

# Advanced Manufacturing Workshop: Preparing the Next Generation of Researchers

October 16th to 18th, 2017  
Iowa State University, Ames, Iowa



## Preliminary Agenda

October 16<sup>th</sup> to 18<sup>th</sup>, 2017  
Iowa State University, Ames, Iowa

### October 15<sup>th</sup>, 2017

Arrival Day

### October 16<sup>th</sup>, 2017

7:30am-8:30am

Breakfast and Registration

8:30am-9:00am

Introductions and Opening Remarks

Iris V. Rivero, Ph.D., Associate Professor, Industrial & Manufacturing Systems Engineering, Iowa State University

9:00am-11:00am

Professional Development Session:  
Women of Color in the Engineering Professoriate

Gilda A. Barabino, Ph.D. Berg Professor & Dean of The Grove School of Engineering, The City College of New York

Panel Discussion: Potential obstacles faced by females and URM's in Advanced Manufacturing

11:00am

Break

11:30am-12:30pm

General introduction of topic areas (Materials, Additive, Hybrid);  
Establishment of work groups.

12:30pm-1:30pm	Lunch
1:30pm-3:30pm	AM Topic: Design of Materials and Breakout  Denis Cormier, Ph.D., Earl W. Brinkman Professor, Industrial and Systems Engineering Department; and AMPrint Center Director, Rochester Institute of Technology.
3:30pm	Break
4:00pm-6:00pm	Professional Development Session: The “Double Bind”: Gender and Race in Engineering Academia  Marlene Tromp, Ph.D., Campus Provost and Executive Vice Chancellor, University of California Santa Cruz  Panel Discussion: Impediments to Timely Development of Effective Training Materials
6:30pm-7:30pm	Networking Reception
7:30pm-9:30pm	Dinner Keynote: Sarah Rajala, Ph.D. James L. and Katherine S. Melsa Dean of Engineering, Iowa State University
<b><u>October 17<sup>th</sup>, 2017</u></b>	
7:30am-8:30am	Breakfast
8:30am-10:30am	AM Topic: Hybrid Manufacturing and Breakout  Matthew Frank, Ph.D., Associate Professor, Department of Industrial & Manufacturing Systems Engineering, Iowa State University
10:30am	Break
11:00am-12:00pm	TBD
12:00pm-2:00pm	Lunch

- 2:00pm-4:00pm AM Topic: Additive Manufacturing and Breakout
- Ola L. A. Harrysson, Ph.D., Edward P. Fitts Distinguished Professor, Fitts Department of Industrial and Systems Engineering, Department of Biomedical Engineering, Department of Material Science and Engineering; and Co-Director of the Center for Additive Manufacturing and Logistics (CAMAL), North Carolina State University.
- 4:00pm Break
- 4:30pm-5:30pm Ethnographic Interviews or Panel Discussion: Mentoring, Networking, and Changing the Professional Environment for Women of Color in Engineering Academia
- Lana J. Rucks, Ph.D.  
Principle Consultant, The Rucks Group LLC
- 6:00pm-7:00pm Reception
- 7:00pm-9:00pm Dinner
- Keynote: David L. Bourell, Ph.D.  
Temple Foundation Endowed Professor, Department of Mechanical Engineering, Department of Materials Science and Engineering; and Director of the Laboratory for Freeform Fabrication, University of Texas at Austin
- October 18<sup>th</sup>, 2017**
- 7:30am-8:30am Breakfast
- 8:30am-9:30am Hazelrigg Catechism – Its role in describing Advanced Manufacturing Research
- Steven Schmid, Ph.D., NSF Program Director of Manufacturing Machines and Equipment (MME), Division of Civil, Mechanical & Manufacturing Innovation (CMMI); and Professor of Aerospace and Mechanical Engineering, University of Notre Dame.
- 9:30am-10:30am Interactive Session: The White Paper - Peer Review and Editing

10:30am-12:00pm Concurrent Session: Speed Mentoring

Concurrent Session: Meetings with Program Directors (NSF, DoD, NIH)

12:00pm-12:30pm Wrap Up