

Webinar

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FREE WEBINAR

Light-Assisted 3-D Bioprinting of Micro- and Nanoscale Functional Biomaterials

Join us for a Webinar on Thursday, March 19, 2015

Femtosecond laser nanoprinting and projection 3-D bioprinting techniques allow the direct writing of 3-D designer scaffolds used for tissue engineering and regenerative medicine. These 3-D biomaterials are functionalized with precise control of micro-architecture, mechanical (e.g. stiffness and Poisson's ratio), chemical and biological properties. Design, fabrication, and experimental results will be discussed. Such functional biomaterials allow us to investigate cell-microenvironment interactions at the nano- and microscale in response to integrated physical and chemical stimuli. From these fundamental studies we can create both in-vitro and in-vivo tissue models for precision tissue engineering and regenerative medicine.

Dr. Shaochen Chen is a professor in the NanoEngineering and Bioengineering departments at the University of California, San Diego. He also directs the Biomaterials and Tissue Engineering Center at UCSD. From 2001 to 2010 Chen was a professor and a Pearlie D. Henderson Centennial Endowed Faculty Fellow in Engineering in the Mechanical Engineering Department at the University of Texas at Austin. Between 2008 and 2010, he served as the program director for the Nanomanufacturing Program in the National Science Foundation. Chen's primary research interests include biomaterials and bioprinting, nanomanufacturing, regenerative medicine, tissue engineering, lasers and nanophotonics. He has published 101 papers in top journals such as Nature Communications, Nature, Nature Materials, Nano Letters, Biomaterials and Advanced Materials, as well as 12 books and book chapters.

He is a recipient of the CAREER award from the National Science Foundation and the Young Investigator award from the Office of Naval Research. Chen is a fellow of the AAAS, American Institute for Medical and Biological Engineering, American Society of Mechanical Engineers, International Society for NanoManufacturing and SPIE.

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Date: Thursday, March 19, 2015
Time: 1 p.m. EST

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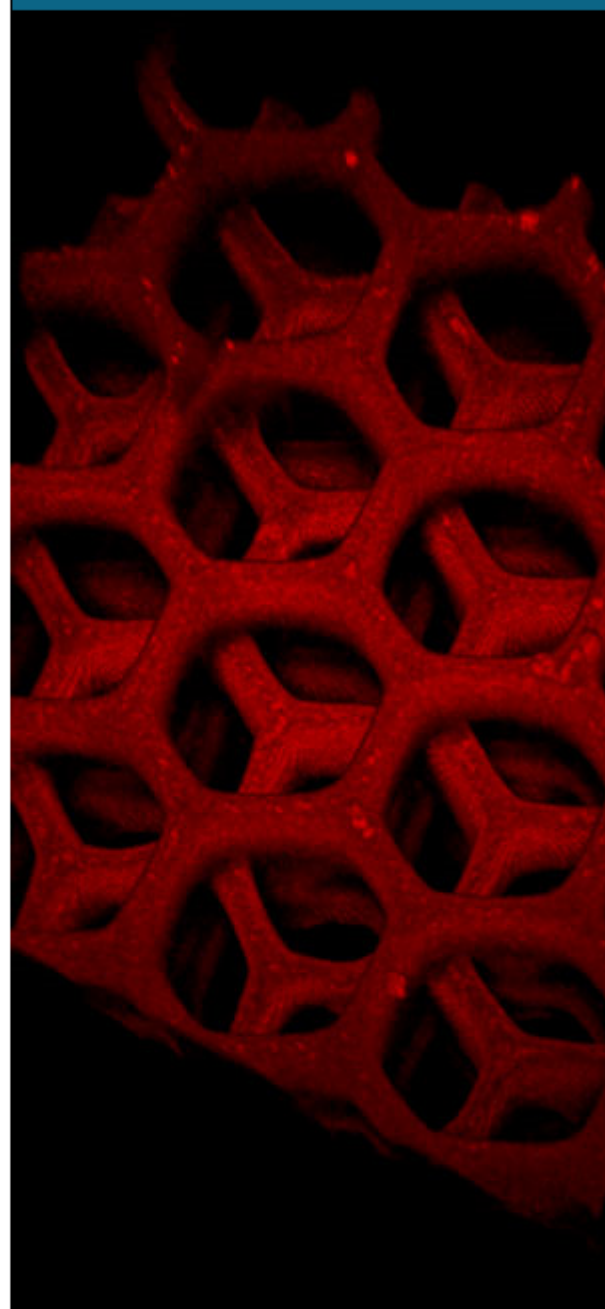
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