

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 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”
4:00 pm	Arjun Yennemadi	“Uncovering Electrolyte Transport Mechanisms in Charged MXene Membranes via Continuum Modeling”

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	Nishat Tabassum	“Engineered Scaffold Proteins for the Treatment of Inflammatory Autoimmune Disorders”
MONDAY, May 5th		
3:00 pm	Junyong Mo	“Design Principles and Applications of Electrically-Conductive Inorganic and Molecular Materials”