

Technical sessions









Monday 16th May

Presentation Room

09:00	Opening Remarks: Past President of EFEE - Doru Anghelache Director of ISEE – Steven B. Shivak Chairman of Technical Committee – Roger Holmberg	Room 1
09:30	 Blasting a huge overhanging rock formation in an emergency. J. Wallace & W. Gates	Room 1
	 Implementation of track & trace solutions in existing production environments. Frank Hirthammer	Room 2
10:00	 Blast vibration optimisation at a limestone quarry by using E*STAR electronic detonators and advanced modelling methods. V. Kala & E. Kubat	Room 1
	 PECCS – Pan-European Competency Certificate for Shot firers /blast designers. Teele Tuuna	Room 2
10:30	Coffee - Sponsored by Davey Bickford Enaex	
11:00	 Impact of fragmentation on the operational conditions of loading and haulage equipment - a case study. V. Miranda , F. Leite , A. Oliveira , T. Kouvonen & B. Saraiva	Room 1
	 A comparison of recent and previous pipeline blasting studies. C. Dowding , T.A. Davidsavor , D.A. Provost & Y. Gou	Room 2
11:30	 Modelling and determining the effective parameters in ore dilution in Sarcheshmeh copper mine. V. Kala , E. Kubat , G.R. Jabalbarzai , A. Nikkxah , G.R. Saeedi , J. Hakimi & P. Tahernejad Javazm	Room 1
	 Building damage due to vibration from rock blasting – instrumented test in Norway. K.M. Norén-Cosgriff , C. Madshus & N. Ramstad	Room 2
12:00	 Understanding single salt, dual salt, and multiple salt bulk emulsions and emulsion blends. D.S. Scovira , B. Victor & Q. Steyl	Room 1
	 Effects on buildings from blast induced vibrations – a numerical pre-study. P.D. Folkow , M. Johansson , J. Leppänen , G. Edefors & A. Naseri	Room 2
12:30	Lunch - Sponsored by Expancel	
14:00	 Domestic water well decommissioning during Covid. J. Wallace & C. Breeds	Room 1
	 Elevated pipeline response to shaft blasting. C.T. Aimone-Martin , J. Redyke , B.M. Meins & O.C. Meins	Room 2
14:30	 Wireless blasting techniques to improve ore extraction and remove people from dangerous areas in secondary stopes. C. Walker , J.A. Kreivi , J.S.C. Marijnissen & S. Barnett	Room 1

	 Magnitude 2.8 Earthquake Caused by 90 Pounds (41 kg) Per Delay! Not So Fast. T.A. Davidsavor, P.E. & J. Aiken, R.E. Burnham, J.K. Ratliff, I.G. Wong & C.T. Aimone-Martin	Room 2
15:00	 A study of the fragmentation of rock masses by explosives - Application to four Belgian case studies. J-P. Tshibangu, N. Gonze, P. Van Landschoot, V. Vanoverbeke & L. Rosini	Room 1
	 New approaches for evaluating building response to blast vibrations. M.I. Álvarez-Fernández, M.B. Prendes-Gero, L. Conde-Fernández & C. González-Nicieza	Room 2
15:30	Coffee - Sponsored by 3GSM GmbH	
16:00	 Rock mass characterisation and ore grade assessment through drill monitoring for open pit applications. J. Navarro, P. Couceiro, J.A. Sanchidrián, P. Segarra, T. Seidl, P. Hartlieb & P.Schimek	Room 1
	 Proposed methodology to reduce microfractures in working stopes utilising vibration modelling. N. Valencia	Room 2
16:30	 Studying blast induced rock movement in open-pit mining with small benches. Koprev, I. Garkov, D. Kaykov, & D. Terziyski	Room 1
	 Rock blast induced pore pressures in quick clay. J. Johansson, S. Gjengedal, J. Park, K.H. Andersen, C. Madshus, & S. Rønning	Room 2
17:00	Adjourn	
20:00	GALA DINNER - Sponsored by Lubrizol – ADEX	Kasteel de Hoogenwerth








Key





-  **Blast Design Management**
Session Chair: [Roger Holmberg](#)
-  **EU Directives and Harmonisation Work**
Session Chair: [Espen Hugaas](#)
-  **Blast Design Management**
Session Chair: [Janeen Smith](#)
-  **Blast Vibration and Seismology**
Session Chair: [Donald Jonson](#)
-  **Blasting Work Experiences**
Session Chair: [José Carlos Góis](#)
-  **Blast Vibration and Seismology**
Session Chair: [Johan Finsteen Gjøvdad](#)
-  **Construction, Mining and Quarrying (Blasting)**
Session Chair: [Mark Hatt](#)
-  **Blast Vibration and Seismology**
Session Chair: [Mathias Jern](#)

Technical sessions







Tuesday 17th May

Presentation Room

09:00	 Automatic 3D Fragmentation Analysis from Drone Imagery. A. Gaich, M. Pötsch, & M. Baumgartner	Room 1
	 Cold case investigation - Who blasted the transmission tower and killed four people? M. Ruspeckhofer	Room 2
09:30	 Automatic blast design based on an autonomous drone. T. Bernard	Room 1
	 Key learning from Beirut ammonium nitrate accident - Evaluation of warehouse safety management in Indonesia. A. Wibowo, & A. Sutoyo	Room 2
10:00	 Density monitoring of bulk emulsion explosives in confined boreholes. F.F. Sintonio & J.C. Koppe	Room 1
	 The effects of dynamic pressure in blasting. G. Cavanough & A. Torrance	Room 2
10:30	Coffee	
11:00	 Fundamental study of reactive ground chemistry. G. Conroy & K. Robinson	Room 1
	 Blasting activities with fast-combusting energetic compositions in dimension stone quarries and for demolition of structural elements in civil engineering. P. Shishkov, N. Stoycheva & V. Penev	Room 2
11:30	 Ground improvement blasting - further development of the BDR classification scheme. T.N. Little	Room 1
	 Optimising blast hole loading with MWD and 3D image analysis. B. Gyngell, T. Buschjost, T. Worsey & G. Diehr	Room 2
12:00	 Implementation of Technology to Fully Digitalize the Drill & Blast Process in a Remote Setting. A. Bihlar, L. Bermingham & R. Farnfield	Room 1
	 The art of detonation – energetic creation. P. Bosch	Room 2
12:30	Lunch - Sponsored by IEE Global	
14:00	 Multiple blasthole dynamic pressure (MBDP) model to alleviate dynamic pressure in blastholes. R. Yang	Room 1
	 Analysis of air blast overpressures within a negative pressure boundary. F.B. Kuhnow	Room 2

14:30	 Optimisation of surface blasting by photogrammetric 3D models from drone imagery. A. Gaich , M. Pötsch & M. Baumgartner	Room 1
	 Demolition and reuse of a 152 m chimney at Amager Resource Center, Copenhagen. C.A. Andersen , S. Qvist , P. Brask , E.C. Thyrring & J. Schneider	Room 2
15:00	 Thermo-mechanical behaviour of high strength concrete containing polypropylene under thermal loading. Z. Kurdo & L.G. Clough	Room 1
	 Technical and safety aspects for the demolition of a chimney with a height of 150 m in a difficult location. R. Laszlo , E. Ghicioi , C. Jitea , A. Nicola & L. Miklos	Room 2
16:00	Conference Closes	

Key

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Technical Development
 Session Chair: [Jari Honkanen](#)
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Health, Safety and Environment
 Session Chair: [Viive Tuuna](#)
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Technical Development
 Session Chair: [Robert Laszlo](#)
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New Applications and Training
 Session Chair: [Joerg Rennert](#)
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Technical Development
 Session Chair: [Igor Kopal](#)
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Demolition Blasting
 Session Chair: [Jacob Uittenboogaard](#)