MANUFACTURING CHALLENGES & SOLUTIONS
WEDNESDAY, NOVEMBER 8 - ROOM 103 A, 1:15 PM - 3:15 PM

- **Meeting Cost and Manufacturing Expectations for Automotive Fuel Cell Bipolar Plates** - Jennie Huya-Kouadio, Strategic Analysis Inc.
  - A comparison of metallic, composite, and expanded graphite bipolar plates for PEM fuels with suggested pathways to lower cost for each bipolar plate fabrication approach.

- **Development of Manufacturing Techniques for the Flexi-Planar Fuel Cell** - Jon Morgado, University College London
  - Initial results of a computer based manufacturing simulation showing the cost of manufacture for the latest Flexi-Planar module design at lab scale, and anticipation of the cost of manufacture of the module in high volume production.

- **Challenges and Solutions in the R2R Manufacturing of the Fuel Cell Membrane Electrode Assembly** - Thomas Kolbusch, Coatema Coating Machinery GmbH
  - Education on new trends in manufacturing MEA’s for fuel cell stacks. Focus on coating, drying and related processes in R&D and production environment.

- **Precision Coating Deposition Techniques for Fuel Cell Development and Manufacturing** - Stuart Erickson, Ultrasonic Systems, Inc.
  - This presentation considers a particular advancement in precision application of fuel cell coating using the Ultra-Spray technology, precision liquid delivery system and precision X-Y-Z-Ø motion control platform.