• An Overview of HydroGEN, a DOE Energy Materials Network, Aimed at Accelerating the R&D of Advanced Water Splitting Materials (AWSM) - Huyen Dinh, NREL

• Electrolyzers Enabling Renewable Energy - Manish Mohanpurkar, Idaho National Laboratory
  ➢ This presentation examines the collocation of electrolyzers with renewable energy sources as test cases.

  ➢ FuelCell Energy is developing a highly-efficient and low-cost modular system for hydrogen production based on the companies’ state of the art Solid Oxide Electrolysis (SOEC) and stack technology.

• Creating a Global Hydrogen Infrastructure from Waste Materials - Dan Madden, Eco Energy International
  ➢ Eco Energy International has developed a new technology that economically converts over 80% of the MSW going to landfills into hydrogen and syngas.

• 96.8% Energy Saving with Nano Pulsed DCElectrolysis over ConventionalElectrolysis for Use in On Board IC Engine Hydrogen Fuel Additive Production and Centralized Hydrogen Production - Kevin Reed, HST- Hydricity Superconductor Transport
  ➢ This presentation will show value of Nano Pulsed DC Electrolysis of seawater for Centralized Hydrogen Production at 96.8% energy saving over conventional electrolysis.

• Operation of a Solar Hydrogen Production Cum Dispensing Facility and Demonstration of Hydrogen - Diesel Dual Fuel Vehicles at National Institute of Solar Energy, Gwal Pahari, Gurugram, Haryana (India) - Shweta Soam, National Institute of Solar Energy
  ➢ Discussion about a facility for production of hydrogen using solar energy at the National Institute of Solar Energy (NISE) in India.

• Synthesis of Au@TiO2 Hollow Core-shell / g-C3N4 Composites for Photocatalytic H2 Evolution - Gautam Kumar Naik, Chonbuk National University
  ➢ Research has been made to overcome TiO2’s high band energy gap by shape modification and composite formation with other suitable semiconductor and noble metals.