Additive Manufacturing (3D Printing) Workshop

Tuesday, January 12, 2016
8:30 AM – 3:30 PM, Keller Hall, Rm 3-210
University of MN, Twin Cities East Bank Campus

Sponsored by IPrime’s Coatings Processes Fundamentals (CPF), Microstructured Polymers (MP), and Biomaterials and Pharmaceutical Materials (BMP) partnership research programs.
Lorraine Francis (coordinator)

Description
This workshop focuses on additive manufacturing (also known as 3D printing). Presentations from academia and industry cover a range of methods and materials, and span applications from medicine and biomedical devices to advanced structural materials and electronics.

8:00 Check-in | Coffee

8:30 Welcome and Introduction
Lorraine Francis, University of Minnesota
Bob Lewis, IPRIME,

8:45 Towards 3-D Printed Soft Robotics
Adam Cohen, Southern Methodist University

9:30 3D Bioprinting for Tissue Engineering
Angela Panoskaltsis-Mortari, Dept. of Pediatrics, Medical School, University of Minnesota

10:00 BioBot 1. What Will You Print?
Ricky Solorzano, Biobots

10:30 Morning Break

10:50 3D Printing in Pharmaceutical Innovation, Exploration, and Development
David DeGrio, Upsher-Smith

11:20 Integration of 3DP/AM and Pathways to Innovation
Tom Wrobel and Alex Roberts, Boston Scientific

11:50 Lunch

1:00 Direct Write 3D Printing of Ceramics
James Smay, Department of Materials Science and Engineering, Oklahoma State University

1:45 3D Printed Bionic Nanomaterials
Mike McAlpine, Department of Mechanical Engineering University of Minnesota

2:20 Additive Manufacturing Materials Overview
Luke Rodgers, Stratasys

2:50 Continuous Liquid Interface Production: Enabling New Materials and Applications
Justin Poelma and Julie Cushen, Carbon 3D

3:30 Adjourn