3D Printing

IPRIME Midyear Workshop

Tuesday, January 14, 2020
8:30 AM – 3:00 PM,
University of MN, Twin Cities East Bank Campus, 3-210 Keller Hall

Description. This workshop will address the science and engineering of 3D printing, also known as additive manufacturing. Topics at the core of IPRIME – materials, interfacial phenomena and processing science – are also essential to the field of 3D printing. In this workshop, we will explore these topics and more. This workshop is co-sponsored by three IPRIME programs: Biomaterials and Pharmaceutical Materials, Coating Process Fundamentals, and Microstructured Polymers.

8:30  Registration, Coffee

8:45  Welcome and Introduction

9:00  Direct Ink Write Additive Manufacturing of High Particle Content Suspensions
Prof. Blair Brettmann, School of Chemical and Biomolecular Engineering and School of Materials Science and Engineering, Georgia Institute of Technology

9:45  Taking Production Additive Manufacturing Mainstream
Dr. Brian Mullen, Build Process Engineering Manager, Evolve Additive Solutions

10:15  Break

10:45  From Liquid to Solid: How to Do Chemistry in a 3D Printer
Dr. Hervé Dietsch, Technical Manager 3D Printing, BASF

11:15  Integrating Printer Controls with Thermoset Printing at Chromatic 3D Materials
Dr. Cora Leibig, Founder and CEO, Chromatic 3D Materials

11:45  Unlocking High Area Rapid 3D Printing for Manufacturing
Dr. James Hedrick, CEO and Co-founder, and Dr. David Walker, CEO and Co-founder, Azul 3D

12:15  Lunch

1:15  Breaking the Mold Through Innovation and Partnerships
Dr. Sumeet Jain, Global Managing Director – 3D Printing, Sartomer

1:45  3D Printing Technology in Drug Delivery, Pharmaceutical Product Development and Manufacturing
Prof. Xiaoling Li, Department of Pharmaceutics and Medicinal Chemistry, University of the Pacific

2:30  3D Printed Biomedical Devices Directly on the Body
Prof. Mike McAlpine, Department of Mechanical Engineering, University of Minnesota

3:00  Adjourn