Upcoming Award Opportunitites

We are now accepting nominations of candidates for the **2025 Energy Lectureships**. The Energy Lectureships is a joint, multi-year collaborative initiative between ACS Publications and the ACS Division of Energy and Fuels (ENFL) to recognize distinguished contributions to fundamental or engineering research & development and education that address the world's energy and chemical challenges in the area of energy. The 2025 agreed-upon focus between ACS Applied Energy Materials and ENFL is **Solar Energy Conversion**. For additional details see [2025 Award Nomination Information](#).

The 2024 Energy Lectureship award was in the area of Energy Storage. Please click on the linked article for more details on [2024 Energy Lectureship Awards](#). The award symposium will feature finalists and awardees at the Denver ACS meeting.

This award will be presented to 2 distinct awardees:

- One outstanding early-career investigator
- One outstanding mid-career investigator

The award winner/winners will receive the following:

- A plaque.
- Registration for the ACS Fall Meeting.
- An honorarium of USD \$2,000 for the mid-career investigator and USD \$1,000 for the early-career investigator.
- Travel, lodging, and meal expenses of up to USD \$2,500 to support attending the ACS National Meeting.
- The opportunity to present a talk on their research at the ACS National Meeting.

Please check the link below to learn eligibility and other information about the 2025 Energy Lectureships. At the same time, stay tuned for the next open calls for other ENFL award opportunities

[List of ENFL Awards](#)

Membership Satisfactory Survey

The ENFL division is providing a survey to explore better ways to serve members like you. This survey should take only a few minutes to complete. Upon completion, you will be eligible to enter for a chance to win one of **\$100 Amazon cards**. Please complete the survey using the link below before August 18, 2024.

[ACS Energy and Fuels Division 2024 Membership Survey](#)

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