

INFORMATION BROCHURE



The Institution of Engineers (India)

A CENTURY OF SERVICE TO THE NATION

THIRTY FIFTH
NATIONAL CONVENTION OF PRODUCTION ENGINEERS
and
NATIONAL CONFERENCE
ON

Emerging Technologies for Sustainable Manufacturing

May 23-24, 2020

Organized by

The Institution of Engineers (India)

Durgapur Local Centre

Under the Aegis of

PRODUCTION ENGINEERING DIVISION BOARD, IEI

Venue:

Visvesvaraya Auditorium

Nehru Avenue, B-Zone, Durgapur-713205

E-mail: durgapurlc@ieindia.org, ieidurgapur@gmail.com

Website: www.ieidurgapurlc.org

THE INSTITUTION OF ENGINEERS (INDIA)

The Institution of Engineers (India) or IEI is the largest multidisciplinary professional body that encompasses 15 engineering disciplines and gives engineers a global platform for sharing professional interest. IEI has membership strength of above 0.8 million. Established in 1920, with its headquarter at 8 Gokhale Road, Kolkata-700020, IEI has served the engineering fraternity close to a century. During this period of time, IEI has been inextricably linked with the history of modern-day engineering.

In 1935, IEI was incorporated by Royal Charter and remains the only professional body in India which has been accorded this honour. Today, its quest for professional excellence has given it a place of pride in almost every prestigious and relevant organization across the globe. It provides a vast array of technical, professional and supporting services to the Government, Industries, Academia and the Engineering fraternity, operating through its 125 Centres located across the country and 6 overseas chapters. Besides, IEI has bilateral agreements with about 31 international bodies and membership of another 8 international bodies of the developed nations across the globe.

Being recognized as a Scientific and Research Organisation (SIRO) by the Department of Scientific and Industrial Research, Ministry of Science and Technology, Government of India, IEI promotes the cause of research and development by providing Grant-in-Aid support to undergraduate, post graduate students and PhD Research Scholars of Engineering Institutions and Universities.

IEI conducts Section A & B Examinations in various engineering disciplines (popularly known as AMIE examination), the successful completion of which is recognized as equivalent to Degree in appropriate field of Engineering of recognized Universities of India by the Ministry of Human Resources Development, Government of India. Every year large number of candidates appear for these exams.

IEI in collaboration with Springer regularly publishes peer-reviewed international journal in five series, namely, Series A, Series B, Series C, Series D and Series E covering fifteen engineering disciplines. <https://www.ieindia.org>

DURGAPUR LOCAL CENTRE OF THE INSTITUTION OF ENGINEERS (INDIA)

The IEI, Durgapur Local Centre is 59 years Centre of IEI in the Industrial Hub of West Bengal & Eastern India having more than 2500 Professional Engineers as Corporate Members. It has earned its credit by organizing various technical programmes in association with organizations like NIT-Durgapur, CSIR-CMERI, SAIL, NPTI (ER), ONGC, ESSAR oil, JSPL, RINL and many other National reputed Institutions and awarded the Best Centre of IEI in the years 2003-04, 2015-16 & 2016-17 & 2018-19.

<http://www.ieidurgapurlc.org>

OBJECTIVES OF THE NATIONAL CONVENTION

Sustainable manufacturing is the creation of manufactured products through economically-sound processes that minimize negative environmental impacts while conserving energy and natural resources. Sustainable manufacturing also enhances employee, community and product safety.

Successful manufacturing organizations recognize that environmental responsibility is not only good for business, but also becoming an integral part of the way product is marketed, purchased and operated. Hence, it is important to consider sustainability at all levels of the product life cycle since inception to output. Sustainable manufacturing may be defined as a system that integrates product and process design issues with issues of manufacturing, planning and control in such a manner as to identify, quantify, assess, and manage the flow of environmental waste with the goal of ultimately reducing the environmental impact to that of the self-recovery capability of the earth.

The objective of the Conference is to identify and analyze the different scopes for implementation of advanced technologies and practices for manufacturing sustainability in Engineering Industries.

THEME ASSOCIATED SUB THEME OF THE NATIONAL CONVENTION

Theme : *Emerging Technologies for Sustainable Manufacturing*

There will be

- 1. The state of the Art Lectures**
- 2. F W Taylor Memorial Lecture and G C Sen Memorial Lecture**
- 3. Felicitation of Eminent Production Engineering Personalities and Presentation of IEI Young Engineers Awards**
- 4. Best Paper Award and Best Presenter [Among the research publications /case Studies/Poster Presentation] Award**

Sub-Theme

- **Engineering and Society**
- **Emerging Technologies for Sustainable Manufacturing**
 - Sustainable Industrial Development:
 - Manufacturing Environmental Performance, Technology and Production Perspectives
 - Greening of the metal working industries
 - Sustainable manufacturing processes and Process Optimizations
 - Advancements in metal fabrication , Machining , Casting and Forging
 - Additive manufacturing, 3-D Printing and it's applications
 - Non Conventional Manufacturing & Processes
 - Materials Development for Manufacturing for sustainability
 - Resources Mobilization & Techniques in Industries
 - Industry 4.0 and IoT for Modern Industries
 - Waste Management and Re-Use in Manufacturing industries
 - TPM, TQM & it's need
 - Inspection & quality Control Procedures and Techniques
 - Supply Chain Management
 - Renewable Energy for sustainability
 - R&D in Advance Manufacturing

- Role , Rules & Policies of Govt. in Manufacturing for sustainability
- Safety , Health & Environment in Industry
- Manufacturing / Production / Maintenance Case Studies
- Special Presentation for Students (Summer Internship Case Studies) with Poster

▪ **Integration of Technologies**

Confirmed Key Speakers of the Programme

- *Sh. Sankar Chakravorty, Director- National Productivity Council*
- *Dr. Nagahanumaiah, Director, CMTI, Bengaluru*
- *Dr. Ranjan Sen , Former Chief Scientist ,CSIR – CMERI*
- *Prof (Dr) Pradip Kumar Ray, Industrial Engg & Management, IIT-Kharagpur*
- *Dr. L. N. Pattanaik, Department of Production Engineering, BIT- Mesra*

CALL FOR PAPERS

Paper based on original work reporting innovations, plans for developments, observations, findings, critical survey, summer training studies and case studies are invited for discussion in the Conference. The paper should be related to the theme of the Conference but need not be limited to the subthemes. For further details, please follow the link [https://www.ieindia.org/webui/IEI-Activities.aspx#Call Papers](https://www.ieindia.org/webui/IEI-Activities.aspx#Call_Papers).

REGISTRATION

Corresponding/presenting author(s) have to register themselves for the ‘Thirty-Five National Convention of Production Engineers’, without which the paper will not be considered for presentation.

Important Dates

Last date of registration & Paper (including Case Studies) submission: **22/04/2019**

Dates of Conference: May- 23-24, 2020 (Saturday & Sunday)

Registration Fees:

Registration of delegates should be made well in advance by remitting the registration fees as indicated below along with duly filled in registration form.

Category	Amount, INR	Total Incl.GST
IEI/ Corporate Members	500	590.00
Non Members, Faculty, Scientist, Researchers, Staff of Academic/Research Institution	1000	1180.00
Industry nominated Person	3000	3540.00
Authors and paper presenter	500	590.00
Students (with Valid ID Card)	400	472.00

+ ADDITIONAL 18% GST.

TRAVEL AND ACCOMMODATION

Durgapur is 160 km from Kolkata. It is well connected by Road and RAIL. **Durgapur Airport is having direct flight from New Delhi, Mumbai, Hyderabad and Chennai.**

Please contact the organizers for accommodation in the Guest House where limited accommodation options are available. There several good Hotels are available near the IEI, Durgapur.

SPONSORSHIP

The organizers solicit the kind patronage from all organizations both under private and public sectors for the successful conduct of the event. It is expected that more than 100 delegates will attend the event. Interested organizations can use the opportunity to show case their capabilities. The opportunities for sponsorship/advertisement are detailed below.

Sponsorship	
*Gold Sponsor: Two complementary delegates : Logo on Backdrop	Rs 50,000/- +GST
*Silver Sponsor: One complementary delegates : Logo on Backdrop	Rs 30,000/- +GST

ADVERTISEMENT

A Souvenir/Proceedings/Book of Papers will be published during the Convention.

Advertisement	
*Full page Back cover - color (one delegate will be free)	Rs 20000/- + GST
*Full page inside Back cover - color (one delegate will be free)	Rs 15000/- +GST
*Full page—color	Rs 10000/- +GST
*Full page black and white	Rs 7000/- +GST
*Half page —color	Rs 5000/- +GST
*Half page —Black and white	Rs 3000/- +GST

*GST @ 18% is to be paid additionally as per GOI rules for all Advertisement/Sponsorship/Registration in all payment categories.

EXHIBITION ROOMS/STALLS: Will be provided on request at nominal charges + GST

MODE OF PAYMENT

All Payments including sponsorship and registration fee may be remitted by an account payee Demand Draft/Multicity Cheque drawn in favour of 'The Institution of Engineers (India), Durgapur Local Centre' payable at Durgapur. The Bank account details are given below may be used for online money transfer:

- Beneficiary : The Institution of Engineers (India), Durgapur Local Centre
- Bank : State Bank of India Branch Code: 02108
- IFSC Code : SBIN0002108
- Account Number : 11520034651
- Branch Details : R E College (Durgapur), NIT Campus Durgapur,
Dist. PaschimBarddhaman Pin.713209
- IEI PAN : AAATT3439Q
- GST Number : 19AAATT3439Q2ZQ

NATIONAL ADVISORY COMMITTEE

Chairman : Er Narendra Singh, FIE, President, IEI
Co Chairman : Dr Deb Kumar Tripathy, FIE, Chairman, PRDB, IEI
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Mr S K Bhakat, AMIE
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Convenor: Prof N.B Hui, Professor, NIT, Durgapur

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Mr. P. K. Swain, Sr. General Manager, M/s Supreme Industries

Mr. Devasish Paul, Managing Director, M/s Nextgen Plasma Pvt. Ltd

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Mr Eshan Chatteraj, AMIE, Software Developer

Mr Rajat Malakar, AMIE, Executive-SAIL-DSP

Mr S K Thakur, AMIE, Executive- DVC

Mr Koushik Chatterjee, AMIE, BCREC

For any clarification please contact:

Er. Manoja Kumar Biswal

Honorary Secretary, The Institution of Engineers (India), Durgapur Local Centre

✉ durgapurlc@ieindia.org; ☎ **9332248440** (Evening 18.00 Hrs to 9.00Hrs Morning)

ADDRESS FOR CORRESPONDENCE

The Honorary Secretary

The Institution of Engineers (India)

Durgapur Local centre

Nehru Avenue

B Zone, Durgapur 713205

☎ 0343-2564770

REGISTRATION FORM

THIRTY FIFTH NATIONAL CONVENTION OF PRODUCTION ENGINEERS
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ON
EMERGING TECHNOLOGIES FOR SUSTAINABLE MANUFACTURING
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I wish to attend the convention as a

- Corporate Member
- Student
- Company Sponsored Delegate
- Authors/Paper Presenters
- non Member /Faculty/Scientist

& staff of Academic/Research Institution

Name: _____

Designation: _____

College/Office Address: _____

Residential Address:

Telephone/Mobile Number (Mandatory): _____

E-mail address (Mandatory) _____

I also wish to present a paper in the conference

Title of Paper:

Details of Registration Fee and hotel advance enclosed:

Bank Online Ref./ DD/Cheque No. _____

Drawn on _____ (Bank, Date _____)

(Signature)

Photo Copy of Form in Complete Fill up with payment details is to be send by email or post.

durgapurlc@ieindia.org and ieidurgapur@gmail.com