



NORTHERN COALFIELDS LIMITED, SINGRAULI

presents

ICOMS-2019

**INTERNATIONAL CONFERENCE ON OPENCAST
MINING TECHNOLOGY & SUSTAINABILITY**

in Association with



IIT (BHU) VARANASI & SPRINGER NATURE

DEC' 13-14, 2019

Selected Papers after peer review shall be published in Springer Nature

VENUE

**NORTHERN COALFIELDS LIMITED
SINGRAULI (M.P.), INDIA - 486889**



ABOUT ICOMS-2019

The fossil fuel based energy sector, where coal is the primary ingredient, is slowly being replaced by environment friendly 'Green Energy'. In this transitory stage it is becoming more important for Coal Industry to reorient itself to remain relevant in the energy sector in a sustainable manner. On the eve of World Energy Conservation Day, Northern Coalfields Limited (NCL) is organizing the 2nd International Conference on **Opencast Mining Technology and Sustainability (ICOMS-2019)** on 14th December, 2019 at Singrauli, Madhya Pradesh, India in association with Indian Institute of Technology (BHU), Varanasi. The ICOMS-2019, scheduled during December 13-14, 2019 aims to provide forum for the peers and blossoms of the academicians, scientific community & industry professionals to interact and exchange their knowledge in the field of Opencast Mines and Energy. Visit www.icomsnclitbhu.com

CHIEF PATRONS

Shri Prabhat Kumar Sinha
Chairman cum Managing Director
Northern Coalfields Limited

Prof. Pramod Kumar Jain
Director, IIT (BHU) Varanasi

PATRONS

Shri Gunadhar Pandey
Director (Technical/Operations), NCL

Shri N N Thakur
Director (Finance), NCL

Shri M K Prasad
Director (Technical/P&P), NCL



THEME

A) Production, productivity and safety in OC mining:

- Production, Productivity and Safety: New Methods to facilitate high stripping opencast mining with improved productivity & economics
- Design and development of software to design mine working slope and dumps
- Advanced Blasting techniques
- Methods to extract inter-mine boundary coal
- Unconventional Mining Methods
- Best Practices / Benchmarking in maintenance and operations in OC mining
- Automation and Artificial Intelligence

B) Environmentally Sustainable Methods:

- Mitigative measures to check pollution load on air and water within safe limits
- Future challenges & Energy security
- Alternatives to blasting technology, i.e., mitigating ground vibrations and air blast
- Developing eco-friendly logistics infrastructure, Mine Closure & Sustainable Energy Management
- Social Sustainability

C) Renewable Energy and Clean Coal Technologies

- Clean Coal Technologies (Methane Drainage, Coal Pyrolysis and Gasification, Carbon Capturing, Storage, Utilization and Sequestration)
- Low rank coal
- Biofuels
- Fuel Cells
- Solar/Wind Power
- High Efficiency Low Emission technologies
- Energy Storage
- Waste to Energy

D) Advanced Materials for Energy

- Nanostructured Materials for Energy
- Solar Energy Materials
- Crystalline Porous Materials
- Advanced Graphene Materials
- Composite materials for applications in Mining/Energy sector

CALL FOR PAPERS

The conference will include structured lectures, audio-video presentations and case studies on above themes. The abstract in the prescribed [format](#) is to be submitted online on the conference website: <https://www.icomsnclitbhu.com/call-for-paper>



IMPORTANT DATES

Last date of submission of abstract	October 30 th , 2019
Notification for acceptance of abstract and Registration open	November 7 th , 2019
Last date of submission of paper	November 30 th , 2019
Online Conference Registration Deadline	November 20 th , 2019
Notification for time and slot of presentation	November 25 th , 2019
Date of Conference	December 13-14 th , 2019

ORAL & POSTER PRESENTATION

The oral and poster session is proposed to highlight the activities in thematic areas of ICOMS-2019. For Oral presentation 5 minutes time will be given to participants for presentation consisting of up-to 15 slides. For poster presentation, poster display space of 3 ft (w) x 4 ft (h) will be available for the presenters. A committee comprising of eminent scientists/engineers/ professors will make its decision on the best posters.

PUBLICATION

All the selected papers will be published in Springer Nature, New Delhi, India. Papers not selected for publication in Springer Nature will be published in the conference Souvenir.

REGISTRATION

National	
Delegates Category	Registration Fee
Academics	3000 INR
R&D Institute	5000 INR
Industry	7000 INR
International	
Academics	150 USD
R&D Institute	200 USD
Industry	250 USD

•No Registration fee for delegates from CIL and IIT(BHU).

•For registration please visit conference website.

YOUNG SCIENTIST AWARD

- For Best Oral Presentation
- For Best Poster Presentation

CONNECTIVITY & ACCOMODATION

Singrauli is connected by flight up to Varanasi & Jabalpur airport. Limited accommodation is available at our Guest Houses. Hotels are available in the vicinity. All the delegates, participants are advised to send their prior requests for accommodation in advance at icoms.ncl@coalindia.in.

For details, Contact Coordinators



Northern Coalfields Limited

NCL, a Public Sector Company (Mini Ratna Category-I), a wholly owned subsidiary of **Coal India Limited**, under the Ministry of Coal, Government of India) is a major contributor to energy requirement of the nation. NCL's main products include non-coking coal in the range of grades G5-G11 besides 'De-shaled Coal' and the 'Coal Rejects'. About 90% of the coal produced is dispatched to Power Sector. At present, there are 10 nos. of highly mechanized opencast mines (In MP and UP) which deploy large capacity equipment like Draglines, Shovels, Dumpers, and Surface Miners of varying capacities. For more info, please visit. www.nclcil.in

Indian Institute of Technology (BHU), Varanasi

Indian Institute of Technology (BHU) Varanasi is a premier engineering institution established in 1919 at Banaras Hindu University and is more than 100 years old. Located in Varanasi, Uttar Pradesh, India. It was earlier known as Benco. The engineering institution was later converted to Indian Institute of Technology (IIT) in 2012 through an Act of Parliament. For details visit <https://www.iitbhu.ac.in/>

Convener

Mr. Satish Jha

General Manager,
Corporate Planning, NCL
Ph: +91-9406711702

Prof. P.K. Mishra

Professor & Head, Dept. of Chemical Engg.
IIT (BHU), Varanasi
Ph.: +91-9415301462

Prof. S.K. Sharma

Professor, Dept. of Mining Engg.
IIT (BHU), Varanasi
Ph.: +91-9450950078

Co-Convener

Mr. Bhartendu Kumar

General Manager(Excv), Nigahi, NCL
Ph: +91-9425176789

Coordinators

Mr. Manish Kumar

Chief Manager (Mining),
Nigahi, NCL
Ph: +91-7694031582

Mr. Ramesh B. Sindhur

Chief Manager (Mining),
Amlohri, NCL
Ph.: +91-9406711742

E-Mail: icoms.ncl@coalindia.in



INTERNATIONAL CONFERENCE ON
OPENCAST MINING TECHNOLOGY & SUSTAINABILITY

www.icomsncliitbhu.com

CONFERENCE REGISTRATION FORM



Conference Name	International Conference on Opencast Mining Technology & Sustainability
Venue/Place of Event	NCL-HQ, Singrauli, M.P. (486889), India
Date of Event (DD/MM/YY)	13-14 December, 2019

PLEASE FILL IN A SEPARATE REGISTRATION FORM FOR EACH CONFERENCE PARTICIPANT

Title	1. Dr. 2. Mr. 3. Ms. 4. Prof.	Name	
Affiliation			
Mailing Address			
City, Zip, Country		Passport Number/ AADHAR No. :	
Mobile		Email	
ACCEPTED PAPER INFORMATION (Not applicable for Delegates attending conference as Listeners)	Paper ID: Title of the paper: Authors:		
Co-Authors Details	1.	2.	3. Guided by: Mail ID: Contact No: Affiliation:

PAYMENT INFORMATION

Total Amount (USD)	Bank Name	Remitter	Date	Ref. No
	For online transfer (Debit card/Credit card/Online Banking)	Order ID/Traction ID:		

Bank Account details: A/c : 30717432785; Bank: State Bank of India; IFSC: SBIN0011445; Branch: SBI IT BHU Branch. Kindly mail receipt to ubi.mciie@iitbhu.ac.in after payment.

Payment of a registration fee covers the cost to attend all conference activities, coffee breaks, conference reception and banquet, and all lunches during the conference. In addition, each registrant will receive a copy of the conference proceedings with ISBN. However, this registration fee does not cover transportation fee, accommodation fee, and after conference tour fee.

Note: It is mandatory to provide a scan copy of ID Proof along with this Registration form

ADDITIONAL INFORMATION

- ⊙ Will you present physically at the event _____(Y/N).
- ⊙ No. of Persons attending the event with you?(Including your Co-authors)_____.
- ⊙ Will your Guide/HOD/Principal attending will attend the Event? _____(Y/N).

Declaration & Undertaking

1. I have not published this paper anywhere before.
2. I will not cause or involve in any sort of violence or disturbance within and Outside of the Conference/Event venue. 3. NCL has all rights reserved to shift the venue, rescheduling the date of the Event.
4. I do here by declare that all the information given by me is true and if at any moment it is found to be wrong my registration for event will be cancelled by NCL and take necessary action against me.
5. I am transferring the Copyright of my paper to NCL/IIT (BHU)

Signature: _____ Current Date(DD/MM/YY)_____

Remarks: _____ □

Please complete this form and email a scanned copy to: icoms.ncl@coalindia.in