



Industrial Processes Emissions Reduction (IPER) Technology Workshop – Agenda

All times in CDT

Time	Wednesday, March 1, 2023 (Day 1)
7:30 AM	Breakfast/Registration
8:00 AM	Welcome to the IPER Workshop/Welcome to SwRI – Tim Allison , SwRI; Adam Hamilton , SwRI
8:15 AM	DOE Keynote Speaker – Avi Shultz , IEDO: Overview of DOE Research, Development, and Demonstration of Industrial Efficiency & Decarbonization Technologies
8:45 AM	Technical Presentation – Ignasi Palou-Rivera , RAPID: Beyond Heating: Process Electrification Priorities to Decarbonize the Process Industries
9:15 AM	Technical Presentation – Isa Mbaraka , Dow: Decarbonize and Grow; Dow’s Path to Carbon Neutrality
9:45 AM	Break
10:00 AM	Technical Presentation – Tim Allison / Michael Hartmann , SwRI: CO ₂ -Based Systems for Industrial Heat and Power/Chemical Engineering Strategies and Advancements in Industrial Decarbonization
10:30 AM	Panel Session I – Industrial Strategy (Panel Leads: Tim Allison , SwRI/ Karl Wygant , Elliott) <ul style="list-style-type: none">• David Dankworth, ExxonMobil• Mike Huckman, Sabic• Stanleigh Cross, Chevron• Moussa Kane, TotalEnergies• Chendhil Periasamy, Air Liquide
11:45 AM	Lunch
12:30 PM	Technical Presentation – Dan Stack , Electrified Thermal Systems: Electrified Thermal Solutions – Decarbonizing Industry with Renewable Heat
1:00 PM	Technical Presentation – David Ransom , Siemens: Turbomachinery Development for Electrification of Industrial Process Heating
1:30 PM	Technical Presentation – Colin Duncan , Hanwha Power Systems Americas: Industrial Waste Heat Recovery
2:00 PM	Break
2:15 PM	Tech Update <ul style="list-style-type: none">• Erik Spoerke, Sandia• Dongxia Liu, University of Delaware• Nathaniel Schroeder, Sandia• Mahdi Malmail, Texas Tech• Justin Lapp, University of Maine• John O’Donnell, Rondo Energy, Inc.• Dante Simonetti, UCLA• Justin Briggs, Antora• Alex Wong, Twelve
4:00 PM	Open Forum Eloy Flores , SwRI
5:00 PM	Eloy Flores , SwRI: Day 1 Closing



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Time	Thursday, March 2, 2023 (Day 2)
7:30 AM	Breakfast
8:00 AM	Welcome to the IPER Workshop Day 2 – Tim Allison , SwRI
8:15 AM	DOE Keynote Speaker – Ronald Munson , DOE: Overview of CCS FEED Studies for Industry
8:45 AM	Technical Presentation – Mauricio Ramirez , MAN ES: A Treatise on CO ₂ Compression
9:15 AM	Panel Session II – DOE (Panel Leads: Ronald Munson , Jack Lewnard DOE) <ul style="list-style-type: none">• Matt Bauer, Solar Energy Technologies Office• Doug Wicks, ARPA-E• David Henderson, Office of Nuclear Energy• Tomas Green, Hydrogen and Fuel Cells Technology Office
10:15 AM	Break
10:30 AM	Technical Presentation – Damian Beauchamp , 8 Rivers: Clean Reliable Heat via sCO ₂ Oxy-combustion and its applications
11:00 AM	Technical Presentation – Chiraag Gokaldas , Ultra Safe Nuclear: USNC MMR: Small Reactor, Big Potential
11:30 AM	Technical Presentation – Brian Hunt , GE: 24/7 Clean Power for Industrial Applications and Sustainable Fuels
12:00 PM	Closing Remarks – Tim Allison , SwRI
12:30 PM	Optional SwRI Facility Tour (Lunch provided for SwRI Tour Attendees only) <ul style="list-style-type: none">• Turbomachinery Research Facility• Power Cycle and Energy Systems Laboratory• Chemical Engineering Facility
3:30 PM	End of SwRI Tour



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