

Who should attend ?

Engineers / Metallurgists from industries and plants, faculty from engineering colleges, research scholars from educational institutions, and those who would like to have a first hand exposure to all aspects of stainless steels will benefit by attending this course.

Address for communication

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Contact for more details

Shri T. D. Sundarakshan

IIM HRD Centre (KC)

New No.3, First Floor
Potters Street, Saidapet
Chennai 600015, Tamil Nadu
Mobile: 94445 63160 / 044 - 4851 6160
Email: iimhrdc15@gmail.com

Day-1 – March 9, 2018

08.30-09.15	Registration
09.15 -10.00	Keynote Lecture
10.00-10.30	Tea/Coffee Break
10.30-12.45	Technical Session-I (i) Basics of Stainless steels (ii) Physical Metallurgy of Stainless steels (iii) Manufacturing of Stainless steel products
12.45-13.45	Lunch Break
13.45-16.00	Technical Session-II (i) Melting & Refining of Stainless steels (ii) Hot and Cold Rolling of Stainless steels (iii) Manufacture of Tubular Products of Stainless steels
16.00-16.15	Tea Break
16.15-18.30	Technical Session-III (i) Fracture and Fatigue Behaviour of Stainless steels (ii) Welding Technology and Metallurgy of Stainless steels (iii) Corrosion Aspects of Stainless steels

Day 2 - March 10, 2018

09.00-11.15	Technical Session-IV (i) Casting and Forgings of Stainless steels (ii) Design of Stainless steels and Recent Advances (iii) High temperature properties of Stainless steels
11.15-11.30	Tea Break
11.30-13.00	Technical Session-V (i) Special Stainless steels for Industrial Applications (ii) Claddings on Stainless Steels for High Temperature Applications
13.00-14.00	Lunch Break
14.00-16.15	Technical Session-VI (i) Quality Assurance of Stainless steel Components (ii) Applications of Stainless steels for Automotive Industry (iii) Failures of Stainless steel Components in Power Plants
16.15-16.30	Tea Break
16.30	Concluding Session

Course on Stainless Steel (CoSS-2018)

*March 09 & 10, 2018
IC & SR Auditorium,
IIT Madras, Chennai*

Coordinators

Dr. R. Divakar

Dr. V. Karthik

IGCAR, Kalpakkam

Chairman

Prof. M. Kamaraj

IIT Madras

Co-Chairman

Dr. Rani P. George

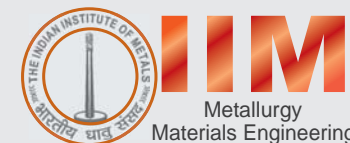
IGCAR, Kalpakkam

Organized by

IIM-Human Resources
Development Centre
(Kalpakkam-Chennai)

Co-organised by

IIM Kalpakkam Chapter & IIT Madras



The Indian Institute of Metals (IIM)

The Indian Institute of Metals (IIM) is an association of professional metallurgists in India founded in 1947. The main objective of IIM is to promote the study and practice of science and technology of metals and alloys and protecting the interests of metallurgists. Today, the Institute has more than 10,000 members and carries out its activities through three divisions and 52 Chapters spanning the country. The main activities are organising national and international technical conferences, carrying out special research programs, bringing out technical and informative publications, coordinating visits of scientists under collaborative programmes and conducting qualifying examinations for practising non-metallurgists. The Institute is recognized and supported by the Government of India through the Ministry of Steel and the Institute has also instituted several awards and honours for metallurgists for their distinctions each year.

IIM Human Resources Development Centre (IIM HRDC-KC)

The IIM-HRDC-KC was started in 2007 with the objective to act as a bridge between IIM and Industry for human resources development through training courses, consultancy, web portals, books, etc., to act as a centre for learning for career advancement in Metallurgical and Materials Engineering for students, to publish books / monographs and to promote greater interaction between Chapters of IIM in the Southern region. Dr. Baldev Raj, Director, NIAS, Bangalore is the Chairman, Dr. U. Kamachi Mudali, Chairman & Chief Executive, HWB, DAE, Mumbai as Convener, Prof. B. S. Murty, Head, Department of Metallurgical and Materials Engineering, IIT Madras as Co-Convener and Prof. M. Kamaraj, Department of Metallurgical and Materials Engineering, IIT Madras as Treasurer constitute the Management Committee, along with members representing all fourteen Chapters of IIM in the Southern region. IIM HRDC-KC has organized many courses of interest to industries in association with IIM Chapters in Southern region and other Professional Associations.

About the Course

The versatile but complex alloy of stainless steel, which is second in production only to aluminium, is indeed a marvel even though more than a century has passed since its discovery. More than 150 new grades of stainless steels with good strength, heat and corrosion resistance, formability, aesthetic appeal and low maintenance have been developed. Stainless steels are used for critical service applications in petro-chemical, fossil fuel and nuclear industries.

The successful utility of stainless steels is mainly due to continued evolution in its various aspects through alloy design for improved corrosion resistance, mechanical properties, weldability and formability, which are important areas for designing and manufacturing engineering components.

Stainless Steels are classified according to their microstructure as ferritic, martensitic, austenitic or duplex (austenitic and ferritic). The microstructure significantly affects the mechanical properties, corrosion, fabrication route or welding procedure.

Although, its corrosion resistance is excellent, stainless steels are subjected to several forms of localised corrosive attack. The prevention of localised corrosive attack is a critical concern when selecting base metal, filler metal and welding procedures, and when fabricating components of stainless steels.

Over the years, several codes have been developed to ensure proper design and achieve expected service life. Engineers and research scientists need to optimally utilise this resourceful material to better use the alloy for various applications.

Towards achieving this, a course encompassing all the above aspects, to be covered in two days of deliberations, with expertise drawn from industries, research centres and academia has been designed. The topics to be covered are chosen to convey in-depth understanding of the choice of alloy, performance and manufacturing areas with reference to stainless steels. Experienced scientists and engineers have been selected as faculty for the course from IGCAR, IITs, Stainless Steel industries, BHEL, etc.

Registration Form

Course on Stainless Steels

09 & 10 March 2018, IIT Madras, Chennai

Name : _____
Affiliation : _____
Contact Details : _____
Office : _____
Tel. : _____
Fax : _____
Mobile : _____
Email : _____

Signature:Date.

Bank Name.....

Cheque / DD No: _____

Dated: _____ for Rs. _____

Course Fee per Participant:

Industry Personnel	Rs. 8,000
Personnel from Govt. Institutions	Rs. 6,000
Faculty from University/College	Rs. 6,000
Full time Research Scholars/Students	Rs. 2,000

In case of online transfer, scanned copy / digital output of the proof of e-transaction should be emailed to iimhrdc15@gmail.com, along with the registration form. Details of online transfer are given below.

Name of the Bank:

State Bank of India, IIT Madras Campus,
Chennai 600 036, Tamilnadu

Name of Account: IIM Human Resources
Development Centre

Account No.: 10503337031

IFS Code: SBIN001055

Registration

Research Scholars / Students should forward the registration form through their HOD or obtain a bonafide certificate from Head of the Department.

D/D or cheque should be drawn in favour of "IIM HRDC" payable at Chennai and sent to the following address along with the registration form on or before **31st January 2018**.