



The Institution of Engineers (India)

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CALL FOR PAPERS

**32nd National Convention of Mining Engineers and National
Conference on**

**“Occupational Health Problem and Remedial Measures in
Mining Operation”**

03-04 (Saturday & Sunday), December 2022, Durgapur

Organized by

The Institution of Engineers (India)

Durgapur Local Centre

Under the Aegis of

MINING ENGINEERING DIVISION BOARD, IEI



Venue

Durgapur , West Bengal 713205

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, postgraduate students and Ph.D. 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 a Degree in appropriate field of Engineering. IEI in collaboration with Springer regularly publishes a peer-reviewed international journal in five series, namely, Series A, Series B, Series C, Series D and Series E covering fifteen engineering disciplines.

ABOUT IEI LOCAL CENTRE, DURGAPUR

The Institution of Engineers (India), Durgapur Local Centre (the then sub centre) established in 1961 in National Institute of Technology, (formerly known as R. E. College) Durgapur. In 1986 it was shifted from NIT Durgapur to Nehru Avenue, B-Zone, Durgapur-713205.

Durgapur Local Centre achieved Best Local Centre for the session 2003-2004, 2015-16 and again 2018-2019. Durgapur Technicians' chapter also achieved 2nd best technicians' chapter for the sessions 2015-2016, 2016-2017, 2017-2018, 2018-2019 consecutively.

Present Corporate Membership Strength is 2767 and Non corporate (i.e. Technician and Sr Technicians') Strength is 12110 as on 31st December 2021.

ABOUT DURGAPUR CITY

Durgapur is located in the district of Paschim Burdwan, in the state of West Bengal, India. It is a well-planned industrial city on the banks of river Damodar. It was founded in the late fifties by the then Chief Minister of West Bengal Dr Bidhan Chandra Roy. It is only 175 Kms away from the international Airport Kolkata, capital city of West Bengal. A large number of manufacturing industries are there in Durgapur, which includes Durgapur Steel Plant (DSP), Alloy Steel Plant (ASP), General Electric Manufacturing Unit, Graphite India Ltd, Durgapur Project Ltd., Durgapur Thermal Power Corporation, Philips Carbon Black Ltd, Graphite India Ltd. It is also surrounded by Coal Mines from ECL, BCCL, CESC including many other private industries. It is also having a software technology park of India consisting of various software firms like Pinnacle, Webel etc. The well-built, well lit

roads add to the strong infrastructure of Durgapur. At the present day, Durgapur city is evolving as one of the major attractions (after Kolkata) in West Bengal, not only because of its excellent infrastructure and soothing environment, but also for the availability of all modern entertainment and health avenues, like shopping malls, multiplexes, five star hotels, specialty hospitals, etc. It has very well connectivity with Road, Rail & Air. The connectivity with Kazi Nazrul Islam Airport (Andal) to Delhi, Mumbai, Hyderabad, Chennai, Bangalore etc. is very good.

CALL FOR PAPERS & OBJECTIVE OF THE CONFERENCE

We are pleased to share that Durgapur Local Centre the Best Local Centre (2018-19) of The Institution of Engineers (India) is organizing 32th National Convention of Mining Engineers and National Conference on “Occupational Health Problem and Remedial Measures in Mining Operation” 03-04 December 2022.

The persons employed in the mines and other core industries are exposed to a number of hazards at work which adversely affect their health. Some of the important ones are dust, noise, toxic metals, heat, humidity vibration etc. In recent times there has been increasing awareness among mining industry and the workers about occupational diseases such as Coal Worker’s Pneumoconiosis, Silicosis, Manganese Poisoning, Hearing Impairment etc. caused by exposure to health hazards at work. Almost all occupational disease are known to cause permanent disablement and there is no effective treatment. However, most occupational diseases can be prevented by adopting proper occupational health measures and control of hazards at work place.

Dust related diseases still remain the main area of concern among mine workers globally. These diseases are still prevalent among miners all over the world. Studies have shown that Indian mining industry is no exception. Cases of Silicosis, Coal Worker’s Pneumoconiosis, etc. have been reported from Indian mines. Other occupational diseases such as noise induced hearing impairment, etc. have also been reported. Although, many surveys and studies have been conducted, comprehensive data on prevalence of occupational diseases in Indian mines is not adequately available. This is primarily due to lack of proper occupational health surveillance procedures and comprehensive occupational diseases surveillance programme. In the absence of uniform criteria for detection and diagnosis of occupational diseases including notified diseases many cases of occupational diseases remain undiagnosed or undetected.

This convention aims to have identification and discussion of on such gaps and remedies thereof in support of Academia, Industries, and business houses to facilitate the practicing Engineers and students.

OBJECTIVE:

- Optimizing interactive mine environment of Man (Right to health) and Machine (Productivity) under Ergonomic ambiance.
- Promote importance of remedial measure to control Occupational Diseases for long term sustainability of machine used in mines
- Encourage indigenous manufacturer to consider occupational diseases as an important aspect in designing stage of HEMMs and other machines.
- Detection and diagnosis of occupational diseases and its uniformity in mining scenario

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 Themes and Sub-theme that embraces the Theme of the National Conference.



THEME: “Occupational Health Problem and Remedial Measures in Mining Operation”

SUB-THEMES OF CONFERENCE:

Topics of interest for submission include, but are not limited to:

- HEALTH HAZARD DUE TO DUST IN MINES
- NOISE AND ITS EFFECTS ON HEALTH
- HEALTH HAZARDS DUE TO VIBRATION IN MINES
- SOP AND COP FOR OCCUPATIONAL HEALTH AND SAFETY
- ERGONOMIC ISSUES FOR INDUSTRIES
- MACHINE DESIGN SUITABLE TO HEALTH OF OPERATORS
- OHSAS 18001

GUIDELINES FOR AUTHORS

Original contributions leading to innovations, plans for development, observations, findings, critical surveys, and case studies would be invited for discussion in the National Conference. Authors intending to submit a manuscript for the **32th National Convention of Mining Engineers and National Conference on “Occupational Health Problem and Remedial Measures in Mining Operation”** are advised to adhere to the guidelines as mentioned below.

- The synthesis of the Paper within 500 words with a maximum of five keywords has to be submitted first and after acceptance of the same, the full text of the Paper has to be submitted.
- Domain experts will review Synopsis 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.

COPY RIGHT

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

BEST PRESENTATION AWARD

Best presentations will be selected for award and will be conferred with Certificate of Merit for each category.

HOW TO SUBMIT

The authors are requested to send your Synopsis/abstract on following email on and before 07/10/2022 (**October 07, 2022**) .

durgapurc@ieindia.org

ieidurgapur@gmail.com

Any query related to the submission of papers or attending Conference can be written to **Convenor: Er. Ranadeep Bhattacharjee,**

HOW TO REGISTER

After making the payment, the registration form is to be filled up online (LINK WILL be available after 24th October 2022 (Monday) on <http://www.ieidurgapurc.org>) and fees receipt to be uploaded in the same google form.

Mode of Remittance:

The Bank account details are given below may be used for online money transfers:

- *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. Paschim Barddhaman Pin.713209*
- *IEI PAN: AAATT3439Q , • GST Number : 19AAATT3439Q2ZQ*

REGISTRATION FEES

TYPE OF DELEGATES	AMOUNT INR (INCLUDING 18% GST)
AUTHORS / CORPORATE MEMBERS OF IEI / STUDENTS	1200
ACADEMIC/RESEARCH INSTITUTIONS	2500
INDUSTRY AND OTHERS	4000

IMPORTANT DATES

Synopsis submission	October 07, 2022
Notification of acceptance of synopsis	October 24, 2022
Full-length paper submission	November 15, 2022
Registration	From October 24, 2022

For any clarification please contact: **Er. Manas Mazumdar** Honorary Secretary,
The Institution of Engineers (India) Durgapur Local Centre durgapurlc@ieindia.org;

OR

Convenor: Er. Ranadeep Bhattacharjee, AMIE, Mobile: 9434796300