Registration Form

One-Day Course on

The Atom Probe

9th January, 2012

Last date for registration: 20th December 2011

Sir,
I want to attend the one-day workshop on Atom Probe Tomography. Kindly register me. Following are my details:

Name :
Designation :
Organization :
Address :

Email :
Tel. :
Accommodation required: Yes/No

Please send the completed registration form by e-mail to

Prof. B.S. Murty
Email: murty@iitm.ac.in
Ph.: 044-22574754

Dr. Srinivasa R. Bakshi
Email: sbakshi@iitm.ac.in
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Department of Metallurgical and Materials Engineering
Indian Institute of Technology Madras
Chennai, India – 600036

ONE-DAY WORKSHOP ON

ATOM PROBE TOMOGRAPHY

Organized by

Department of Metallurgical and Materials Engineering, IIT Madras

and

Combinatorial Sciences and Materials Informatics Collaboratory (CoSMIC), Iowa State University, USA

In association with

Defence Metallurgical Research Laboratory, Hyderabad

Convenor: **Prof. B.S. Murty**

Co-Convenor: **Dr. Srinivasa Rao Bakshi**

Date: **9th January, 2012**

Venue : **Central Lecture Theatre, IIT Madras**

Sponsored by

AMETEK Instruments India Pvt. Ltd.

Atom Probe Tomography

Atom Probe Tomography (APT or 3DAP for Three-dimensional Atom Probe) is the only material analysis technique offering extensive capabilities for both **3D imaging** and **chemical composition measurements at the atomic scale**. Since its early developments, 3D Atom Probe has contributed to major advances in materials science. Some applications of the Atom Probe are listed below.

- Quantitative atomic scale 3D elemental mapping of chemical species in materials
- 3D analysis of precipitation strengthening in various alloys
- Interface composition analysis, grain boundary composition analysis
- Segregation analysis on atomic scale
- Diffusion studies
- Dopant distributions in semiconductors

Who should participate?

The workshop is aimed to provide fundamentals as well as advanced knowledge of the Atom Probe Tomography and its applications. The current understanding and status of elemental analysis and high resolution imaging in TEM will also be discussed. Research scholars in academic institutions and R&D laboratories working in the area of materials science and engineering are eligible to participate in this workshop.

List of Speakers

- Prof. S. Ranganathan, IISc, Bangalore
- Prof. Krishna Rajan, Iowa State University, USA
- Peter Clifton, CAMECA, France
- Prof. K. Chattopadhyay, IISc, Bangalore
- Dr. M. Vijayalakshmi, IGCAR, Kalpakkam
- Dr. G. K. Dey, BARC, Mumbai
- Dr. R Balamuralikrishnan, DMRL, Hyderabad
- Dr. R. Gopalan, ARCI, Hyderabad
- Dr. Chandan Srivastava, IISc, Bangalore
- Dr. Anirudha Biswas, BARC, Mumbai
- Prof. B. S. Murty, IIT Madras

Few Points

- *There is no registration fee*
- *Last date for registration:* ***Dec. 20, 2011***
- *Limited accommodation available on request*