

# Indo-US Bilateral Workshop on 3D Printing: Solutions for Medical Devices

August 16-18, 2018

Venue: SASTRA Deemed University, Thanjavur

## FOCUS OF THE WORKSHOP

3D printing has emerged as a new-age technology in the healthcare sector that offers the ability for rapid customization of implants with high precision and enables mass production of patient-specific implants for personalized treatment, as well as the development of anatomical models for academic purposes. 3D printing offers several unique benefits in the biomedical field that include rapid customization, cost-effectiveness, high productivity and high precision. This Workshop mainly aims to introduce and train people from diverse backgrounds in 3D printing solutions for replicating complex tissue/organ structures with identical shape, texture and material properties for personalized medical implants. The Workshop also strives to create awareness on 3D printing options for production of personalized implants and prostheses. The Workshop will provide a common platform for researchers, academicians, and manufacturers in the healthcare sector to explore this emerging technique for fabricating customized orthopaedic implants with complex architecture within a few hours. The Workshop also involves training sessions for demonstrating the translation of X-ray, micro-CT and MRI scan images into the printable standard triangular (.stl) files towards the production of clinically meaningful medical products.

The Workshop will be followed by a one day hand-on training in 3-D printing at SASTRA – TBI on August 18, 2018

## CONVENORS

<b>S. Swaminathan</b> Director, Centre for Nanotechnology & Advanced Biomaterials SASTRA Deemed University Thanjavur 613401 Tamil Nadu, India	<b>Sangamesh G. Kumbar</b> Associate Professor Dept. of Orthopaedic Surgery Dept. of Biomedical Engineering University of Connecticut Farmington, CT 06030, USA
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## SPEAKERS

- **Dr. V. Anand Naik**  
Medanta Medicity, India
- **Dr. Anuradha Subramaniam**  
SASTRA Deemed University, India
- **Dr. Ashish Indani**  
Medical Devices & Life Sciences Platforms, TCS, India
- **Dr. Bin Duan**  
University of Nebraska Medical Centre, USA
- **Dr. Divya Mehrotra**  
King George's Medical University, India
- **Dr. Falguni Pati**  
Indian Institute of Technology, Hyderabad, India
- **Prof. James Yoo**  
Wake Forest Institute for Regenerative Medicine, USA
- **Prof. Justin Brown**  
The Pennsylvania State University, USA
- **Dr. Linda K. Molnar**  
National Science Foundation, USA
- **Dr. Pallab Datta**  
Indian Institute of Engg. Science and Technology, India
- **Mr. Rajiv Bajaj**  
Managing Director – India, Stratasys
- **Dr. Y. Ravi Kumar**  
National Institute of Technology, Warangal, India
- **Prof. Sangamesh G. Kumbar**  
University of Connecticut, USA
- **Dr. Sanjeev Kumar Mahto**  
Indian Institute of Technology – BHU, India
- **Dr. Santanu Dhara**  
Indian Institute of Technology, Kharagpur, India
- **Dr. Sourabh Ghosh**  
Indian Institute of Technology, New Delhi, India

	Registration	Accommodation
Workshop & Training	Rs 5,000 + 18% GST	Rs 1,500

Interested participants can register at <http://sas.sastra.edu/indo-us-workshop.php>. Last date for registration: July 31, 2018.

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