

**Agenda**  
**High Temperature Membrane Working Group Meeting**  
**Thursday, September 14, 2006**  
**Monterey Room, Palace Hotel**

<b>1 pm</b>	<b>Welcome</b>	<b>Nancy Garland</b>
<b>1:15 pm</b>	<b>Discussion overview</b>	<b>James Fenton</b>
<b>1:30 pm</b>	<b>Performance and Durability Overview</b>	<b>Tom Greszler, GM</b>
<b>2:00 pm</b>	<b>Measurement techniques</b>	<b>Courtney Mittelsteadt, Giner</b>
<b>2:30 pm</b>	<b>In-plane conductivity</b>	<b>Tim Bekkedahl, BekkTech</b>
<b>2:45 pm</b>	<b>Through-plane conductivity</b>	<b>Kevin Cooper, Scribner</b>
<b>3:00 pm</b>	<b>Temperature and RH targets</b>	<b>Vishal Mittal, UCF/FSEC</b>
<b>3:15 pm</b>	<b>Open discussion</b>	
<b>4:00 pm</b>	<b>Adjourn</b>	

# Approval of 5/19/06 Minutes

- Year two, Q3, conductivity of 0.07 S/cm @ 80% RH at rt using alternate materials (not Nafion<sup>®</sup>) will be demonstrated.
- Year three, Q3, conductivity of >0.1 S/cm at 50% RH at 120 °C will be demonstrated as a Go/No-Go Decision Point.
- *Revised Go/No Go Decision Point: Discussions during and after the HTMWG meeting 5/19/06 generated some concern on the proper interpretation of the 3rd year go/no go decision point. The current milestone could be read to mean operation at a relative humidity of 50% at 120 °C while the intent is for the relative humidity to be based on a room temperature measurement. This latter interpretation is consistent with the HFCIT Multi-Year RD&D Plan 2010 membrane technical target (see Table 3.4.12) of an inlet water vapor partial pressure of 1.5 kPa. With the next amendment to our awards the go/no go decision point at Q3 Year 3 will be modified in the Statement of Project Objectives to: "Go/ no go decision point: Demonstrate conductivity of >0.1 S/cm at 120°C and 1.5 kPa inlet water vapor partial pressure to the fuel cell stack (50% relative humidity measured at room temperature)."*

# Technical Accomplishments

