

**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**

**October 30-31, 2021**



Organized by

**The Institution of Engineers (India)**

Durgapur Local Centre (Diamond Jubilee Year)

Under the Aegis of

**PRODUCTION ENGINEERING DIVISION BOARD, IEI**

Venue : Virtual Mode & Hybrid Mode

**VISVESVARAYA AUDITORIUM  
NEHRU AVENUE, B-ZONE, DURGAPUR-713205**

E-mail: [durgapurlc@ieindia.org](mailto:durgapurlc@ieindia.org), [ieidugapur@gmail.com](mailto:ieidugapur@gmail.com)

Website: [www.ieidurgapurlc.org](http://www.ieidurgapurlc.org)

## 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 Organization (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](http://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 35<sup>th</sup> National Convention of Production Engineers on the theme '**Emerging Technologies for Sustainable Manufacturing**' during October 30-31, 2021.

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 is 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 Organizations, 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.

- 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**

**SUBMISSION OF PAPERS :** The authors are requested to submit the Synopsis by e mail with a copy to [durgapurlc@ieindia.org](mailto:durgapurlc@ieindia.org) , [ieidugapur@gmail.com](mailto:ieidugapur@gmail.com) .

### **Paper Guidelines For Authors**

Authors intending to submit Paper for the National Convention are advised to adhere to the guidelines as mentioned below.

1. Papers should be camera-ready in MS-Word format, not exceeding 3000 words in length and should not carry more than 5 illustrations/photographs.
2. The language of the Publication is English. The mode of presentation should be in third person.
3. The Template for preparation of article may be downloaded from:  
[https://www.ieindia.org/webui/IEI-Activities.aspx#Call\\_Papers](https://www.ieindia.org/webui/IEI-Activities.aspx#Call_Papers)
4. SI units should be used wherever applicable. Other units, if used, should be given only in parentheses preceded by SI units.

5. 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.

6. Lengthy mathematical proofs and derivations and extensive test data should be given as an appendix.

**Time Schedule :**

Submission of full text of paper:	05.10.2021
Acceptance will be conveyed to authors:	10.10.2021
Submission of Registration Fee:	15.10.2021
Intimation about Presentation:	20.10.2021

**Participation and Registration**

There is no participation charge for the online National Convention.

**For Registration, please click on the following link:**

[https://docs.google.com/forms/d/1xdGm71t\\_JYBQ3BUfr-3NDY\\_bTjbKZD5gxHsmqQmy6hA/edit](https://docs.google.com/forms/d/1xdGm71t_JYBQ3BUfr-3NDY_bTjbKZD5gxHsmqQmy6hA/edit)

The authors and delegates, who opt for 'e-Certificate of Participation', need to register themselves first using the above mentioned registration link and thereafter make a nominal payment of INR 200/- (US\$ 5 for overseas participants) [+ GST @ 18% as applicable] using the payment gateway available against the link

<https://ieindia.org/adminui/webinar.aspx?FPeEChVPIHDy8bv+eVZBqNIPWjW8j5bTKxgedhPfpZY=>

Certificate along with tax invoice will be emailed to the participant within 7 days of conclusion of the event. This is an approved CPD programme of The Institution of Engineers (India).

**All accepted Papers must be registered. For Single Author Single Registration is required where as for Multiple Authors Minimum Two Authors has to register.**

Few selected Papers will be recommended for possible publication after peer review in IEI Springer Journal.

**COPY RIGHT**

The papers are considered for possible publication on the understanding that these have not been submitted to any other publisher. The copyright of papers accepted for publication lies with The Institution of Engineers (India) and reproduction of the papers or any part thereof is not allowed without the permission of the Institution. Contributors are required to sign a Declaration Form as enclosed to this effect while submitting their papers.

As per Bye-Law 118 of IEI, Copyright of each paper published in Institution Journals or Proceedings in full or in Abstract at its Centres shall lie with the Institution.

***IF ANY AUTHOR INTERESTED TO ATTEND PHYSICALLY, THEY MAY JOIN ON THEIR OWN RISK MAINTAINING COVID-19 SoP/ PROTOCOL. THEY SHOULD INFORM THE ORGANIZERS TO TAKE PRIOR PERMISSION.***

**For any clarification Contact : Mr. Manoj Kumar Biswal  
Honorary Secretary,  
The Institution of Engineers (India)  
Durgapur Local Centre**

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