IIT Bombay Hosts
International Virtual Workshop
3DLitho - 2021

02 Sept 2021
10 am - 5:15 pm
IST

3D Laser Lithography for Fabricating Nano and Microstructures

In this workshop, participants will get to hear about the cutting edge research from experts in the field of lithography and also get a demonstration of the 3D laser lithography situated in BSBE department at IIT Bombay. These sessions will provide a strong first impression of what is possible with the 3D nano and microfabrication technology.

Program Schedule

10.00 – 10.15 am
Introductory Remarks

10.15 – 11.00 am
Advanced processing of materials using Direct Laser Writing

11.05 – 11.35 am
Free standing 2D/3D nanostructures fabrication using Femto-second Laser Lithography

11.40 – 12.10 pm
Static and Dynamic Characterisation of micro components using MSA 500

12.15 - 12.45 pm
An Introduction to Nanoimprint Lithography Facility at IIT Bombay

12.50 – 1.15 pm
3D Laser Lithography for Biological Applications

---------- Lunch Break ----------

2.30 – 3.30 pm
Two-photon polymerization based on Nanoscribe's PPGT system as a 3D microfabrication tool for Life Science, Microfluidics, Metamaterials, and Microoptics

3.30 -4.30 pm
Live demonstration of the print process using a Nanoscribe PPGT2: From the print job preparation to the printed part

4.30 – 5.00 pm
Demonstration of IITB 3D Laser Lithography Facility

5.00– 5.15 pm
Vote of thanks

Sept 2

10.00AM-5.15PM
(IST)

Organising Committee :

Prof. Prakriti Tayalia

Dr. Mamatha M. Pillai

Ms. Saranya Ajesh

Organised by
Dept. of Biosciences & Bioengineering
IIT Bombay, India

Distinguished Speakers

Introductory Remarks

PROF. MILIND D. ATREY //

DEAN (Research & Development)

IIT Bombay, India

PROF. CLEBER RENATO MENDONCA//

Advanced processing of materials using Direct Laser Writing

UNIVERSITY OF SAO PAULO, BRAZIL

PROF. SHOBHA SHUKLA//

Free standing 2D/3D nanostructures fabrication using Femto-second Laser Lithography

IIT BOMBAY, INDIA

PROF. PRASANNA GANDHI//

Static and Dynamic Characterization of micro components using MSA 500

IIT BOMBAY, INDIA

PROF. DEBJANI PAUL//

An Introduction to the Nanoimprint Lithography Facility at IIT Bombay

IIT BOMBAY, INDIA

LIVE DEMO ON 3D LASER LITHOGRAPHY BY DELEGATES FROM NANOSCRIBE, GERMANY

Distinguished Speakers

PROF. PRAKRITI TAYALIA//

3D Laser Lithography for Biological Applications

IIT BOMBAY, INDIA

DR. JULIAN OCHSMANN//

Two-photon polymerization based on Nanoscribe's system as a 3D microfabrication tool for Life Science, Microfluidics, Metamaterials and Microoptics

NANOSCRIBE, GERMANY

DR. AARON KOBLER//

Live demonstration of the print process using a Nanoscribe PPGT2: From the print job preparation to the printed part

NANOSCRIBE, GERMANY

IITB 3D LASER LITHOGRAPHY FACILITY//

Demonstration of IITB 3D Laser Lithography Facility

IIT BOMBAY, INDIA

Registration fee:
| Students/Research-scholars/Post-Docs: Rs. 200/- |
| Faculty: Rs. 500/- | Corporate: Rs. 1000/- |
For Foreign participants:
|Students/Research-scholars/Post-Docs: USD 10 |
| Faculty: USD 30 | Corporate: USD 50 |

E-certificate will be provided to the registered participants

Online Registration Form
https://forms.gle/ZVZCTdyh5sqBqUjm9

Link to the workshop will be sent to respective email ids

For any queries write to us:
lithography3d@gmail.com