

4th International Conference on Opencast Mining & Sustainability (ICOMS-2021)			
Schedule (HALL A)			
DAY 1: 13th December 2021			
8:00 AM	Registration of Delegates/Paper Presenters		
9:00 AM	Registration of VIPs		
9:30 to 11: 45 AM	Inaugural Function		
11:45 AM	Visit of Guest of Honours to Exhibition, Poster Gallery		
12:00 PM	High Tea		
12:30 to 2:00 PM	Plenary Discussion		
<i>Plenary Discussion among Distinguished Special Guests, Industry & Academia Experts</i>			
Chairman	Shri Abdul Kalam	Former CMD, ECL	
1	Shri Rakesh Kulshrestha	Former Deputy DGMS	
2	Shri Baban Singh	Former D(T/O), MCL	
3	Shri N N Thakur	Former D(F), NCL	
4	Shri Piyush Kumar Rai	HOD (Mining), IIT BHU	
5	Shri Anil Mittal	Dean, AKS University Satna	
Hall A			
2:30 to 4:00 PM	Technical Session -A-1		
Theme : Recent Practices & Innovations in Mining Industry			
	Tech papers	Author	Institution
1 (Keynote)	Empowered Maintenance of Mining Systems	Uday Kumar	Lulea University, Sweden
2	A Survey of Dragline Mining Methods and Scopes for Productivity Improvement of Dragline Operation in India.	Sheo Shankar Rai, Bhola Singh	IIT (Indian School of Mines), Dhanbad; CCL Ranchi
3	AVAILABILITY, UTILISATION AND PRODUCTIVITY OF SURFACE MINER	D.Bhattacharjee, A.K. Mishra, Shobhit, Rakesh, Rajat Sharma	CMPDI
4	Strategical approach towards Equipment Life cycle Management for Business success	Rajeev Singh	Caterpillar
5	Toe Relieving in Dragline Benches-Case study of Bina Extn. Open Cast Project	L.P Godse, Rajendra Prasad, Gouranga Senapati, K. Karuna Kumar, Samar Singh	Bina Project, NCL
6	Application of Steep Angle Conveyor in Deep Opencast Coal Mine (A Case Study)	Devendra Pratap Singh, Asit Kumar Roy	CMPDI, Ranchi
7	Utilization of Surface Miner Rejects, Washery Rejects and Coal from Low Grade Seams for Power Generation Using Circulating Fluidized Bed Combustion Technology- An Opportunity at Mahanadi Coalfields Limited	Awadh Kishore Pandey, Nalamasa Sukesh , Y Kamaleshwar Singha	Mahanadi Coalfields Limited, Sambalpur
Hall A			
4:15 to 6:00 PM	Technical Session -A-2		
Theme : Holistic Approach to Contemporary Mining Challenges			
	Tech papers	Author	Institution
1	Digital Strategy and the challenges in Adoption and Implementation	Amit Bhandari, Sanjay Purohit, Bhupendra Tak	MineExcellence, Melbourne Mining Technology
2	AI framework to predict particle size distribution curves of overburden dump materials	Shubham Shrivastava*, Debasis Deb	Indian Institute of Technology Kharagpur
3	Utility of Ground Penetrating Radar (GPR) as a tool for slope stability studies in Saraipali OC mine, Korba	I.D. Narayan, Dr. Sayan Ghosh, Sanjeev M Singh, R.A.Khan, Amit Joshi	CMPDI, RI-V BILASPUR
4	Application of Geospatial Indices for mapping & detection of Land use /Land cover changes in Korba Coalfield mine, Chhattisgarh India	Vijayendra Pratap Dheeraj, Dr. C.S Singh	Indian Institute of Technology (BHU) Varanasi
5	Risk assessment for spontaneous combustion susceptibility of coal through multidimensional unsupervised clustering and Bayesian regression	Siddhartha Agarwal, D.C. Panigrahi, V.K. Saxena	Mining Engineering, IIT-ISM Dhanbad
6	Maintenance and Condition Monitoring Practices followed at Sasan Coal Mine – Power Supply and Distribution System	Anurag Bhatnagar, Ravindra Kumar Tiwari, Chanchal Kumar, Ravindra Kulkarni	GM-Electrical, Moher & Moher Amlohri Extension OCP, Singrauli
7	Closure planning of a coal mine suffering with acid mine drainage- A case study	Aarif Jamal, Amrendra Kumar, Shiv Raj Singh and Mohd Adil Siddique	Indian Institute of Technology (BHU),
~ Day 1 concludes ~			

DAY 2: 14th December 2021			
Hall A			
9:30 to 11:30 AM	Technical Session -A-3		
	Theme : Are we ready for a Sustainable Future		
	Tech papers	Author	Institution
1 (Keynote)	Paper on Green Initiatives	Rohit Mehra (IRS)	
2	Coal: the game changer to make energy more efficient, and improve the bottom line of productivity and sustainability in India's coal mining industry	Smt. Suchandra Sinha	NCL-HQ
3	Technologies for Sustainable Opencast Coal Mining- A Review	I.D.Narayan, Sanjeev.M. Singh	CMPDI,RI-V,Bilaspur
4	Pump performance Monitoring by Thermodynamic method	Sanket Patel, Nageswar Rao	Water Services – Secure Meters Ltd Udaipur
5	Environment Pollution and Management Approach in Singrauli Industrial Complex – The Case Study	Aarif Jamal, Mohd Adil Siddique, Vaibhav Sahu	IIT BHU, Varanasi
6	Implementation of Ground & Roof top Solar Power Project for Optimization of Energy Expenditure in MCL and Way forward to become Net Zero Energy Company.	Gobardhan Mohapatra, Dr. Tusar Kanta Tripathi, Swadhin Mehar, Shweta Smriti Tripathi	Mahanadi Coalfields Ltd.,Odisha., KIIT Bhubaneswar,Odisha
7	Methods adopted at Moher & Moher – Amlohri Extension Opencast Coal Mine (MMAEOCM) of Sasan Power Limited to Achieve Environmental Sustainability	Dr. Amitosh Verma*, Umesh Mahato & Saurabh Agnihotri	Sasan Power Limited, Singauli
Hall A			
11:45 to 01:30 PM	Technical Session -A-4		
	Theme : Overcoming Challenges of Industry Specific Problems		
Oral Presentations (11:45 AM to 12:30 PM)			
	Tech papers	Author	Institution
1	Improvement in Blasts Fragmentation Using Dynamic Computational Approach	Sonu Kumar Meena, Suresh Kumar Sharma, Rajesh Rai and Piyush Rai	Department of Mining Engineering, IIT (BHU), Varanasi
2	Prediction of ground vibration using effective blast design parameters – An advance tool	Jai Jain, Prof.(Dr.)*, B S Choudhary, Anurag Agrawal, Shivam Mishra	IIT (ISM), DHANBAD*, Jayant Project
3	Discomfort level from Blasting Vibration - A case study in NCL Mines	Anindya Sinha, Sayeed Ghori, Suman Sourabh, Rajen Mech, Devang Dave	Director (T/O), NCL; Block- B Area, NCL; Production Deptt. NCL HQ
4	OPTIMUM PRODUCTION BY HIGHWALL MINING	Anil Kumar Mittal, S Dasgupta	AKS University, Satna
5	Impact of some operational factors on whole-body vibration exposure of dumper operators in iron ore mines	Ashish Bhattacharjee, Rahul Upadhyay, Aditya Kumar Patra	Indian Institute of Technology Kharagpur
Panel Discussion (12:30 PM to 01:30 PM)			
Theme	"Improvement in Blasting Performance and its cost effectiveness in NCL Mines" - With Representatives of Blasting Companies		
Hall A			
2:00 to 3:30 PM	Technical Session -A-5		
	Theme : Opencast Mining towards Sustainable Paradigm		
	Tech papers	Author	Institution
1	The Role Of Knowledge Sharing In Achieving Social Sustainability: A Discussion Based On Indian Mining Sector	Dr. Anirban Ganguly, Dr. Shishir Dutta,	O. P. Jindal Global University, Haryana; WCL, Nagpur
2	Innovative comprehensive Action Plan for Sustainable Energy Management in Open Cast Coal Mines	Dr. Tusar Kanta Tripathi , Saroj Prasad, Sasmita Sarangi	KIIT BBSR; Mahanadi Coalfields Ltd., Burla, Sambalpur, Odisha
3	Can Occupational Health be an Important Factor in Maintaining Social Sustainability in Mining Industry? Evidence from the Health Issues of Mineworkers	Vibha Yadava, Dr. Suresh Kumar. Sharma*, Prof. Purnima Awasthi, Prof. Urmila Rani Srivastava	Banaras Hindu University, Varanasi; IIT BHU, Varanasi*
4	Sasan Coal Mine- A Technical Roadmap to Net Zero Mining	Jayant Singh, Anup Kumar, Rahul Kumar, Shishir Gupta	Sasan Power Limited Coal Mines
5	Prospecting the implications of UAVs in Mining Industry	Dr Anindya Sinha , P D Rathi, Nandan Choudhury, Subodh Bhakat, Abhyudaya Saxena, Samprit Bose	NCL HQ, Aarav Unmanned Systems
6	Unemployment in Singrauli Youth An Empirical Experience	Amrendra Kumar	NCL Amlohri

Hall A			
3:40 to 5:00 PM		Exhibitor Session	
Sl. No.	Tech papers	Author	Institution
1	Fleet Management System: A Flexible, Data Driven Approach	Jason van der Watt, Jonthan du Preez, Pankaj Goyal	Applied Vehicle Analysis, Cape Town, South Africa; Applied Vehicle Analysis Mumbai, India
2	Coal Mine Digitization – Importance of Integrated real time OTR Tyre Pressure and Temperature Monitoring System (TPMS)	KP Khaitan	Director, Khaitan Exim & Services Private Ltd., Kolkata
3	Development of A Solid Fuel Based New Ammonium Nitrate Fuel Oil (ANFO) Formulation	T.V.S. Sarma	CEO Peri Infrastructure Pvt.Ltd
4 (Research Paper)	Application of Directed Energy Deposition Based Additive Manufacturing in Repairing/remanufacturing of HEMMs	Nitul Kumar, Pradeep Kumar	NCL HQ
5 (Research Paper)	A Plant for De-mineralization of Coal to reduce ash content using Magnetic Fields	Pravin Kumar	NCL Khadia
6	OTHERS		
5:00 PM		Veledictory Session	