

# ENERGY & FUELS DIVISION

## 2023 Spring Business Meeting and Social Events



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- **ENFL Program Meeting (hybrid)**
  - Time: Sunday, March 26, 1:00-3:00 pm
  - Location: Indiana Convention Center Room 239
  - Zoom: <https://american-chemical-society.zoom.com/j/82184409326?pwd=dzArZENXUVArbjdhMIFNdKjY2VTdNZz09>
- **ENFL Executive Meeting (hybrid)**
  - Time: Sunday, March 26, 4:00-7:00 pm
  - Location: Indiana Convention Center Room 239
  - Zoom: <https://american-chemical-society.zoom.com/j/82184409326?pwd=dzArZENXUVArbjdhMIFNdKjY2VTdNZz09>
- **ENFL Symposium Organizers Breakfast**
  - Monday, March 27, 7:00-9:00 am
  - Connor's Kitchen and Bar (Indianapolis Marriott)
- **ENFL Division Dinner and Award Ceremony**
  - Time: Monday, March 27, 6:30-9:00 pm
  - Location: Nevermore at Union Station (<https://nevermoreunionstation.com/>)  
302 S Meridian St, Indianapolis, IN 46225
  - Note: tickets may be available at the ENFL Information table if not purchased during registration
- **ENFL Business Meeting and Student Award Competition (hybrid)**
  - Time: Tuesday, March 28, 12:00-5:00 pm
  - Location: Indianapolis Marriott Downtown: Ballroom 5
  - Zoom: <https://american-chemical-society.zoom.com/j/82184409326?pwd=dzArZENXUVArbjdhMIFNdKjY2VTdNZz09>



# 2023 Spring ACS ENFL Technical Program

## A Glance by Numbers:

- 509 presentations (410 oral + 99 posters)
- 16 Symposiums
- 52 Sessions: 50 oral (31 in-person, 4 virtual, 15 hybrid) + 2 posters (1 in-person + 1 virtual);
- 44 Sci-Mix Posters

Sunday, March 26, 2023	Monday, March 27, 2023	Tuesday, March 28, 2023	Tuesday, March 28, 2023 (cont'd)	Wednesday, March 29, 2023 (cont'd)
<b>Early Career Investigator Spotlight:</b> 08:00am - 12:00pm   Location: Room144	<b>ENFL Research Excellence Award in Electrochemical Energy Storage in Honor of Liangbing Hu:</b> 08:00am - 12:00pm   Location: Room140	<b>Flow Cells for Long Duration Energy Storage and Electrochemical Conversion: Chemistry, Materials, and Technologies:</b> 08:00am - 11:00am   Location: Room144	<b>Advanced Manufacturing for Energy Storage and Recycling Science and Technology</b> 02:00pm - 06:00pm   Location: Room140	<b>Advanced Manufacturing for Energy Storage and Recycling Science and Technology</b> 08:00am - 12:00am   Location: Room144 02:00pm - 04:55pm   Location: Room139 12:00pm - 02:00pm   Virtual Only
<b>Applied Electrochemistry for Advanced Fuel Cell and Electrolyzer Technologies:</b> <ul style="list-style-type: none"> <li>• <b>Advanced OER for Water Electrolyzers</b> 08:00am - 11:40am   Location: Room141</li> <li>• <b>Innovative Electrocatalysis for Water Splitting</b> 02:00pm - 05:40pm   Location: Room141</li> </ul>	<b>Applied Electrochemistry for Advanced Fuel Cell and Electrolyzer Technologies:</b> <ul style="list-style-type: none"> <li>• <b>Innovative Fuel Cell Principle and Catalysts</b> 08:00am - 11:50am   Location: Room141</li> <li>• <b>CO<sub>2</sub>/CO Reduction</b> 02:00pm - 05:50pm   Location: Room141</li> </ul>	<b>Applied Electrochemistry for Advanced Fuel Cell and Electrolyzer Technologies:</b> <ul style="list-style-type: none"> <li>• <b>Innovative Electrocatalysis for Sustainability</b> 08:00am - 12:00pm   Location: Room140</li> <li>• <b>Advanced Electrocatalysis</b> 03:00pm - 05:10pm   Virtual Only</li> </ul>	<b>Chemistry, Soil and Energy Connections in Agricultural Decarbonization</b> 02:00pm - 06:05pm   Location: Room139	<b>Emerging Materials for Solar Energy Conversion and Utilization</b> 08:00am - 11:30am   Location: Room141 02:00pm - 04:00pm   Location: Room141 12:00pm - 02:00pm   Virtual Only
<b>Catalytic and Non-Catalytic Upgrading of Heavy Oil and Bio-Crude Oils:</b> <ul style="list-style-type: none"> <li>• <b>Catalytic Upgrading Processes for Heavy Oils</b> 08:00am - 12:00pm   Location: Room142</li> <li>• <b>Catalytic Upgrading Processes for Bio-Crude Oils and Aviation Fuels</b> 02:00pm - 05:20pm   Location: Room142</li> </ul>	<b>Catalytic and Non-Catalytic Upgrading of Heavy Oil and Bio-Crude Oils: Advanced Characterization Methods</b> 08:00am - 11:00am   Location: Room142	<b>Materials, Mechanisms and Methods in Battery Technology: Aqueous Batteries</b> 08:00pm - 11:45am   Location: Room143 <b>Solid-State Electrolytes</b> 02:00pm - 05:15pm   Location: Room143	<b>Next-Generation Conversion/Alloying Chemistries for High-Capacity Batteries</b> 08:00am - 11:20am   Location: Room141 02:00pm - 05:05pm   Location: Room138	<b>Electrooxidation of Organic Molecules for Energy and Sustainability</b> 08:00am - 11:50pm   Location: Room140 02:00pm - 05:35pm   Location: Room143 12:00pm - 02:00pm   Virtual Only
<b>Materials, Mechanisms and Methods in Battery Technology:</b> <ul style="list-style-type: none"> <li>• <b>Beyond Li Batteries</b> 08:00am - 11:50am   Location: Room139</li> <li>• <b>Cathode Materials</b> 02:00pm - 05:15pm   Location: Room143</li> </ul>	<b>Materials, Mechanisms and Methods in Battery Technology:</b> <ul style="list-style-type: none"> <li>• <b>Li Metal Batteries</b> 08:00am - 11:30am   Location: Room143</li> <li>• <b>Liquid Electrolyte, Interface and Anode</b> 02:00pm - 5:05pm   Location: Room143</li> </ul>	<b>Closing the Carbon Cycle:</b> <ul style="list-style-type: none"> <li>• <b>Carbon, Capture, Sequestration, and Alternatives to Carbon</b> 08:00am - 12:00pm   Location: Room139</li> <li>• <b>Alternatives to Carbon and Biological Approaches to Decarbonization</b> 02:00pm - 06:05pm   Location: Room142</li> </ul>	<b>Emerging Materials for Solar Energy Conversion and Utilization</b> 10:00am - 01:10am   Virtual Only 02:00pm - 05:50pm   Location: Room141	<b>Flow Cells for Long Duration Energy Storage and Electrochemical Conversion: Chemistry, Materials, and Technologies</b> 08:00am - 10:50am   Location: Room139 02:00pm - 04:20pm   Location: Room142
<b>Differentiating and Quantifying Biogenic and Fossil Carbon in Transportation-Related Fuels</b> 08:00am - 11:40am   Location: Room140 02:00pm - 04:00pm   Location: Room144	<b>Closing the Carbon Cycle:</b> <ul style="list-style-type: none"> <li>• <b>Keeping Carbon in Play</b> 08:00am - 12:00pm   Location: Room139</li> <li>• <b>Reactive Separations</b> 02:00pm - 06:00pm   Location: Room144</li> </ul>	<b>Electrooxidation of Organic Molecules for Energy and Sustainability:</b> 08:00am - 11:50am   Location: Room142 02:00pm - 05:35pm   Location: Room144	<b>Wednesday, March 29, 2023</b>	<b>Next-Generation Conversion/Alloying Chemistries for High-Capacity Batteries</b> 08:00am - 11:05am   Location: Room143 12:00pm - 02:00pm   Virtual Only 03:00pm - 04:30pm   Virtual Only
<b>Advances in Lignin-Derived Fuels and Chemicals</b> 08:00am - 11:45am   Location: Room143 02:00pm - 06:00pm   Location: Room139	<b>Thermal Catalysis for Natural Gas and CO<sub>2</sub> Conversions</b> 08:00am - 10:50am   Location: Room144	<b>ENFL Student Award Competition</b> 02:00pm - 05:00pm   Location: Marriott Ballroom 5 (Indianapolis Marriott Downtown)	<b>Applied Electrochemistry for Advanced Fuel Cell and Electrolyzer Technologies</b> 12:00pm - 02:00pm   Virtual Only	<b>Materials, Mechanisms and Methods in Battery Technology</b> 10:00am - 12:20pm   Virtual Only 12:00pm - 02:00pm   Virtual Only
<b>Thermal Catalysis for Natural Gas and CO<sub>2</sub> Conversions</b> 02:00pm - 05:55pm   Location: Room140	<b>Next-Generation Conversion/Alloying Chemistries for High-Capacity Batteries</b> 02:00pm - 05:45pm   Location: Room139	<b>Poster Sessions</b> 12:00pm - 02:00pm   Location: Hall F-H	<b>Catalytic and Non-Catalytic Upgrading of Heavy Oil and Bio-Crude Oils</b> 12:00pm - 02:00pm   Virtual Only	
			<b>Advances in Energy &amp; Fuels</b> 08:00am - 11:50am   Location: Room142 12:00pm - 02:00pm   Virtual Only 03:00pm - 04:40pm   Virtual Only	
			<b>Poster Sessions</b> 12:00pm - 02:00pm   Virtual Only	

