

## DOE Durability Working Group Meeting

Tuesday, December 16, 2014, 9:00 am to 4:00 pm  
Argonne National Laboratory  
Energy Sciences Building, Building 241, Room A323  
Lemont, IL

- 8:45 am Arrive and get settled.
- 9:00 am **Welcome and introductory comments**  
Debbie Myers (Argonne), Rod Borup (LANL), Donna Ho (DOE),  
Co-chairs of Durability Working Group
- 9:05 am *Summary presentation of durability needs from 2013 and 2014 workshops*  
Donna Ho (DOE)
- Summary of new results and discussion of missing component-level needs*  
Metal bipolar plates  
Facilitator: Rod Borup
- Cathode Catalysts  
Facilitator: Debbie Myers
- 10:00 am Coffee Break: Coffee, tea, juice, bagels, and doughnuts available
- Continue summary of new results and discussion of missing component-level needs*
- Carbon supports  
Facilitator: Kateryna Artyushkova
- Catalyst layer and ionomer  
Facilitator: Mike Perry
- Membrane  
Facilitator: Craig Gittleman
- 11:30 am *Reversible degradation modes – background and research needs*  
Craig Gittleman (GM)
- Noon Lunch: Argonne cafeteria
- 1:00 pm Summary of Imaging/characterization capabilities at DOE User Facilities, National Labs and universities in FCTO projects, use of these capabilities in the FCTO program, and what capabilities need to be developed (wish list)
- Characterization Capabilities at Oak Ridge National Laboratory*  
Karren More (ORNL)
- FIB-SEM, XPS, and Data Processing: Relevance to Performance Degradation after ASTs*  
Kateryna Artyushkova (University of New Mexico)
- Characterization Capabilities at Argonne National Laboratory*

Debbie Myers or Amanda Petford-Long (ANL)

*Characterization Capabilities at Lawrence Berkeley National Laboratory*

Adam Weber (LBNL)

*Characterization Capabilities at Los Alamos National Laboratory*

Rod Borup and Mukund (LANL)

*Characterization Capabilities at the National Renewable Energy Laboratory*

Bryan, Huyen, or Shyam (NREL)

*Characterization Needs*

Jim Waldecker (Ford) – call-in

- 3:00 pm Define Durability Review Manuscript (Book, Review article, Report ...), Outline, Contributing Authors, etc.
- 3:30 pm Future of the Durability Working Group
- 4:00 pm Adjourn