

# 19<sup>th</sup> INDUSTRIAL ADVISORY BOARD MEETING

IAB AGENDA

MAY 13 & 14, 2010

THURSDAY | MAY 13, 2010

- 7:30 AM Registration and Breakfast | 40 min
- 8:10 AM IAB Chairmen's Adress & Introduction of Attendees | 20 min
- 8:30 AM Remarks by the NSF Program Director & New Opportunities | 15 min
- 8:45 AM IMS Directors' Reports: Jay Lee, Jun Ni & Jag Sarangapani | 15 min
- 9:00 AM Host Welcome: GE Aviation | 15 min
- 9:15 AM Technical Presentations | University of Cincinnati  
» *Adaptive Modeling for Robust Prognostics on a Reconfigurable Platform*, Linxia (Leo) Liao | 15+5 min  
» *Remaining Useful Life Estimation Through Multiple Model Fusion*, Tianyi Wang | 15+5 min
- 9:55 AM Break | 10 min
- 10:05 AM Technical Presentations | University of Michigan  
» *Integrated Production & Maintenance Planning for a Multiple Product System*, Seungchul Lee | 15+5 min  
» *Risk Assessment & Applications*, Saumil Ambani | 15+5 min
- 10:45 AM Break | 10 min
- 10:55 AM Technical Presentations | Missouri S&T  
» *A New Fault Diagnosis & Prognostics Scheme for Multiple Fault Types*, Balaje Thumati | 15+5 min  
» *Degradation Detection Prognostics of HVAC Systems*, Shahab Mehraeen | 15+5 min
- 11:35 AM Energy Initiatives  
» *Prognostics for Energy Systems: Batteries, Wind Turbines & Solar*, Hassan Al-atat, Mohamed Rezvanizanani, Mohamed Abuali | 10 min
- 12:10 PM Lunch Break | 60 min



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1:10 PM

Updates on Selected Company / NSF Projects

- » *GE Laser Drilling*, Masoud Ghaffari, Hassan Al-atat, Yan Chen | 10 min
- » *Non-intrusive Power-based Machine Monitoring*, Mohamed Abuali | 10 min
- » *Experimental Verification of the Online Model-based Fault Detection Scheme on a Rotating Machine*, Balaje Thumati | 10 min
- » *Centrifugal Pump Prognostics Using MTS Methodology*, Ahmet Soylemezoglu | 10 min
- » *Adaptive Planning for Hybrid Truck Idling Problems*, Ahmad Almuhtady | 10 min
- » *Planning for Vehicle Battery Remanufacturing*, Xiaoning Jin | 10 min

2:10 PM

Break | 10 min

2:20 PM

New Proposals & New Company Presentations

- » *Center for Excellence & Rapid Realization of Prognostics*, Jay Lee | 15 min
- Ingersoll Rand*, TBD | 10 min
- Idaho National Labs*, TBD | 10 min
- Tekniker Research Alliance*, Aitor Arnaiz, Ana Aranzabe | 10 min

3:05 PM

Poster Session & Demonstrations | 90 min

4:35 PM

Project Feedback | 25 min

5:00 PM

Adjourn

6:30 PM

Reception & Dinner

FRIDAY | MAY 14, 2010

7:30 AM

Breakfast | 30 min

8:00 AM

LIFE Forms Feedback Session | 120 min

10:00 AM

Break | 10 min

10:10 AM

Closed Door Session | **Members Only**

*Approve IAB 18 Minutes*

*Choose IAB 20 Dates*

*I/UCRC Transformation*

*IMS Book*

*Center of Excellence*

*Data Repository*

NOON

Lunch | 60 min

1:00 PM

Adjourn