2018 ASPE and euspen Summer Topical Meeting on Advancing Precision in Additive Manufacturing

Berkeley, California, USA
22 - 25 July 2018

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Meeting Program

Sunday, July 22, 2018

9:00 AM – 12:00 Noon – Tutorial
Basics of Metrology
Richard Leach (University of Nottingham, UK)

8:00 AM – 12:00 Noon – Tutorial
Fracture and Fatigue Issues for (Metal) Additive Manufacturing
John J Lewandowski – Arthur P Armington Professor of Engineering II and Director Advanced Manufacturing and Mechanical Reliability Center (AMMRC), Case Western Reserve University, Cleveland, OH

12:00 Noon – 1:00 PM – Lunch on-your-on

1:00 PM – 5:00 PM – Tutorial
X-ray Computed Tomography for Dimensional Metrology
Adam Thompson (University of Nottingham); Massimiliano Ferrucci (Materialise);
Evelina Ametova – (KU Leuven)

1:00 PM – 5:00 PM – Tutorial
Applications of Metal Additive Manufacturing to Precision
Kevin Raedts (VDL ETG); Gerrit Oosterhuis (VDL ETG)

6:30 PM – Welcome Reception at Jupiter – 2181 Shattuck Ave, Berkeley, CA 94704

Monday, July 23, 2018

8:00 AM – **Registration & Light Breakfast**

8:30 AM – **Conference Opening**

Welcome
Eric Buice, ASPE President, Lawrence Berkeley National Laboratory

Opening Remarks
John S. Taylor, Conference Co-chair, University of North Carolina-Charlotte

Perspective
Richard K. Leach, Conference Co-chair, University of Nottingham
David Bue Pedersen, Technical University of Denmark

Keynote Speaker
Precision Additive Metal Manufacturing. 18
Ann Witvrouw (University of Leuven (KU Leuven))

9:45 AM – Session 1: Applications of AM & Functional Specifications
Antonius T. Peijnenburg (VDL Enabling Technologies Group) and
Sam Anand (University of Cincinnati)

Oral Presentation
Precise Additive Manufacturing Technology Application to Heavy Duty Industrial Gas Turbines
Vogel, G.; Rosenbarger, T.; McNally, J.; Houck, L. (Power Systems Manufacturing) 1

Oral Presentation
Design and Evaluation of a 3D Printed Flexure for a Fast Steering Mirror
Schlarp, J.; Csencsics, E.; Ito, S.; Schitter, G. (Vienna University of Technology) 7

Tuesday, July 24, 2018

Wednesday, July 25, 2018
