SHORT TERM CEP COURSE

On

Realizing Science and Applications of Micro- and Nano-machining

During
December 18-20, 2017
At Guest House Conference Hall, Gr. Floor, Jalavihar Guest House, IIT Bombay

Coordinated by

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International Expert Faculty

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Introduction

New products and technological developments in the area of strategic, automotive, aerospace, electronics, and bio-medical industries require complex and micro-and nano-sized features, significant miniaturization and high precision. In order to address these demands, micro- and nano-manufacturing has been continuously evolving in the recent years. It is envisioned that the research and development activities in this domain will not only facilitate the exponential growth in the global economy, but also aid in scientific understanding of materials processing at a fundamental level. This three-day program aims at understanding the role of micro- and nano-manufacturing in shaping the future needs in the context of Indian as well as global requirements.

In general, the topics which could include - Multi-scale science of micro- and nano-machining processes, Innovative applications of laser-based micro-machining, Micro-textured surfaces design and fabrication, Microfluidic-based devices developments, Micro-electric-discharge and associated processes and so on.

Course Outline

The program therefore will specifically focus on development of devices and processes using micro- and nano-machining for automotive, aerospace, electronics and bio-medical domains.
These aspects will be illustrated through lecture-cum-demonstration sessions. Concurrently, generating new and in-depth understanding of mechanics pertaining micro- and nano-machining processes through numerical modelling and simulations has been the major topic of interest all over the world. The state of the art on this front will be realized through expert lectures and follow up discussions. In general, the topics which could include - Multi-scale science of micro- and nano-machining processes, Innovative applications of laser-based micro-machining, Micro-textured surfaces design and fabrication, Microfluidic-based devices developments, Micro-electric-discharge and associated processes and so on.

**Prospective Participants**

Faculty members of engineering colleges and Ph.D. students. Scientists from R&D organizations working in the areas of device development. Industries engineers working in the area of precision and micro-engineering.

**Venue**

Guest House Conference Hall, Gr. Floor, Jalavihar Guest House, IIT Bombay.

**Program Cost**

Industry Participants: Rs. 17700/- (including 18 % GST); Academia participants: Rs. 14160/- (including 18 % GST); Govt. R&D Participants: Rs. 17700/- (including 18 % GST); Students: Rs. 4720/- (including 18 % GST)

The demand draft should be drawn in favour of “The Registrar, IIT Bombay- CEP Account” payable at Mumbai. No income tax is to be deducted at source from the course fee, as IIT Bombay is exempt from the same. The course fee includes course material, lunch and coffee/tea. For on-line payments, please click here for Bank Details.

**Accommodation**

A limited accommodation on twin sharing basis could be available in the Institute Guest house for participants on payment basis. There could be some accommodation in the IITB Hostel Guest Rooms. It is also possible to organize accommodation at nearby hotels on payment basis.

**Contacts**

Email: cep@iitb.ac.in, rsingh@iitb.ac.in, ssjoshi@iitb.ac.in; Phone: +91 22 2576 7060
REGISTRATION FORM

Three-day CEP Course on

Realizing Science and Applications of Micro- and Nano-machining

December 18 - 20, 2017

NAME (BLOCK LETTERS) : _______________________________________________

___________________________________________________

Gender: M / F

DESIGNATION : ________________________________________________________

ORGANIZATION: _______________________________________________________

MAILING ADDRESS : ____________________________________________________

______________________________________________________________________

______________________________________________________________________

TELEPHONE : ____________________ (O) ____________________ (R)

FAX: ____________________________ MOBILE: ____________________________

EMAIL : _____________________________________________________________

QUALIFICATIONS : _________ EXPERIENCE : _______ Yrs.

IIT Guest House accommodation required?* YES / NO

PAYMENT:  D.D. No.: ____________________ Dt. ____________________ Rs.

[Demand draft should be drawn in favour of "Registrar, IIT Bombay (CEP A/c)"]

Date: ____________________ Signature of Applicant

*Guest House bill to be paid directly by participant.

(PHOTOCOPY ADDITIONAL COPIES OF THIS FORM, IF NEEDED)
On-line Payment Transaction Details

Kindly arrange to provide the following transaction details, if the course fee is paid on-line:

1. Name of the Course Participant
2. Transaction No.
3. Date of Transaction
4. Amount
5. Bank & Branch Name from where transfer is done

Please email the above details to: cep@iitb.ac.in