

The Institution of Engineers (India)

A Century of Service to the Nation

Call for Papers

THIRTY-FIFTH

NATIONAL CONVENTION OF PRODUCTION ENGINEERS

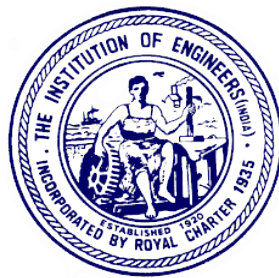
and

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**

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ABOUT 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 appears 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.

For further details, please visit: www.ieindia.org

CALL FOR PAPERS

We are pleased to share that Durgapur Local Centre the Best Local Centre (2018-19) of The Institution of Engineers (India) is organising 35th National Convention of Production Engineers on the theme '**Emerging Technologies for Sustainable Manufacturing**' during May 23-24, 2020.

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 or green manufacturing minimizes waste which are to be obtained by adopting practices that will influence the product design, process design and operational principles. Therefore, 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 National Convention aims to provide a platform so that the experts, technocrats, the OEMS, the user industries and academicians will meet together and exchange the latest developments in the field so that the emerging technologies will be implemented and results in enhanced productivity and quality.

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.

Engineering Professionals from different industries, Academic Institutions, R&D Organisations, Government Departments and Entrepreneurs are hereby invited to submit their manuscript in line with the following three Themes and Sub theme embraces the Theme of the National Seminar.

➤ **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

➤ **Integration of Technologies**

GUIDELINES FOR AUTHORS

The authors are requested to submit the Synopsis by e-mail with a copy to durgapurlc@ieindia.org , ieidugapur@gmail.com.

Based on original contributions leads to innovations, plans for development, observations, findings, critical survey and case studies, which are invited for discussion in the National Seminar.

Authors intending to submit a manuscript for 35th National Convention of Production Engineers are advised to adhere to the guidelines as mentioned below.

- Synopsis of Paper within 500 words with maximum five key-words have to be submitted first and after acceptance of the same, full text of the Paper has to be submitted.
- Synopsis will be reviewed by domain experts and the decision will be communicated to those authors whose synopsis is accepted.
- Full Text Paper should be prepared in line with the follows.
- Papers should be camera-ready in MS-Word format, not exceeding 3000 words in length excluding figures, tables, appendices.
- The language of the Publication is English. The mode of presentation should be in third person.
- The Template for preparation of article and the Declaration Form, (to be submitted by the authors duly filled in and signed for copyright purpose) is available with the link https://www.ieindia.org/webui/IEI-Activities.aspx#Call_Papers.
- SI units should be used wherever possible. Other units, if used, should be given only in parentheses preceded by SI units.
- Mathematical symbols should be typed and care should be taken to differentiate between similar characters (e.g. 1 and l), upper and lower case letters and superscripts and subscripts.
- Lengthy mathematical proofs and derivations and extensive test data are discouraged. If absolutely essential, they should be given as appendices.

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For any clarification please contact :

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(Evening 18.00 Hrs to 9.00Hrs Morning)

Durgapur Airport is well connected by Air from New Delhi, Mumbai, Hyderabad and Chennai