



METALLON-16

One-Day National Seminar

on

ADVANCED STEELS FOR STRATEGIC APPLICATIONS (ASFSA-2015)

December 30, 2015

Venue: Institute Auditorium, MGIT, Gandipet, Hyderabad

Organized by

**Department of Metallurgical and Materials Engineering
MAHATMA GANDHI INSTITUTE OF TECHNOLOGY, Hyderabad
and
TR ANANTHARAMAN EDUCATION AND RESEARCH FOUNDATION**

In Association with

**International Advanced Research Centre for Powder Metallurgy and New Materials
Defence Metallurgical Research Laboratory
Mishra Dhatu Nigam Limited
Nuclear Fuel Complex
Regional Centre for Military Airworthiness (Materials), CEMILAC**

Supported by

Rachamalla Forgings Pvt. Ltd., Hyderabad

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Kalva Engineers Pvt. Ltd., Hyderabad

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The development of high performance steels is increasingly recognized as one of the key enabling technologies required for the advancement of aerospace, nuclear, defence, energy and automobile sectors. Though there are several challenges in the manufacturing of the high performance steels, India has made rapid strides in the development, processing and characterization leading to their application in critical components. Appropriate topics have been chosen to highlight some of the indigenous developments that have taken place in recent years.

The topics covered in this One-Day Seminar include development of high-performance ferritic-martensitic steels for nuclear reactors, austenitic steels for supercritical power plants, ultra high-strength steels for aerospace applications, corrosion and welding of advanced steels, manufacturing of clean steels, and nanomaterials and nanosteels.

Who should attend?

- Young Engineering Professionals, Scientists and Faculty Members in the Disciplines of Aeronautical Engineering, Metallurgical Engineering, Materials and Mechanical Engineering
- Senior faculty members for learning advances in related fields.
- Entrepreneurs and Heads of Advanced and Specialized Manufacturing and Fabrication Units and Centres
- Bachelors, Masters, and Ph.D. Students

Registration

Industries and R&D Centres :	Rs. 2000
Academia :	Rs. 1000
Masters and Ph.D students :	Rs. 500
Selected B.Tech Students* :	Free

*Selection at the discretion of the Organizing Committee

Registration Fee includes METALLON Kit, Lunch & Snacks

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REGISTRATION FORM

One-Day National Seminar
On

ADVANCED STEELS FOR STRATEGIC APPLICATIONS

I would like to participate in the Seminar
(for multiple registrations, use photocopies of this form)

Name :
Designation :
Organization :
Address :
.....
..... Phone :
E-mail :

Registration Fee details:

Amount :

Signature :

Payment can be made by Cheque / DD drawn in favour of **Convener, METALLON**

Completed Registration Forms should reach:

Shri PVS Lakshmi Narayana
Convener, METALLON-16
Department of Metallurgical and Materials Engineering
Mahatma Gandhi Institute of Technology
Gandipet, Hyderabad 500 075
Phone: +91 9949590688
E-mail: laxmanpv1@gmail.com

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ASFSA -2015

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National Seminar on “Advanced Steels for Strategic Applications” (AFSFA-2015)

Venue: Institute Auditorium, MGIT

December 30, 2015 Wednesday

PROGRAM

09:45 h Inauguration of National Seminar

Professor C. Suryanarayana, FASM, FIMMM
Department of Mechanical and Aerospace Engineering, University of Central Florida, USA
Thomas Jefferson Science Fellow, US Department of State

10:45 h Hi-Tea

TECHNICAL PROGRAM

11:15 h SESSION I

1. “Development of High Performance Ferritic- Martensitic Steels for Fast and Fusion Reactors”
Dr. K Bhanu Sankara Rao, FASM, FIIM, FNAE, FASc
Ministry of Steel Chair Professor, MGIT, Hyderabad
2. “Development of Austenitic Stainless Steels for Ultra Super Critical Power Plants”,
Shri. S K Jha, General Manager, Nuclear Fuel Complex, Hyderabad.
3. “Insights into the Corrosion of Stainless Steels”
Dr. Swathi Ghosh Acharya, Asst. Professor, School of Engineering Sciences and Technology,
University of Hyderabad, Hyderabad

13:00 h LUNCH

14:00 h SESSION II

4. “Development of Ultra High Strength Steels for Aerospace applications”
Dr. G. Malakondaiah, FNAE, FIIM
Ministry of Steel Chair Professor, NIT, Warangal.
5. “Welding of Advanced Steels for Defence and Space Applications”
Dr. G. Madhusudhan Reddy, FASM, FNAE, FIIM, FIW
Scientist ‘H’, Head, Metal Joining Group, DMRL, Hyderabad.
6. “Melting and Processing of Special Steels”
Shri S. Narahari Prasad, AGM, MIDHANI, Hyderabad.

15:30 h Tea

16:00 h SESSION III

7. “Nanomaterials and Nanosteels”
Professor C. Suryanarayana, FASM, FIMMM
Department of Mechanical and Aerospace Engineering, University of Central Florida, USA

16:40 h GURU PUJA