

AGENDA

FY15 Crosscutting Research Peer Review August 24 – 28, 2015 Sheraton Station Square Pittsburgh, PA

Monday, August 24, 2015 – Ellwood Room

- 7:00 – 8:00 a.m. **Registration – 2nd Floor Foyer**
- 8:00 – 8:45 a.m. **Peer Review Panel Kickoff Session – Sensors and Control Key Technology**
Open to National Energy Technology Laboratory (NETL) and ASM International staff only
- NETL and ASM International Welcome
 - Role of Panel Chair
 - Peer Review Process Overview
 - Meeting Logistics
- 8:45 – 9:15 a.m. **Technology Manager/Office of Program Performance & Benefits (OPPB) and Panel Q&A**
Open to NETL and ASM International staff only
- Crosscutting Research Technology Manager – Bob Romanosky, NETL
 - OPPB
- 9:15 – 9:30 a.m. **BREAK**
- 9:30 – 10:00 a.m. **01 – Project # FWP-AL-14-450-011 – Sensors and Controls (Engineering of Complex Systems)**
Mark Bryden and Richard LeSar - Ames National Laboratory
- 10:00 – 10:45 a.m. Q&A
- 10:45 – 12:00 p.m. Discussion
- 12:00 – 1:00 p.m. **Lunch (on your own)**
- 1:00 – 1:30 p.m. **02 – Project # FE0012299 - Additive Topology Optimized Manufacturing with Embedded Sensing**
Joe Mantese - United Technologies Corporation
- 1:30 – 2:15 p.m. Q&A
- 2:15 – 3:30 p.m. Discussion

Tuesday, August 25, 2015 – Ellwood Room

7:00 – 8:00 a.m.	Registration – 2 nd Floor Foyer
8:00 – 8:30 a.m.	03 – Project # FE0012274 – Reduced Mode Sapphire Optical Fiber and Sensing System <i>Dan Homa - Virginia Polytechnic Institute and State University</i>
8:30 – 9:15 a.m.	Q&A
9:15 – 10:15 a.m.	Discussion
10:15 – 10:30 a.m.	BREAK
10:30 – 11:00 a.m.	04 – Project # FE0012321 – Investigation of "Smart Parts" with Embedded Sensors for Energy System Applications <i>Yirong Lin - University of Texas at El Paso</i>
11:00 – 11:45 a.m.	Q&A
11:45 – 12:45 p.m.	Discussion
12:45 – 1:45 p.m.	Lunch (on your own)
1:45 – 2:15 p.m.	05 – Project # FE0012383 – Smart Refractory Sensor Systems for Wireless Monitoring of Temperature, Health and Degradation of Slagging Gasifiers <i>Edward Sabolsky - West Virginia University Research Corporation</i>
2:15 – 3:00 p.m.	Q&A
3:00 – 4:00 p.m.	Discussion

Wednesday, August 26, 2015 – Ellwood Room

7:00 – 8:00 a.m.	Registration – 2 nd Floor Foyer
8:00 – 8:30 a.m.	06 – Project # FE0012302 – Evolving Robust and Reconfigurable Multi-Objective Controllers for Advanced Power Systems <i>Kagan Tumer – Oregon State University</i>
8:30 – 9:15 a.m.	Q&A
9:15 – 10:15 a.m.	Discussion
10:15 – 10:30 a.m.	BREAK
10:30 – 11:30 a.m.	Wrap-up Session
11:30 – 12:30 p.m.	Lunch (on your own)
12:30 – 1:15 p.m.	Peer Review Panel Kickoff Session – High Performance Materials Key Technology <u>Open to National Energy Technology Laboratory (NETL) and ASM International staff only</u> <ul style="list-style-type: none">- NETL and ASM International Welcome- Role of Panel Chair- Peer Review Process Overview- Meeting Logistics
1:15 – 1:45 p.m.	Technology Manager/Office of Program Performance & Benefits (OPPB) and Panel Q&A

Open to NETL and ASM International staff only

- Crosscutting Research Technology Manager – Bob Romanosky, NETL
- OPPB

1:45 – 2:00 p.m.	BREAK
2:00 – 2:30 p.m.	07 – Project # FE0024027 – Modeling Long-Term Creep Performance for Welded Nickel-Base Superalloy Structures for Power Generation Systems <i>Chen Shen and Monica Soare - General Electric Company</i>
2:30 – 3:15 p.m.	Q&A
3:15 – 4:30 p.m.	Discussion

Thursday, August 27, 2015 – Ellwood Room

7:00 – 8:00 a.m.	Registration – 2nd Floor Foyer
8:00 – 8:30 a.m.	08 – Project # FE0024054 – Computational Design and Performance Prediction of Creep-Resistant Ferritic Superalloys <i>Peter Liaw - University of Tennessee</i>
8:30 – 9:15 a.m.	Q&A
9:15 – 10:15 a.m.	Discussion
10:15 – 10:30 a.m.	BREAK
10:30 – 11:00 a.m.	09 – Project # FE0024120 – Predicting the Oxidation/Corrosion Performance of Structural Alloys in Supercritical CO ₂ <i>John Shingledecker - Electric Power Research Institute</i>
11:00 – 11:45 a.m.	Q&A
11:45 – 12:45 p.m.	Discussion
12:45 – 1:45 p.m.	Lunch (on your own)
1:45 – 2:15 p.m.	10 – Project # FWP-FEAA114 – Advanced Alloy Design Concepts for High Temperature Fossil Energy Applications <i>Yukinori Yamamoto - Oak Ridge National Laboratory</i>
2:15 – 3:00 p.m.	Q&A
3:00 – 4:00 p.m.	Discussion

Friday, August 28, 2015 – Ellwood Room

- 7:00 – 8:00 a.m. **Registration – 2nd Floor Foyer**
- 8:00 – 8:30 a.m. **11 – Project # FWP-2012.04.01 – Innovative Process Technologies - Subtask 3.4**
Computational Aspects in Alloy Design & Life Prediction
Jeffrey Hawk and David Alman - National Energy Technology Laboratory
- 8:30 – 9:15 a.m. Q&A
- 9:15 – 10:15 a.m. Discussion
- 10:15 – 10:30 a.m. **BREAK**
- 10:30 – 11:00 a.m. **12 – Project # FE0024014 – Benefits of Hot Isostatic Pressure/Powdered Metal (HIP/PM)**
and Additive Manufacturing (AM) to Fabricate Advanced Energy System Components
Nancy Horton and Roy Sheppard - Energy Industries of Ohio Inc.
- 11:00 – 11:45 a.m. Q&A
- 11:45 – 12:45 p.m. Discussion
- 12:45 – 1:45 p.m. **Working Lunch - Wrap-up Session**