

CHEMICAL ENGINEERING DEPARTMENT
10.992 Student Seminar Series
SPRING 2025

All Student Seminars are MIT ONLY events and will be held in-person in room 66-110 unless otherwise noted.

| | | |
|--|--------------------------|--|
| | | |
| MONDAY, February 10th | | |
| 3:00 pm | Erin Sturd | “Investigating the Energetics of Condensable Gas Transport of Poly(arylene ether) Copolymer Membranes” |
| 3:30 pm | Shelbe Johnson | “Discovery of Broadly Neutralizing Influenza Antibodies using High-Throughput Technology” |
| | | |
| TUESDAY, February 18th | | |
| 3:00 pm | Nicholas King | “Richer Descriptions of Viscoelastic Nonlinearity in Time-Varying Flows” |
| 3:30 pm | Melissa Manetsch | “Quantifying and Tuning Local Electric Fields in Confined Catalytic Systems” |
| | | |
| MONDAY, March 3rd | | |
| 3:00 pm | Katelyn Groenhout | “Development of Catalytic Condensers with Interfaces Engineered for Charge Modulation” |
| 3:30pm | Gene Lee | “High-Throughput Discovery of Autoreactive T-cells Receptors in Membranous Nephropathy” |
| | | |
| MONDAY, March 10th | | |
| 3:00 pm | Daniela Cavazos Elizondo | “Engineering Binding Proteins for Detection of Whole-cell <i>Listeria Monocytogenes</i> ” |
| 3:30 pm | Chan Gi Kim | “Capacitive Ionic Separations for Critical Element Recovery” |
| | | |
| MONDAY, March 17th | | |
| 3:00 pm | Nishat Tabassum | “Engineered Scaffold Proteins for the Treatment of Inflammatory Autoimmune Disorders” |
| | | |
| MONDAY, March 31st | | |
| 3:00 pm | Bob Zhang | “Multiple Volume Redistribution Mechanisms in the Directed Self-Assembly of Block Copolymers and Their Effect on Morphology Orientation” |
| 3:30 pm | Siqi Wu | “Towards the Rational Design of Phospho-Olivine Cathode Materials for High-Rate Applications” |
| | | |

| | | |
|--------------------------------------|-----------------|---|
| | | |
| MONDAY, April 7th | | |
| 3:00 pm | Sunwoo Lee | “Functional Screening of Single Cell-Derived Complement-Activating Antibodies for Discovery of Therapeutic Monoclonal Antibodies” |
| 3:30 pm | Xiaoqi Sun | “Quantitative Reaction Condition Prediction for Organic Synthesis” |
| | | |
| MONDAY, April 28th | | |
| 3:00 pm | Anish Sukumar | “Toward Selective Iron Electrowinning from Industrial Waste Streams” |
| 3:30 pm | Arjun Yennemadi | “Uncovering Electrolyte Transport Mechanisms in Charged MXene Membranes via Continuum Modeling” |
| | | |
| MONDAY, May 5th | | |
| 3:00 pm | Junyong Mo | “Design Principles and Applications of Electrically-Conductive Inorganic and Molecular Materials” |