

AGENDA

Tuesday, December 4, 2012

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| 7:30 am | Registration and Continental Breakfast | AML Conference Rm., Bldg. 215/216 |
| 8:30 am | Opening Plenary Session <ul style="list-style-type: none"> • Welcome ~ Shyam Sunder, Director, Engineering Laboratory, NIST • Stage-setting Presentations <ul style="list-style-type: none"> ➢ Workshop Scope and Objectives ~ Kevin Jurens, Deputy Chief, Intelligent Systems Division, NIST ➢ Highlights of Prior Additive Manufacturing Roadmaps ~ Dave Bourell, Temple Foundation Professor, University of Texas at Austin, Co-Chair 2009 Roadmap for Additive Manufacturing ➢ ASTM F42 Strategic Framework for Additive Manufacturing Standards ~ Brent Stucker, Professor, University of Louisville, Chair of ASTM F42 ➢ NAMII Additive Manufacturing Pilot: Priority R&D Needs ~ Gary Fleegle, Vice President and Chief Operating Officer, National Center for Defense Manufacturing and Machining, NAMII Acting Deputy Director for Technology Development | AML Conference Rm., Bldg. 215/216 |
| 10:00 am | Break | |
| 10:30 am | Industry Panel <ul style="list-style-type: none"> • Moderated Session and Q&A on AM User Perspectives <ul style="list-style-type: none"> ➢ Moderator ~ Ed Herderick, EWI, Chair of Additive Manufacturing Consortium (AMC) ➢ Panelists ~ <ul style="list-style-type: none"> Agnes Klucha, Program Manager, Engineering Innovation Center, Pratt and Whitney John Hunter, Director of Marketing & Sales, Carpenter Powder Products, Inc. Dean Robinson, Manager, Model-Based Manufacturing Lab, GE Global Research Center Hank Phelps, Senior Engineer, Technology Development & Integration, Airframe Design, Lockheed Martin Aeronautics | |
| 11:40 am | Morning Wrap up and Instructions for Breakout Sessions <ul style="list-style-type: none"> ➢ Joan Pellegrino, Energetics, Incorporated | |
| 11:45 am | Lunch After lunch, participants will move to their assigned breakouts: <ul style="list-style-type: none"> • AM materials • AM processes and equipment • Qualification & certification of materials, processes, and products • Modeling and simulation of AM | NIST Cafeteria, Bldg. 101 Bldg. 220, Rm. B321 Bldg. 220, Rm. B105 AML Conference Rm. Bldg. 220, Rm. B125 |
| 1:00 pm | Breakout Session I: Desired Capabilities for Additive Manufacturing <ul style="list-style-type: none"> ➢ Envisioned future: What capabilities do we want and need the most | |
| 3:00 pm | Break | AML Conference Rm., Bldg. 215/216 |
| 3:20 pm | Breakout Session II: Challenges and Barriers for Achieving the Capabilities <ul style="list-style-type: none"> ➢ Barriers limiting the broad use of additive manufacturing ➢ Measurement and standards barriers, challenges, and gaps | |
| 5:00 pm | Adjourn Day 1 | |

Wednesday, December 5, 2012

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| 8:00 am | Continental Breakfast | AML Conference Rm., Bldg. 215/216 |
| | After breakfast, participants will move to their assigned breakouts: | |
| | • AM materials | Bldg. 220, Rm. B321 |
| | • AM processes and equipment | Bldg. 220, Rm. B105 |
| | • Qualification & certification of materials, processes, and products | AML Conference Rm. |
| | • Modeling and simulation of AM | Bldg. 220, Rm. B125 |
| 8:30 am | Breakout Session III: Prioritization of Challenges | |
| | ➤ Review, clarify, and vote on the top challenges | |
| | ➤ Determine R&D priorities | |
| | ➤ Identify standardization priorities for ASTM F42 | |
| 10:15 am | Break | AML Conference Rm., Bldg. 215/216 |
| 10:30 am | Breakout Session IV: Pathways for Measurement Science Roadmap | |
| | • Small groups work to develop roadmap elements: | |
| | ➤ R&D, standards, and other approaches for addressing priority challenges | |
| | ➤ Next steps and actionable plan | |
| 11:45 am | Lunch | NIST Cafeteria, Bldg. 101 |
| 1:00 pm | Plenary Session | AML Conference Rm., Bldg. 215/216 |
| | • Breakout Group Reports (Part 1) | |
| 1:30 pm | • Plenary Talk: Manufacturing the Road to Success | |
| | ➤ Tom Kurfess , Assistant Director for Advanced Manufacturing, Office of Science and Technology Policy, Executive Office of the President | |
| 2:00 pm | • Breakout Group Reports (Part 2) | |
| | • Workshop Wrap up and Next Steps | |
| | ➤ Kevin Jurrens , NIST | |
| 2:30 pm | Adjourn Workshop | |
| 3:00 pm | Interagency Roundtable (government only) | |