

## Felicitation for Prof. P. Kesavan Nair

Participation is open to professionals from industries, national labs, faculty and students of academic institutions. The participants are requested to make their own accommodation arrangements. Payment can be made by DD/Cheque drawn in favour of "INDIAN INST OF METALS".

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**Please mail completed form with DD/Cheque to:**

**Dr. Ravi Kumar, N. V**

Convenor, AXTA 2013

Dept. Of Metallurgical & Materials Engg.,  
IIT Madras, Chennai 600036

URL: [www.mme.iitm.ac.in/nvrk/axta-2013.html](http://www.mme.iitm.ac.in/nvrk/axta-2013.html)



## Felicitation for Prof. P. Kesavan Nair

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## Felicitation for Prof. P. Kesavan Nair

### NATIONAL WORKSHOP ON ADVANCED X-RAY TECHNIQUES & APPLICATIONS (AXTA-2013)

**Date: 27<sup>th</sup> April, 2013**

*Organized by*

Department of Metallurgical and Materials Engg.,  
IIT Madras, Chennai 600036.

*In association with*

Indian Institute of Metals  
Chennai Chapter



**IIM**  
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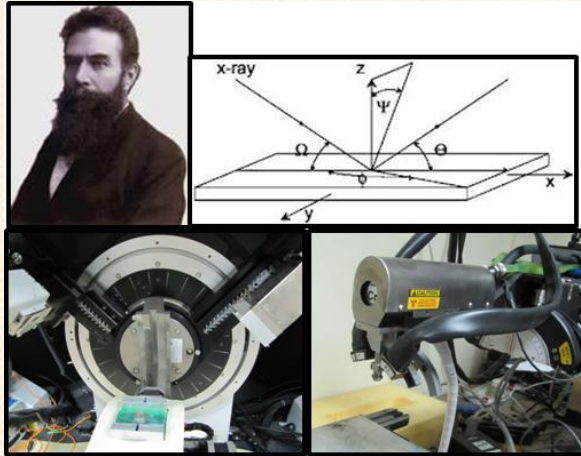
Venue:  
ICSR Auditorium  
Indian Institute of Technology - Madras  
Chennai – 600 036, INDIA.



## About the workshop

The discovery of the invisible, penetrating radiations termed as X-rays by W. C. Roentgen in 1895 was a remarkable discovery with wide applications for the society. Today's instruments using X-rays are ubiquitous and they are useful in various fields. The discovery of X-ray diffraction from crystals in 1912 by Max von Laue and the determination of crystal structures by W. L. Bragg & W. H. Bragg gave birth to X-ray crystallography. Advances in the instrumentation have made possible accurate measurements and today X-ray diffraction techniques are used for crystal structure determination, microstructure, texture analysis, failure analysis, residual stress measurement and in tomography as well.

Prof. P. Kesavan Nair was a faculty for nearly 40 years at IIT Madras and during his stay has made significant contribution to the development of Central XRD lab. The present workshop is being organized in his honour and to highlight various applications of X-ray diffraction techniques in characterization of materials and understand the latest developments in this area. The lectures from experts working in this area will be helpful for researchers in academia and industry and will help to expand their knowledge.



## Who should participate?

Practicing engineers, design engineers, R&D personnel, quality management personnel will benefit from this workshop. Students and faculty of science & engineering will also gain from this programme.

## Scope

- Novel techniques
- Residual stress analysis
- Thin films/ stress gradients
- Texture analysis
- Tomography
- Instrumental developments

## Invited speakers

Prof. Shrikant Lele, IIT BHU

Dr. V. S. Sarma, IIT Madras

Dr. Paramita Mukherjee, VECC, Kolkata

Dr. S. Suresh, BHEL, Trichy

Dr. Dillip Satapathy, IIT Madras

Prof. Krishnan Balasubramanian, IIT Madras

Dr. Jay Chakraborty, NML, Jamshedpur

Mr. R. Srinivasan, PANalytical India

Dr. Kesava Yellareddy, Bruker AXS Analytical Instruments Ltd.,

Mr. Robert Drake, Proto Manufacturing Ltd.

Great discoveries are made  
accidentally less often than the  
populace likes to think.

- Wilhelm Roentgen

## REGISTRATION

Academia and industrial participants: **Rs. 3000/-**

IIM Members: **Rs. 2500/-**

Student participants: **Rs. 1000/-**

(The fee includes registration kit, coffee, lunch and high-tea). Please send an email confirming your participation to [axta2013@gmail.com](mailto:axta2013@gmail.com) before 20<sup>th</sup> April 2013