ACTIVITIES SUPPORTING FUEL CELL COMMERCIALIZATION
WEDNESDAY, NOVEMBER 8 - ROOM 103 A, 3:45 PM - 5:45 PM

  ➢ This presentation will provide an overview of the FCTO program present and future priorities and status as well as technical highlights, including recent power density improvements and the resulting significant reduction in projected high-volume cost.

- PEM and Alkaline Electrolyzers Bottom-up Manufacturing Cost Analysis - Yong Yang, Austin Power Engineering LLC
  ➢ A bottom-up manufacturing cost analysis was conducted for a MW PEM and a MW alkaline electrolyzer at the high production volume.

- Manufacturing Competitiveness Analysis for PEM and Alkaline Water Electrolysis Systems - Mark Ruth, National Renewable Energy Laboratory
  ➢ To examine the factors that drive regional competitiveness in the manufacturing of water electrolysis systems, bottom-up manufacturing costs and detailed supply chain maps for international trade flows were developed and analyzed.

- Availability and Cost of Platinum and Other Platinum Group Metals That are Core to PEM Fuel Cells – David Jollie, Anglo American
  ➢ Platinum and some of the other platinum group metals play a key role in catalyzing the various reactions that take place in a proton exchange membrane fuel cell. Given the concentrated nature of most geological reserves of these metals, the availability and cost of platinum and its sister metals are twin concerns for an industry seeking to move into full commercialization. This presentation focuses on how why these metals are used, how much could be used and on the likely outlook for their supply from the perspective of a platinum group metal miner.

- “AutoStack Industrie” – Paving the Way Towards Mass Produced Affordable Automotive Fuel Cell Stacks - Andre Martin, Andre Martin Consulting
  ➢ The AutoStack Industrie project is a joint initiative of the German automotive and supply industry to establish the technical and technological prerequisites for commercial FCEV launches past 2020.