



2nd Annual Structural Reliability Partnership Workshop

July 31-August 1, 2018 | NIST, Boulder, CO

Tuesday, July 31, 2018

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| 8:00 – 8:30 | Registration and Check In |
| 8:30 – 9:00 | Welcome and Introductions (30 minutes)
—Frank DelRio and Dan Friend, NIST |
| 9:00 – 9:30 | Overview of the SRP (30 minutes)
—Eliot Fang and Jon Zimmerman, Sandia National Laboratories <ul style="list-style-type: none">• Summary of Principles, Vision, Goals, and FY18 Accomplishments |
| 9:30 – 10:00 | Overview of the Third Sandia Fracture Challenge (30 minutes)
—Brad Boyce, Sandia National Laboratories |
| 10:00 – 10:20 | Break (20 minutes) |
| 10:20 – 11:00 | Technical Deep Dive Presentation #1 (40 minutes)
—Ashley Spear, University of Utah <ul style="list-style-type: none">• Site-Specific Property Maps of Additively Manufactured Metals using a Numerical Process-Structure-Property Framework |
| 11:00 – 11:30 | Summary of Challenge Scenario Concept and Best Practices (30 minutes)
—Brad Boyce, Sandia National Laboratories |
| 11:30 – 11:45 | Additive Manufacturing Challenge Scenario Update (15 minutes)
—Xin Sun, Oak Ridge National Laboratories |
| 11:45 – 12:00 | Hydrogen Pipeline Challenge Scenario Update (15 minutes)
—Jevan Furmanski, Exxon Mobil |
| 12:00 – 1:20 | Working Lunch (80 minutes) <ul style="list-style-type: none">• Materials Storage Discussion |
| 1:20 – 2:20 | NIST Tours (60 minutes, 2 groups)
—Frank DelRio, NIST <ul style="list-style-type: none">• Charpy Verification Program (Enrico Lucon, NIST)• Highway and Mechanical Testing Facilities (Dash Weeks, NIST) |
| 2:20 – 3:00 | Discussion on SRP Management (40 minutes)
—Brad Boyce, Sandia National Laboratories <ul style="list-style-type: none">• Leadership Structure, Membership Roles and Expectations |
| 3:00 – 3:20 | Break (20 minutes) |



3:20 – 3:50	Poster Overviews (30 minutes, 3 minutes/overview)
3:50 – 5:00	Poster Session / Networking Reception
6:30	Dinner

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Wednesday, August 1, 2018

8:15 – 8:30	Welcome and Overview of Previous Day (15 minutes) —Frank DelRio, NIST
8:30 – 9:10	Data Management Plan Update / Discussion (40 minutes) —Youssef Hammi, Mississippi State University
9:10 – 9:50	Technical Deep Dive Presentation #2 (40 minutes) —Andy Slifka, NIST <ul style="list-style-type: none">• Mechanical Testing in Hydrogen
9:50 – 10:10	Break (20 minutes)
10:10 – 11:30	Breakout Group Discussions (80 minutes) <ul style="list-style-type: none">• Additive Manufacturing—Xin Sun• Hydrogen Pipeline—Jevan Furmanski• Future Needs / SRP Topic Areas—Eliot Fang
11:30 – 12:30	Breakout Group Report Out / Follow-on Discussion (60 minutes) <ul style="list-style-type: none">• 10 minutes/group, 30 minutes for discussion
12:30 – 1:30	Lunch (60 minutes)
1:30 – 2:30	NIST Tours (60 minutes, 2 groups) —Frank DelRio, NIST <ul style="list-style-type: none">• Hydrogen Testing Facilities (Andy Slifka, NIST)• X-ray Computed Microtomography (Edward Garboczi, NIST)
2:30 – 3:00	Voting on SRP Management and Future Topic Area (30 minutes) —Brad Boyce, Sandia National Laboratories
3:00 – 3:30	Actions and Next Steps for SRP (30 minutes) —Brad Boyce, Sandia National Laboratories <ul style="list-style-type: none">• Summary of Actions and Next Steps• Location of Next Annual Workshop
3:30	Adjourn