



April 12: Day 1

Introduction and Welcoming Remarks | 10:00 am ET

Session I

Additive Manufacturing of Ceramics Using Pre ceramic Polymers | 10:05 am
Speaker: Paolo Colombo, University of Padova

3D Printed Ceramics with Natural Medicines for Bone Regeneration: Convergence of Knowledge | 10:25 am
Speaker: Susmita Bose, Washington State University

Advances on Additive Manufacturing for Dielectric, Piezoelectric, and Ferroelectric Devices | 10:45 am
Speaker: Ahmad Safari, Rutgers, The State University of New Jersey

Q&A | 11:05 am
Session Chair: Shawn Allan, Lithoz America

Break | 11:15 am

Session II

FDM Ceramic 3D Printing: Technology and Applications | 11:30 am
Speaker: Guillaume de Calan, Nanoe

The Influence of Print Layer Orientation on the Mechanical Properties of SiC and C_F/SiC CMCS Formed via Direct Ink Writing | 11:50 am
Speaker: Rodney Trice, Purdue University

Considerations for Industrializing Additive Manufacturing | 12:10 pm
Speaker: Cathleen Hoel, GE Global Research

Q&A | 12:30 pm

Session Chair: Susmita Bose, Washington State University

Panel Discussion

Manufacturer Perspective | 12:40 pm

Speaker: Thomas Henriksen, Ceramco Inc.

Validation/Characterization of 3D Printed Ceramics | 12:50 am

Speaker: Dale Cillessen, Sandia National Laboratories

AM of Ceramics | 1:00 pm

Speaker: Matt Dickerson, Air Force Research Laboratory/Air Force Office of Scientific Research

Group Discussion | 1:10 pm

Chair: Amit Bandyopadhyay, Washington State University

April 13: Day 2

Introduction | 10:00 am ET

Session I

Challenges and Opportunities in Future Ceramic Additive Manufacturing—An NSF Perspective | 10:05 am

Speaker: Y. Kevin Chou, National Science Foundation

Advanced Manufacturing for the Pursuit of Heterogeneous Ceramic Design | 10:25 am

Speaker: Andrew Rosenberger, US Army Research Lab

3D Printing of Implantable Biomaterials and Implants: Opportunities and Challenges | 10:45 am

Speaker: Bikramjit Basu, Indian Institute of Science

Q&A | 11:05 am

Session Chair: Shawn Allan, Lithoz America

Break | 11:15 am

Session II

Additive Manufacturing of Melt Growth Ceramics by

Laser Directed Energy Deposition | 11:30 am

Speaker: Fangyong Niu, Dalian University of Technology

Binder Jet Printing of Ceramics | 11:50 am

Speaker: Karl-Heinz Schofalvi, Desktop Metal

Lithography-based Ceramic Additive Manufacturing | 12:10 pm

Speaker: Shawn Allan, Lithoz America

Q&A | 12:30 pm

Session Chair: Amit Bandyopadhyay, Washington State University

Panel Discussion

3D Printing of Ceramics in India | 12:40 pm

Speaker: Vamsi Balla, Central Glass and Ceramic Research Institute

Large Ceramic Structures/Laser Ceramics | 12:50 am

Speaker: Zachary Seeley, Lawrence Livermore National Laboratory

Robocasting of Ceramics | 1:00 pm

Speaker: Joe Cesarano, Robocasting

Group Discussion | 1:10 pm

Chair: Susmita Bose, Washington State University