## JAMES R. FAIR PROCESS SCIENCE & TECHNOLOGY CENTER

## University of Texas at Austin PSTC Spring Meeting, April 3-4, 2018

## Tuesday, April 3, 2018 PRC Commons, Room 1.138

	<b>U</b> / <b>I</b> /	
8:30 am	Welcome and Introduction	Bruce Eldridge
	SRP Pilot Plant Update	Frank Seibert
	SRP Databases and Computer Programs	Frank Seibert
9:15 am	Break	
9:30 am		
>100 till	Introduction	Bruce Eldridge
	Pilot Plant Analysis, Experiments, and Control for the Hybridization of Transient Solar Heat with Conventional Utilities	Scott Rowes
	Kinetics and Phase Equilibria of a Reactive Dividing Wall Column	Jeff Weinfeld
	Controlling a Dividing Wall Distillation Column	Melissa Donahue
	Computational Fluid Dynamics (CFD) Modeling of Simplified Structured Packing Geometries	Mikey Phan
	Mass Transfer in Structured Packing via Computational Fluid Dynamics	Luke Macfarlan
11:45 am	n Catered Lunch, Room 1.210	
12:30 pm		Benny Freeman
	Overview of Research Activities Related to Membrane Separations	Josh Moon
	Gas Transport Properties of Polybenzimidazoles	Melanie Merrick
	Gas Separation Properties of Graphene Oxide-Based Membranes	Heewook Yoon
	Olefin/Paraffin Separation with Membranes	Constanza Miguel Sanchez
	Resource Recovery (e.g., Lithium from Produced Water)	Alysha Helenic T. J. Dilenschneider
	Surface Modification of Membranes to Improve Fouling Resistance	Alon Kirschner
3:00 pm	Break	
3:15 pm		Michael Baldea
	A systematic framework for the evaluation of the monetary value of process control for predominantly transient processes	Joseph Costandy
	Demand Response Operation of Air Separation Units Utilizing an Efficient MILP Modeling Framework	Morgan T. Kelley
4:00 pm		
	Introduction to the Carbon Management Project	Gary Rochelle
	Corrosion in Amine Scrubbing	Kent Fischer
	Modeling Amine Aerosol	Yue Zhang

## Wednesday, April 4, 2018 PRC Commons, Room 1.138

8:30 am

Brief Overview of Adsorption Process and Adsorbent Materials Research at USC **James A. Ritter**More In-Depth Review of Several Ongoing PSA and TSA Projects James A. Ritter

9:30 am TBA Mahmoud El-Halwagi

11:00 am Adjourn