

JAMES R. FAIR PROCESS SCIENCE & TECHNOLOGY CENTER
University of Texas at Austin
PSTC Fall Meeting

Wednesday, November 9, 2022

8:30 am	Ritter Group
Brief Overview of Adsorption Process and Adsorbent Materials Research at USC	Armin D. Ebner
The Use of a New Kinetic Model in a Cyclic Adsorption Process Simulator for Kinetically Limited Gas Separations	Sulaimon A. Adegunju
Development of an Expanded PTFE Structured Adsorbent Containing Activated Carbon	Ryan T. Sanders
9:45 am Break	
10:00 am	Eldridge Group
PSTC / SRP Status and EPIX DOE proposal summary CFD Research Program Overview	Bruce Eldridge
11:00 am	Baldea Group
Simultaneous process and solvent design for carbon capture using ionic liquids	Kyeongjun (Jun) Seo
Optimizing PZAS"	Jorge Martorell
12:00 pm Lunch Break	
12:45 pm	Seibert Group
SRP Update	Frank Seibert
Application of Air/Aqueous Derived Structured and Random Packing Mass Transfer Models to Distillation	Frank Seibert
Oil Recovery from Produced Water via Selective Oil Permeation	Carolyn Cooper
2:00 pm Break	
2:15 pm	Freeman Group
Overview of Research Group Projects	Benny Freeman
Lithium Recovery Using Selective Cation Exchange Membranes in Bipolar Electrodialysis	Aubrey Quigley
Fabrication of Robust, Isoporous Membranes for Ultrafiltration using an ABAC Tetrablock Polymer	Noah Wamble

Impact of Ion-Ion Correlated Motion on Salt Transport in Solvated Ion Exchange Membranes

Nico Marioni

Hydrogen Sulfide and Acetylene Tolerance of Hydrogen-stable Ag^+ -based Facilitated Transport Membranes

Matt Davenport

Gas Transport Properties of Poly(benzimidazole) for High Temperature H_2 Separations

Julian Richardson

3:45 pm

Rochelle Group

The end times

Gary Rochelle

SRP pilot plant results with PZAS

Fred Closmann

Review of packing data, effect of liquid flux

Miguel Abreu

5:00 Adjourn