

Sponsorship

The event can be sponsored by donating Rs.25,000/-. The sponsorship entitles mention in the souvenir and hall, exhibition stall and free registration for three delegates with registration kit, breakfast, lunch & evening tea.

Souvenir

A souvenir will be brought out on this occasion. It will contain the abstracts of the papers and advertisements. The tariff for advertisements in the souvenir is as below:

Back Cover	Rs.8,000/-
Inside Cover Pages	Rs.6,000/-
Full Page	Rs.5,000/-
Half Page	Rs.3,000/-

Exhibition & Presentation by Exhibitors

Concurrent with the workshop an exhibition is planned for the display of products & processes. The exhibitors shall be provided a stall of 6' by 4' with electrical connections and tables for the display of the product and processes of the company that will provide a platform for the growth of 3D printing & welding industries.

Exhibition tariff:

Rs. 15000 with free registration for 3 delegates, one page advertisement in the souvenir and 10 minutes slot for the presentation with certificate of participation.

Registration charges for Participants

Category	Fees (Rs.)
SFA / IIW / ASM Members & Faculty	1500
Participants from Industries & Non-Members	3500
Student Participants	500

This includes registration kits, breakfast, lunch and evening tea and a copy of the souvenir with abstracts.

Payment may be made through DD / Cheque drawn in favor of 'R&D PHCET.

RTGS / NEFT / IFSC Code Details:

Name of the Account Holder: **PHCET Research and Development Account**

Name of the bank: **CANARA BANK**

Branch: **Khair, Patalganga**

Account No. **52142200111189**

RTGS / NEFT / IFSC Code: **CNRB0015214**

Patrons

Dr. K.M. Vasudevan Pillai, Chairman & CEO, MES
Dr.G. Madhusudan Reddy, Director DMRL Hyderabad
Mr.P.T. Rojatkhar, Director NMRL Mumbai
Dr.Ashok Khade, CMD Das Offshore Pvt.Ltd.Mumbai
Mr.Maruti Pawar, MD Amprtronics Techno Pvt. Ltd.Mumbai
Dr.Badri Prasad, CMD Furnace Fabrica Mumbai
Mr. V V Kamath MD Fronius India Pvt. Ltd.Pune
Mr. T.S. Kathayat, President & COO, Welspun Corp. Ltd.
Mr.Chander Girotra, CMD Weldwell Speciality Pvt. Ltd.
Mr. Anand V. Rao, ED, ICON Labs Sanpada, Mumbai

Advisory Committee

Dr. Priam Pillai, COO, MES
Dr. Franav Pillai, DCEO, MES
Prof. M. Pillai, Head, Innovation, Research Centre, PHCET Rasayani
Dr. Lata Menon, DCEO, Pillai HOC Educational Campus, Rasayani
Dr. J.W. Bakal Principal, PHCET Rasayani
Mr. Sudhakar Bonde, Chairman, ASM International, India Chapter
Mr.Ashok Malage, Secretary IIW- India Mumbai Branch
Mr. Shrirang Patvardhan, nu-tek solutions
Mr. Samar Gupta, Managing Director, OM Heat Treat Pvt. Ltd.
Dr.A.K.Sinha, Vice Chancellor, CSMU Maharashtra
Dr.Guruprasad Rao, Director Imaginarium Pvt. Ltd. Mumbai
Dr.Debdatta Ratna, Sc.F, NMRL Ambernath
Dr. Gaurav Rao, Sc. F. NMRL, Ambernath
Mr.Amar Mange, PHCET Polytechnic Section
Dr. Clara Fernandes, BCP, Kalina Santacruz

Local Organizing Committee

Dr. G.V.Patil, HOD, Mech Engg, PHCET Rasayani Mr.
Raju Narwade, HOD, Civil Engg. PHCET Rasayani
Ms. Pranita Chavan, HOD, Electrical Engg. PHCET Rasayani
Dr. Mansi Subhedar, HOD, Electronics & Telecom. PHCET Rasayani.
Dr. M.D. Nadar, Professor, Mech Engg. PHCET Rasayani
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Mr.Saurabh Sirsikar, AP Automobile Engg. PHCET Rasayani
Mr.Sunilsing Rajput, AP Mech. Engg. PHCET Rasayani
Mr.M.Jadhav, AP Mech.Engg. PHCET Rasayani
Mr. Hardik Panchal, PHCET Rasayani
Mr. Aniket Dumbre, PHCET Rasayani

Address for Correspondence :

Dr. R.C. Prasad

Convener & Vice Chairman SFA Mumbai
Chapter Retd.Professor IIT Bombay &
President IIC @ PHCET & Professor
Department of Mechanical Engineering, PHCET Rasayani
Mobile :- 09869236812 / 8433883165
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www.sfa.mes.ac.in

TWO DAYS EDUCATIONAL TRAINING CONFERENCE & EXHIBITION On

“CHALLENGES AND OPPORTUNITIES IN DIGITAL DIRECT MANUFACTURING : ADDITIVE MANUFACTURING / 3D PRINTING & WELDING 4.0”

Date: April 29-30, 2022

Venue: Conclave, PHCET Rasayani

Organized by



Supported by



SFA Mumbai Chapter

The IPA-MSB's Bombay College
of Pharmacy, Autonomous



Invitation

The Institute Innovation Council at the Mahatma Education Society's PHCET Rasayani is inviting you to attend the two days Education Training Conference and exhibition that is being organized in association with SFA Mumbai Chapter, IIW Mumbai Chapter & ASM International India Chapter on "Challenges And Opportunities in Digital Direct Manufacturing : Additive Manufacturing / 3D Printing & Welding 4.0

About the Workshop

Industries today are shifting towards smart digital direct manufacturing to cut cost and time of production. They are using automation to be competitive in the local & global market. Additive manufacturing / 3D Printing and Welding

4.0 have created a new business ecosystem where the entire production process is digitized and documented.

Welding procedures like joint geometry, consumables, shielding gas, weld speed are digitized for the computer to take decision and control software tracks welding parameters like current, voltage, heat input and robot operates as per virtual welding software.

Both the additive manufacturing and Welding 4.0 processes build parts by joining layer upon layer from a CAD file. Each layer melts and welds to the previous layer to create a 3D structure. Additive manufacturing cuts 3D CAD model into 2D slices and converts it into a 3D physical model using printers. For metals additive manufacturing uses electron beam or arc welding processes to develop layer upon layer deposition of metal powder or wire based filler metals. In addition to digitization skill the knowledge of metallurgy, metallography, fractography, NDT, mechanical testing and different parameters that affect structure-properties and the quality and integrity of layered components needs to be updated. Industries are looking for trained and skilled manpower. Professional training in this area is needed for gainful employment as the degree alone can not be enough to get a job.

This two days workshop will provide an interdisciplinary platform to discuss research, innovations, trends, concerns and practical challenges to meet the requirements of Industry 4.0 through Education 4.0.

Workshop Objectives

In the light of above and the worldwide interest, this two days Educational Training and Exhibition Conference on "CHALLENGES & OPPORTUNITIES IN DIGITAL DIRECT MANUFACTURING : ADDITIVE MANUFACTURING / 3D PRINTING & WELDING 4.0 " is

being organized with technical focus on :

- **Basic principles of Weld 4.0, Additive manufacturing / 3D Printing**
- **Applications of 3D Printing for Pharmaceutical and Bio-medical industries**
- **Process parameters that affect their Quality & Integrity**
- **Process Development & Optimization**
- **Defects of layered structure and their detection using NDT, Metallography & Fractography**
- **Mechanical & Metallurgical Testing of layered structure**
- **Damage tolerant design & recent developments in Digital direct manufacturing**
- **Applications of Fracture Mechanics & Evolution of Failure Assessment Diagram based on K1c, K1d, CTOD, Fatigue crack growth**
- **Failure modes & Effects analysis (FMEA)**
- **Modeling the processes for desired properties and performance**

REGISTRATION FORM

Two Days Education Training and Exhibition
Conference
on

**" CHALLENGES & OPPORTUNITIES IN
DIGITAL DIRECT MANUFACTURING:
ADDITIVE MANUFACTURING / 3D
PRINTING & WELDING 4.0 "**

NAME (PRINT):

DESIGNATION :

ORGANISATION :

MAILING ADDRESS :

TEL: _____(O) _____(R)

FAX: _____ MOBILE: _____

EMAIL: _____

Bank Details for Payment towards sponsorship / participation DD / Cheque No. _____ drawn in favor of 'PHCET Research & Development Account' are given below .

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Date:

Signature