

Hydrogen Symposium

April 7-8, 2025

Colorado School of Mines, Golden, CO

Monday, April 7: 11:15am – 5:00pm (MT), Ben H. Parker Student Center, Grand Ballrooms

Time	Topic	Presenters
11:15am	Registration Opens	
11:30am	Lunch Buffet Open	
11:45am	Welcome	Dr. Paul C. Johnson , President, Colorado School of Mines Dr. John Bradford , Vice President for Global Initiatives, Colorado School of Mines
11:55am	Plenary Speaker	Dr. Douglas Wicks , Geologic Hydrogen Enthusiast <i>“Hydrogen ‘Flux’ is a word that comes to mind”</i>
11:55am	Session 1: Geologic Hydrogen	Plenary Speaker: Dr. Douglas Wicks , Geologic Hydrogen Enthusiast <i>“Geologic Hydrogen (GeoH₂) A new primary energy source”</i> Research Highlight: Dr. Yaoguo Li , Professor, Geophysics, Colorado School of Mines <i>“Geophysics in Geologic Hydrogen Exploration: Research Highlights”</i>

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Time	Topic	Presenters
	Session 1: Geologic Hydrogen (continued)	Panel Discussion: <i>Moderator- Dr. John Bradford</i> , VP for Global Initiatives, Colorado School of Mines Panelists: Dr. Travis McLing , Directorate Fellow and Chief Geologist Critical and Strategic Minerals, Idaho National Laboratory <i>“Promise and Challenges of Geologic Hydrogen”</i> Zainub Noor , Director, Scouting and Innovation, Halliburton Labs <i>“Hidden Hydrogen”</i> Dr. Douglas Wicks , Geologic Hydrogen Enthusiast <i>“Geologic Hydrogen (GeoH₂) A new primary energy source”</i> Dr. Mengli Zhang , Research Assistant Professor, Geophysics, Colorado School of Mines <i>“Geophysics in Geologic Hydrogen”</i>
1:40pm	Session 2: Storage & Transportation	Keynote Speaker: Dr. Chris San Marchi , Distinguished Member of the Technical Staff, Sandia National Laboratories <i>“Hydrogen-assisted fatigue and fracture of structural steels for hydrogen storage and transportation”</i>

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Time	Topic	Presenters
	Session 2: Storage & Transportation (continued)	Research Highlights: Dr. Parisa Bazazi , Assistant Professor, Petroleum Engineering, Colorado School of Mines Dr. Lawrence Cho , Assistant Professor, Metallurgical and Materials Engineering Panel Discussion <i>Moderator- Dr. Lawrence Cho</i> , Assistant Professor, Metallurgical and Materials Engineering Panelists: Dr. Ken Lee , Principal Engineer, DNV Dr. Zack Buck , Research Physicist, NIST Dr. Dongchun (Mary) Qiao , Principal Engineer, ABS <i>“Materials for Hydrogen Storage and Transportation Marine and Offshore Sector”</i> Dr. Chris San Marchi , Distinguished Member of the Technical Staff, Sandia National Laboratories
3:05pm	Session 3: Utilization	Keynote Speaker: Dr. Aleš Srna , Principal Member of Technical Staff, Combustor Research Facility, Sandia National Laboratories <i>“Overview of Hydrogen Internal Combustion Engine (H2ICE) Technologies”</i>

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	Session 3: Utilization (continued)	<p>Research Highlights:</p> <p>Dr Colin Wolden, William K. Coors Distinguished Chair and Professor, Chemical and Biological Engineering, Colorado School of Mines</p> <p>Panel Discussion</p> <p><i>Moderator</i>-Dr. Rajavasanth Rajasegar, Assistant Professor, Mechanical Engineering, Colorado School of Mines</p> <p>Panelists:</p> <p>Dr. Robert Dibble, Professor, Mechanical Engineering, University of California, Berkeley</p> <p>Dr. Aleš Srna, Principal Member of Technical Staff, Combustor Research Facility, Sandia National Laboratories</p> <p>Dr Colin Wolden, William K. Coors Distinguished Chair and Professor, Chemical and Biological Engineering, Colorado School of Mines</p>

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4:30pm		Keynote Speaker: Allen (Al) Toweill , Hydrogen Delivery Manager, Innovation, Chevron Technical Center <i>"Hydrogen Safely accelerating lower carbon solutions"</i>

Networking Reception: 5:00 – 7:00pm (MT), Atrium, CoorsTek Center for Applied Science and Engineering

Reception Guest Speaker: **Dr. Robert Dibble**, Professor, Mechanical Engineering, University of California, Berkeley
The Long-Awaited Hydrogen-Fueled Engine with Greater Efficiency Than Fuel Cells May Debut at the End of the World

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Tuesday, April 8: 8:30 – 11:00am (MT), Ben H. Parker Student Center, Grand Ballrooms

Time	Topic	Presenters
8:30am	Breakfast	
8:55	Welcome	Dr. Walter Copan , Vice President for Research and Technology Transfer, Colorado School of Mines
9:00am	Keynote Speaker	Brian DeBruine , Director and Founder, Colorado Hydrogen Network <i>“The Hydrogen Ecosystem in Colorado”</i>
9:20am	Session 4: Electrolyzers and Fuel Cells	Keynote speaker: Dr. Bryan Pivovar , Senior Research Fellow, NREL <i>“NREL’s Electrolysis Efforts”</i> Research Highlights: Dr. Robert Braun , Distinguished Professor, Mechanical Engineering, Colorado School of Mines Panel Discussion <i>Moderator: Dr. Neal Sullivan</i> , Professor, Mechanical Engineering and Director, Colorado Fuel Cell Center, Colorado School of Mines <i>Panelists:</i> Dr. Bryan Blackburn , Vice President of Electrochemical Module Development, Utility Global <i>“Decarbonizing Mobility, Steel and other Hard-to-Abate Sectors”</i> Dr. Robert Braun , Distinguished Professor, Mechanical Engineering, Colorado School of Mines Dr. Bryan Pivovar , Senior Research Fellow, NREL

Symposium concludes at 11:00am