

Membrane Science, Engineering and Technology Center
Research Project Presentation Schedule: Monday, November 5, 2018
University of Colorado

Active Projects: 15-minute oral reports for current research project will be presented in the following order, allowing 5 minutes for discussion and questions after the presentation and an additional 5 minutes for the IAB representatives to fill out the feedback forms; final presentations are 20-minutes long with questions postponed until the evening poster session.

Session Chair: TBD

8:00 am

8. New Real-Time Methodology for Detection of Fouling in Gas Separation Membranes **Project #15-4**

Faculty:	Victor Bright	CU Mechanical Engineering
	Juliet Gopinath	CU Electrical Engineering
	Alan Greenberg	CU Mechanical Engineering
Post Doc:	Mo Zohrabi	CU Electrical Engineering
Graduate Student:	Omkar Supekar	CU Mechanical Engineering
	Danielle Park	CU Mechanical Engineering

8:25 am

9. Selective Separation of Industrial Relevant Metal Ions From High TDS Water using Water-Enhanced Electrodeionization **Project #17-4**

Faculty:	Jamie Hestekin	UA Chemical Engineering
Graduate Student:	Humeyra Ulusoy-Erol	UA Chemical Engineering

8:50 am

10. Nanopore Tuning in Lyotropic Liquid Crystal Membrane Materials for Optimized Vapor Transport and Selective Rejection of CWA Stimulants of Interest to DTRA **Project #16-3**

Faculty:	Rich Noble	CU Chemical Engineering
	Doug Gin	CU Chemistry
Graduate Student:	Greg Dwulet	CU Chemical Engineering

9:15 am

11. Graphene Oxide (GO) Membrane-Based Breathable Fabric **Project 16-2**

Faculty:	Kamalesh Sirkar	NJIT Chemical Engineering
	Zafar Iqbal	NJIT Chemistry & Env. Science
Post-Doctoral Researcher:	John Chau	NJIT Chemical Engineering
Graduate Student:	Cheng Peng	NJIT Mat. Sci. & Eng.

Coffee Break (9:40 – 10:00 am)

Note: Information presented from these projects is considered to be proprietary in nature, and the terms of center membership apply.

Session Chair: Boris Khusid

10:00 am

12. Coupled UV-Membrane and Oxidant-Membrane Process for Decreased Biofouling and Enhanced Flux in Water Reclamation Applications Project #17-1

Faculty: Karl Linden CU Civil Engineering
Graduate Students: Joanna Murphy CU Civil Engineering

10:25 am

13. Robustness and Plugging of Virus Filters Project #16-5

Faculty: Ranil Wickramasinghe UA Chemical Engineering
Xianghong Qian UA Biomedical Engineering
Graduate Student: Da Zhang UA Chemical Engineering

10:50 am

14. Development and Characterization of Composite Membranes For Use in Countercurrent Solvent Extraction Project #17-3

Faculty: Kamalesh Sirkar NJIT Chemical Engineering
Post Doc: John Chau NJIT Chemical Engineering
Graduate Student: Lydia Rodrigues NJIT Chemical Engineering

11:15 am

15. Membrane-based Removal of Ammonia from Waste Stream and its Recovery Project #16-1

Faculty: Kamalesh Sirkar NJIT Chemical Engineering
Post-Doc: John Chau NJIT Chemical Engineering
Graduate Student: Philip Aligwe NJIT Chemical Engineering

11:40 am

16. Imaging and Quantifying Chemically Modified Polymer Membrane Properties at Nanoscale Project #15-3

Faculty: Wen Zhang NJIT Civil & Environmental Engr.
Somenath Mitra NJIT Chemistry & Env. Science
Graduate Student: Wanyi Fu NJIT Civil & Environmental Engr.
Samar Azizighannad NJIT Materials Engineering

12:05 pm

17. Assessment of Virus Clearance for Biopharmaceutical Manufacture Project #15-6 FINAL

Faculty: Ranil Wickramasinghe UA Chemical Engineering
Xianghong Qian UA Biomedical Engineering
Graduate Student: Namila UA Biomedical Engineering

Lunch (12:30 – 1:30 pm)

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Session Chair: TBD

1:30 pm

18. Modeling Tools for Membrane Process

Project #17-5

Faculty:	David Ford	UA Chemical Engineering
	Xianghong Qian	UA Biomedical Engineering
	Paul Millett	UA Mechanical Engineering
Graduate Student:	Rosario Cervellere	UA Mechanical Engineering

1:55 pm

19. Adsorptive and Destructive Mixed Matrix Membranes for CB Protection

Project #15-1

Faculty:	Kamalesh Sirkar	NJIT Chemical Engineering
	Boris Khusid	NJIT Chemical Engineering
Post-Doctoral Researcher:	John Chau	NJIT Chemical Engineering
Graduate Student:	Yufeng Song	NJIT Chemical Engineering

2:20 pm

20. Forward Osmosis for Water Treatment and Recovery

Project 16-4 FINAL

Faculty:	Ranil Wickramasinghe	UA Chemical Engineering
Graduate Student:	Yu-Hsuan Chiao	UA Chemical Engineering

Coffee Break (2:45-3:00 pm)

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