

# 2024 CISTAR BIENNIAL MEETING

# AGENDA

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## OCTOBER 9 - OCTOBER 11, 2024

University of New Mexico, Albuquerque, NM

All times listed are MT

[Zoom Link for Virtual Participants](#)

### WEDNESDAY, OCTOBER 9, 2024

<i>CISTAR Fellows</i>	
12:45 PM - 2:00 PM	<b>Registration for Fellows with Snacks</b> <i>UNM South Campus MTTTC Auditorium, 800 Bradbury Dr. SE, Albuquerque, NM 87106</i> <i>(Park in the structure on the SW Corner of Basehart and Bradbury. Enter code 1935525 into kiosk and your license number)</i>
2:00 PM - 2:30 PM	<b>Energy Entrepreneurs: Dr. Matt Davenport's Journey from a CISTAR Fellow to NEXSEP</b> <i>Dr. Matt Davenport, CISTAR Post Doc, founder of NEXSEP (20 mins. + 10 mins. Q&amp;A)</i>
2:30 PM	<i>Meet at the parking structure to carpool to the museum</i>
3:00 PM - 4:30 PM	<b>National Museum of Nuclear Science &amp; History Tour</b> <i>601 Eubank Blvd SE, Albuquerque, NM 87123</i>
5:30 PM - 6:00 PM	<b>Fellows Meet and Greet with New Fellows</b> <i>Patio, El Pinto Restaurant, 10500 4th St. NW, Albuquerque, NM 87114</i>
<i>CISTAR Faculty, Fellows, Industry, EWD/DCI/EDAB</i>	
6:00 PM - 9:00 PM	<b>Welcome Dinner at El Pinto Restaurant</b> <i>10500 4th St. NW, Albuquerque, NM 87114</i>

### THURSDAY, OCTOBER 10, 2024

<i>CISTAR Faculty, Fellows, Industry, EWD/DCI/EDAB</i>	
8:30 AM - 9:00 AM	<b>Registration, Coffee, and Pastries</b> PAIS Lobby
9:00 AM - 9:15 AM	<b>Welcome and Introduction</b> <i>Donna Riley, Jim and Ellen King Dean of Engineering and Computing, UNM (15 min.)</i> PAIS Colloquium 1100
9:15 AM - 9:45 AM	<b>CISTAR Overview</b> <i>Fabio Ribeiro, CISTAR Center Director (20 min. + 10 min. Q&amp;A)</i> PAIS Colloquium 1100
9:45 AM - 10:45 AM	<b>Keynote Presentation: "Shaping a Sustainable Future"</b> <i>Amanda Hickman, Honeywell ESS Research Leader (50 min. + 10 min. Q&amp;A)</i> PAIS Colloquium 1100
10:45 AM - 11:00 AM	<b>Break</b> PAIS Lobby
11:00 AM - 12:30 PM	<i>Parallel Session 1: CISTAR Faculty, Fellows, Industry</i> PAIS Colloquium 1100 <b>Research Presentations</b>
11:00 AM - 11:30 AM	<b>Towards Electrification of Chemical Processes</b> Rakesh Agrawal (20 min. + 10 min. Q&A)
11:30 AM - 12:00 PM	<b>Stable Polymeric Facilitated Transport Membranes for Olefin/Paraffin Separations</b> Joan Brennecke (20 min. + 10 min. Q&A)
12:00 PM - 12:30 PM	<b>Stable and Selective Zeolite Catalysts for Olefin Oligomerization</b> Raj Gounder (20 min. + 10 min. Q&A)
<i>Parallel Session 2: EWD/DCI/EDAB Working Session</i> 11:00 AM - 12:30 PM PAIS 2210	

<i>CISTAR Faculty, Fellows, Industry, EWD/DCI/EDAB</i>		
12:30 PM - 1:30 PM	Lunch	PAIS Lobby
1:30 PM - 3:30 PM	Poster Pitch Session	PAIS Colloquium 1100
3:30 PM - 5:30 PM	Poster Session with Refreshments	PAIS 2nd floor
	3:30 PM - 4:30 PM	Group 1 Posters
	4:30 PM - 5:30 PM	Group 2 Posters
		<i>Parallel Session: EWD/DCI/EDAB</i> 4:30 PM - 5:30 PM PAIS 2210
<i>CISTAR Faculty, Fellows, Industry, EWD/DCI/EDAB</i>		
5:30 PM - 5:40 PM	2024 Biannual Meeting Attendees Photo	PAIS Lobby
<i>CISTAR Faculty, EWD/DCI/EDAB</i>		
5:40 PM - 6:00 PM	Break	
<i>Fellows, Industry</i>		
5:45 PM - 6:30 PM	Industry and Fellows Networking Session	PAIS Living Room 1150
<i>CISTAR Faculty, EWD/DCI/EDAB (Fellows and Industry to Join After Networking Session)</i>		
6:00 PM - 8:30 PM	Dinner	Student Union Building (SUB), Ballroom C
	6:00 PM - 6:45 PM	Reception Open
	6:45 PM - 7:30 PM	Dinner Served
	7:30 PM - 8:15 PM	Keynote Presentation: Rebecca Ullrich, Sandia National Lab
	8:15 PM - 8:30 PM	Mentor Awards & Recognitions

## FRIDAY, OCTOBER 11, 2024

<i>CISTAR Faculty, Fellows, Industry, EWD/DCI/EDAB</i>		
8:30 AM - 8:45 AM	Poster Pitch Awards, Coffee and Pastries	PAIS Lobby
8:45 AM - 10:40 AM	<i>Parallel Session 1: CISTAR Faculty, Fellows, Industry</i>	<i>Parallel Session 2: EWD/DCI/EDAB</i>
8:45 AM - 9:05 AM	High-Performance Doped Barium Niobate Catalyst for Efficient Oxidative Coupling of Methane Kannan Ramaiya (15 min. + 5 min. Q&A)	<i>Working Session</i> 8:45 AM - 11:40 AM PAIS 2210
9:05 AM - 9:25 AM	Ethane Dehydrogenation in Solid Oxide Electrochemical Cell Brian Tackett (15 min. + 5 min. Q&A)	
9:25 AM - 9:45 AM	Optimization Methods for Electrification of Chemical Processes and Supply Chain Can Li (15 min. + 5 min. Q&A)	
9:45 AM - 10:00 AM	Break	
10:00 AM - 10:20 AM	Systems Level Analysis of Electrochemical CO <sub>2</sub> Reduction Joaquin Resasco (15 min. + 5 min. Q&A)	
10:20 AM - 10:40 AM	Advanced Optimization Methods and Hardware for Process Systems and Chemical Engineering David Bernal (15 min. + 5 min. Q&A)	
	<i>Parallel Session 1: CISTAR Faculty, Fellows</i>	<i>Parallel Session 2: Industry</i>
10:40 AM - 11:40 AM	Thrust Meetings: Meeting rooms will be posted at the meeting	IAB Meeting, PAIS 1100
<i>CISTAR Faculty, Fellows, Industry, EWD/DCI/EDAB</i>		
11:40 AM	Adjourn and Boxed Lunches	