



ORNL IS MANAGED BY UT-BATTELLE, LLC FOR THE US DEPARTMENT OF ENERGY

2026 SE Polymer Forum

Agenda as of (08/19/2026)

Event contact	Tomonori Saito, 865-574-4973 (office); saitot@ornl.gov Lilin He, 864-643-7246; hel3@ornl.gov Naresh Osti, 917-340-1192, ostinc@ornl.gov Rigoberto Advincula: rca41@case.edu		
Time	Event	Lead	Place
Day 1, Monday (10/12/2026)			
12:00PM-1:00PM	Badging/Registration		8600, Lobby
1:00PM-1:10PM	Welcome	Mark Lumsden	8600, A-103 (Iran Thomas Auditorium)
1:10PM-1:30PM	Tomonori Saito, ORNL: Soft Matter Research at ORNL	Lilin He	8600, A-103 (Iran Thomas Auditorium)
1:30PM-1:50PM	Scott Danielsen: Post-Polymerization Modification and Upcycling of Aromatic Thermoplastics		8600, A-103 (Iran Thomas Auditorium)
1:50PM-2:10PM	Jason Locklin: Polymer Chemistry and Engineering at the University of Georgia		8600, A-103 (Iran Thomas Auditorium)
2:10PM-2:30PM	Michael Bortner: Overview of the Macromolecules Innovation Institute at Virginia Tech		8600, A-103 (Iran Thomas Auditorium)



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Time	Event	Lead	Place
Day 1, Monday (10/12/2026)			
2:30PM-2:50PM	Colleen Scott: Structure/Property Relationship Governing Charge Transport in Polyaniline Derivatives	Lilin He	8600, A-103 (Iran Thomas Auditorium)
2:50PM-3:10PM	Rigoberto Advincula: AI/ML in Polymers and Materials Synthesis		8600, A-103 (Iran Thomas Auditorium)
3:10PM-3:25PM	Break	All	C-150/SNS Lobby
3:25PM-4:25PM	Brent Sumerlin: <i>Depolymerization as a Design Strategy</i> , Plenary talk	Tomonori Saito	8600, A-103 (Iran Thomas Auditorium)
4:25PM-5:25PM	Facilities tours	CNMS - Rigoberto Advincula SNS - Naresh Osti	SNS Lobby
5:25PM-7:00PM	Working Dinner: Poster session-1	All	C-150/SNS Lobby



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Time	Event	Lead	Place
Day 2 (10/13/2026)			
8:00AM-8:15AM	Regroup on Day 2, <i>Refreshments</i>	All	C-150/SNS Lobby
8:15AM-8:20AM	Day 2 announcement	Naresh Osti	8600, A-103 (Iran Thomas Auditorium)
8:20AM-9:20AM	Jennifer L. Schaefer : Polymer electrolytes for next generation electrochemical energy storage devices-Plenary talk	Naresh Osti	8600, A-103 (Iran Thomas Auditorium)
9:20AM-9:40AM	Weinan Xu : Sustainable polymer-/bio-composites with high thermal conductivity through unconventional biosynthesis and interfacial engineering		8600, A-103 (Iran Thomas Auditorium)
9:40AM-10:00AM	Juan Jose Sandino Trejos : Development of Polyaniline Derivatives with Improved Electrochemical Stability and Processability		8600, A-103 (Iran Thomas Auditorium)
10:00AM-10:10AM	group photo		SNS Lobby
10:10AM-10:20AM	Break	All	C-150/SNS Lobby



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Time	Event	Lead	Place
Day 2 (10/13/2026)			
10:20AM-10:40AM	Daniel Hallinan: Polymer Vignettes – Blends for Batteries, Critical Ion Separations, and Preceramic Grafted Nanoparticles	Lilin He	8600, A-103 (Iran Thomas Auditorium)
10:40AM-11:00AM	Xiao Sun: Carbonized Hollow Fiber Supported Copper Conductors for Power and Sensing Applications		8600, A-103 (Iran Thomas Auditorium)
11:00AM-11:20AM	Qixuan Xiang: Programming Internal Interfaces by Image-Guided Multimaterial Direct Ink Writing for Biointerfaces and Anisotropic Carbon Devices		8600, A-103 (Iran Thomas Auditorium)
11:20AM-11:40PM	Philip Barnett: Development of Print Parameter Optimization Calibration Geometry for Enhanced Interlayer Bonding in the Fused Filament Fabrication Process		8600, A-103 (Iran Thomas Auditorium)
11:40AM-12:00PM	Chathurika J. Kosgallana: Structure and Organization of Enzymes at Hydrated Chitosan Interfaces Revealed by Neutron and X-ray Reflectometry	Lilin He	8600, A-103 (Iran Thomas Auditorium)



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Time	Event	Lead	Place
Day 2 (10/13/2026)			
12:00PM-1:00PM	Working Lunch, Neutron talk (TBD)	All	C-150/8600, A-103 (Iran Thomas Auditorium)
1:00PM-1:20PM	Rana Ashkar: Polymer–Membrane Hybrids: A Bioinspired Platform for Programmable Soft Materials	Tomonori Saito	8600, A-103 (Iran Thomas Auditorium)
1:20PM-1:40PM	Adrian Figg: Agentic Design of Protein-Targeting Acrylic Oligomers: Molecular Design and High-throughput Synthesis		8600, A-103 (Iran Thomas Auditorium)
1:40PM-2:00PM	Sanket Deshmukh: TBD		8600, A-103 (Iran Thomas Auditorium)
2:00PM-3:00PM	Charles Sing: Controlling Dynamics and Thermodynamics of Polymer Materials with Rearranging Bonds- Plenary talk		8600, A-103 (Iran Thomas Auditorium)
3:00PM-3:15PM	Break	All	C-150/SNS Lobby
3:20PM-3:40PM	George Degen: Mussels, mucus, and mouthfeel	Naresh Osti	8600, A-103 (Iran Thomas Auditorium)



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Rigoberto Advincula: rca41@case.edu

Time

Event

Lead

Place

Day 2 (10/13/2026)

3:40PM-4:00PM

Sivakumar Irla: Liquid Crystal
Elastomers with Covalently Incorporated
Ionic Segments for Multifunctional
Electromechanical Applications

8600, A-103
(Iran Thomas
Auditorium)

4:00PM-4:20PM

Kenan Song: TBD

8600, A-103
(Iran Thomas
Auditorium)

4:20PM-5:20PM

Facilities tours

CNMS - Rigoberto
Advincula
SNS - Naresh Osti

SNS Lobby

5:20PM-7:00PM

Working Dinner- Poster session2

C-150/SNS Lobby



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Time	Event	Lead	Place
Day 3 (10/14/2026)			
8:00AM-8:30AM	Regroup Day 3, Refreshments	All	C-150/SNS Lobby
8:30AM-8:40AM	Day 3 announcement	Tomonori Saito	8600, A-103 (Iran Thomas Auditorium)
8:40AM-9:00AM	Anisur Rahman: Upcycling Consumer Plastic Waste into High-Performance Multifunctional Materials	Tomonori Saito	8600, A-103 (Iran Thomas Auditorium)
9:00AM-10:00AM	Christopher Li: Network Solid Polymer Electrolytes for All-Solid-State Batteries-Plenary talk		8600, A-103 (Iran Thomas Auditorium)
10:00AM-10:20AM	Shucong Li: Air-permeable hydrogels through viscoelastic phase separation of aerogels		8600, A-103 (Iran Thomas Auditorium)
10:20AM-10:40AM	Michael Schulz: Thermodynamic Insights into the Interactions of Metal-Chelating Polymers with Rare Earth Elements in Solution		8600, A-103 (Iran Thomas Auditorium)
10:40AM-11:00AM	Kirill Efimenko: Establishing Design Rules for Catalytically Active Hydrogels: A "Capture, Degrade, and Release" Platform for Organophosphates		8600, A-103 (Iran Thomas Auditorium)



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Day 3 (10/14/2026)			
11:00AM-11:30AM	Volker Urrban: Final remarks from the organizers/Adjourn		8600, A-103 (Iran Thomas Auditorium)

Poster presentations:

Day 1 (10/12/2026)

Presenter	Time	Poster Title
Jihye Choi	5:25-7:05 PM	Harnessing Transient and Self-healable Adhesion in Pressure-Sensitive Adhesives
Tianyu Zhu	5:25-7:05 PM	Counterion Engineering of Polybenzimidazole Electrolytes for Durable High-Temperature PEM Fuel Cells
K M Nazmus Sakib	5:25-7:05 PM	Nanostructural heterogeneity in starch granule revealed by microfocused simultaneous small-angle / wide-angle X-ray scattering study
Rahul Kumar	5:25-7:05 PM	Graph-Theoretic Analysis of Star Copolymer Self-Assembly
Qixuan Xiang	5:25-7:05 PM	Image-Guided Predictive Optimization of Multimaterial Direct Ink Writing for High-Fidelity Lamellar Architectures
Isaiah Dishner	5:25-7:05 PM	Making and breaking sequence controlled copolyamides with enzymes
Zhefei Yang	5:25-7:05 PM	Reprogrammable Polymer Brush Interfaces Enabled by Reversible Amine–N-Oxide Conversion
Juan Jose Sandino Trejos	5:25-7:05 PM	Development of Polyaniline Derivatives with Improved Electrochemical Stability and Processability
Anusree Puthiyarakkal	5:25-7:05 PM	Modulation of Structure, Assembly, and Degradation in Polyester-Based Nanomaterials through Aryl-Substituted Caprolactone Design

Day 2 (10/13/2026)

Presenter	Time	Poster Title
Hayden Moran	5:00-7:00 PM	Data- and Theory-Driven Framework for the Physically Insightful Analysis and Interpretation of Organic Macromolecular Spectroscopy
Xiao Sun	5:00-7:00 PM	Multifunctional Fiber Systems for Next-Generation Energy Storage, Electronics, and Sensing
Chathurika J. Kosgallana	5:00-7:00 PM	Molecular Organization of Carbonic Anhydrase at a Chitosan Interface: Insights from Molecular Dynamics Simulations
Shucong Li	5:00-7:00 PM	Air-permeable hydrogels through viscoelastic phase separation of aerogels
Jamie Hemstock	5:00-7:00 PM	Controlling Reversible Carbamate Exchange for High-Purity Polyether Polyol Recovery during Polyurethane Foam Glycolysis
Sivakumar Irla	5:00-7:00 PM	Liquid Crystal Elastomers with Covalently Incorporated Ionic Segments for Multifunctional Electromechanical Applications
Walimuni Dewage Thushni Sadana Wickramarathna	5:00-7:00 PM	Synthesis and Characterization of DMDPP-Based Vinyl Flanked Conjugated Polymers for Conductive Materials Applications
Kyoungmin Kim	5:00-7:00 PM	Selective Ion Transport in Precision Polyanion Membranes
Hayden Moran	5:00-7:00 PM	Data- and Theory-Driven Framework for the Physically Insightful Analysis and Interpretation of Organic Macromolecular Spectroscopy