

3D Bioprinting: Physical and Chemical Processes

May 2-3, 2017 • Winston Salem, NC, USA

Register today at services.aip.org/aipphorizons

The conference will focus on the physical and chemical processes that underlie 3D bioprinting techniques for applications in the fabrication of artificial tissues and biomedical devices, such as fused deposition modeling, stereolithography apparatus, laser direct writing, and inkjet printing. Current limitations, proposed solutions, and open challenges related to the development of novel 3D bioprinting approaches will be emphasized.

The invited speakers are a selected group of accomplished and promising researchers working across a broad span of approaches in 3D bioprinting. In addition to the invited speakers, **the conference aims to attract the best and brightest early-career researchers in the field to take part in the discussion and present their work in the poster sessions.**

The conference will be of interest to researchers, students, medical device manufacturers, and clinicians involved with 3D printing technologies, and it will be sized to promote informal conversations and exchange of ideas between participants, including during session breaks and the conference dinner.

Confirmed Invited Speakers:

Anthony Atala (Wake Forest Institute for Regenerative Medicine, Winston Salem, NC, USA)

Karen Burg (College of Veterinary Medicine, University of Georgia, Athens, GA, USA)

Shaochen Chen (Biomaterials and Tissue Engineering Center, University of California, San Diego, CA, USA)

Douglas Chrisey (Department of Physics, Tulane University, New Orleans, LA, USA)

Paulo Da Silva Bartolo (School of Mechanical, Aerospace and Civil Engineering, The University of Manchester, Manchester, UK)

Tal Dvir (Department of Molecular Microbiology and Biotechnology and the Center for Nanoscience and Nanotechnology, Tel Aviv University, Tel Aviv, Israel)

John Fisher (Department of Bioengineering, University of Maryland, College Park, MD, USA)

Jürgen Groll (Department for Functional Materials in Medicine and Dentistry, University of Würzburg, Würzburg, Germany)

Richard Hague (EPSRC Centre for Additive Manufacturing, University of Nottingham, Nottingham, UK)

Yong Huang (UF Center for Manufacturing Innovation, University of Florida, Gainesville, FL, USA)

Jos Malda (Department of Orthopaedics, Regenerative Medicine & Stem Cells Program, University Medical Center Utrecht, Utrecht, Netherlands)

Roger Narayan (Department of Biomedical Engineering, North Carolina State University, Raleigh, NC, USA)

Bradley R. Ringeisen (Bioenergy and Biofabrication Section, U.S. Naval Research Laboratory, Washington DC, USA)

Iain S. Whitaker (Department of Plastic and Reconstructive Surgery, Reconstructive Surgery & Regenerative Medicine Research Group, Swansea University Medical School, Swansea, Wales, UK)

Wai Yee Yeong (School of Mechanical and Aerospace Engineering, Nanyang Technological University, Singapore)

Conference Organizers

Anthony Atala

Professor and Chair of Urology,
Wake Forest School of Medicine
Director, Wake Forest Institute for Regenerative Medicine

Roger Narayan

Professor, Department of Biomedical Engineering,
North Carolina State University
Associate Editor, *Applied Physics Reviews*

For more information on abstract submission, registration or sponsorship opportunities please visit our website: horizons.aip.org/3d_bioprinting.htm or contact us at: apr-journalmanager@aip.org