



# Agenda

**Monday, December 6, 2004**

**8:30 – 9:00**

**Welcome**

**Terri Calton PHM COE Lead**

- Security/domestics
- Meeting Goals, Agenda Review, & Round-the-room Introductions

**9:00 – 9:15**

**Welcoming Introduction**

**Jerry McDowell, VP, Sandia, DoD System Analysis Programs**

**9:15 – 9:45**

**Review of Road from Idea to this Meeting**

**Bob Cranwell, Manager, Sandia  
System Sustainment & Readiness**

- PHM Historical Perspective
- The Corporate Need for a COE and Why Sandia?
- COE definition: what, why, how (org structure, scope, approach), & when

**9:45 – 12:00**

**Sandia National Laboratories PHM Technology Capabilities**

9:45 - 10:05

- Modeling, Simulation, & Analysis
  - Advanced Simulation Computing (ASC) Program
  - Computational Materials & Molecular Sciences

**Bob Thomas, Manager  
Eliot Fang, Manager**

10:05 - 10:25

- Information Systems Development
  - Software Development and Data Integration
  - Information Technology and Data Modeling
  - Data Warehousing

**David Williams, Director  
Kim Denton-Hill, Manager**

**10:25 - 10:40**

**Break**

10:40 – 11:00

- Materials Aging
  - Life Extension
  - Reliability Predictions

**Dick Salzbrenner, Dep Director**



# Agenda

**Monday, December 6, 2004**

**11:00 – 12:00 Sandia National Laboratories PHM Technology Capabilities Continued**

11:00 - 11:30

• **Microsensor Development**

- *Microsystems & Engineering Science Applications (MESA) Program*
- *Integrated Micro-machine Sensors*
- *Chemical and Physical Fluid Monitoring*
- *Micro-acoustic Spectrum Analysis*
- *Fiber-optic Chemical Sensors*

**Jay Jakubczak, Level II**  
**Steve Martin, Level II Mgr**  
**Regan Stinnett, Manager**

11:30 – 12:00

• **Structural Dynamics and Smart Structures**

- *Embedded, Advanced, and Distributed Sensors*
- *Structural Health monitoring*
- *Structural Dynamics Research & Smart Structures*

**Tom Baca , Manager**

**12:00 – 1:00 Lunch**

1:00 – 1:30

• **Life Prediction Algorithms and Applications**

- *Fuzzy Logic, Neural Networks, Bayesian Networks and Updating, Genetic Algorithms, and Physics-of-Failure Algorithms*

**Laura Swiler, Principal Technical Staff**

**1:30 – 3:30**

**Government, Industry, & Academia PHM Technology Capabilities**

1:30 – 2:00

• **Structural Health Monitoring & Damage Prognosis**

**Charles Farrar, LANL**

2:00 – 2:30

• **Diagnostics Research**

**Harry Decker, ME, NASA GRC**

2:30 – 3:00

• **Navy Warfare Center's Responsibilities & RDTE Portfolio Related to PHM**

**Thomas Galie,**  
**Program Mgr, NAVSEA**

3:00 – 3:30

• **Prognostic Health Management - Honeywell Capabilities and Needs**

**Jeff Radke**  
**Manager, Honeywell**

**3:30 – 3:45**

**Break**



# Agenda

## Monday, December 6, 2004

3:30 – 5:00

### **Wrap-up for the Day**

**Terri Calton / All**

- *PHM COE Business Model and Technology Roadmapping Process*
- *Review Technology Needs Forms*
- *Develop Roadmapping Templates and Expectations for Tuesday*
- *Identify Technology Roadmapping Working Groups for Tuesday Workshops*
  - *Information Systems Development*
  - *Technology Analysis and Development*
  - *Technology Test and Validation Facilities*
- *Summarize Day's Achievements*

## Tuesday, December 7, 2004

8:00 – 12:00

### **Moderated Discussions and Workshops on Needs**

**Terri Calton / All**

- *Derived from Monday's wrap-up session*
- *Form Technology Roadmapping Break-out Groups*
- *Information Systems Development, Technology Analysis and Development, and Technology Test and Validation Facilities*

**Workshop Groups**

12:00 – 1:00

### **Working Lunch**

1:00 – 2:30

### **Technology Roadmapping Workshop Summaries**

**Workshop Leads**

- *Information Systems Development*
- *Technology Analysis and Development*
- *Technology Test and Validation Facilities*

*Kim Denton-Hill*

*Dan Briand*

*Bob Cranwell*

2:30 – 3:30

### **PHM COE Business Model and Administration**

**Ray Shaum**

- *Advisory Board*
- *Partnerships and Contracting Mechanisms*
- *Potential IPR and Confidentiality Agreements (NDAs)*
- *SOW Templates*

*Senior Administrator*



# Agenda

## Tuesday, December 7, 2004

**3:30 – 3:45**     **Break**

**3:45 – 4:45**     **Policy & Institutional Initiatives And Market Opportunities**

- *We should now have a good idea of what we have and how we can collaborate and leverage capabilities. Decide on what we want to do – agree to the technology needs*
  
- *Having agreed on needs, identify those that must be addressed immediately, either because they are "burning platforms" or because subsequent needs are highly dependent on the outcome. Break into two discussion groups to talk about things relevant to each: Group 1 - .gov and Group 2 - .edu, .org, and .com*

**Ray Shaum**  
**Steve Roehrig**

**4:45 – 5:00**     **Wrap-up for the Day**

- *Review Goals and Measure Progress*
- *Propose Workshops for Wednesday and Formulate Workshop Outputs*
- *Summarize Day's Achievements*

**Terri Calton**

## Wednesday, December 8, 2004

**8:00 – 10:30**

**Workshops on Ways Forward Dependant upon Need**

- *From previous closing*

**Terri Calton / All**

**10:30 – 10:45**     **Break**

**10:45 – 12:00**     **Summary and Action Plan**

- *Co-ordinate Meeting / Workshop Outputs into Concluding Summary*