

# 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

## 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*

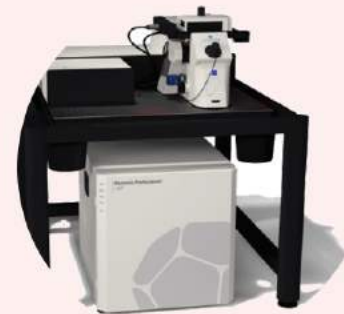
NANOSCRIBE, GERMANY



**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 |

Online Registration Form

<https://forms.gle/ZVZCTdyh5sq8oUjm9>

Link to the workshop will be sent to respective email ids

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