

International Black Sea Mining & Tunnelling Symposium 2016 was held in Trabzon/Turkey

MEI sponsored *International Black Sea Mining & Tunnelling Symposium (IBSMTS)* (www.blacksea2016.com) which was organised by Karadeniz Technical University (KTU) Department of Mining Engineering and Karadeniz Technical University (KTU) Mining Association in Trabzon/Turkey at November 2-4. Two parallel short courses were held on 2th November. One of the short courses was about tunnelling which delivered by Dr. Nick Barton, Prof. Dr. Turgay Onargan (Dokuz Eylul Univ., Turkey), and Prof. Dr. C. Okay Aksoy (Dokuz Eylul Univ., Turkey). The other course was on *Comminution&Control&Modelling in Mineral Processing* which delivered by the experts from Metso by Murat Us (Mining Eng., Sales Manager) and Mert Katkay (Mining Eng., Sales Engineer) and Dama Engineering by Dr. Tuğcan Tuzcu (Head of Mining and Mineral Processing Dept.). At November 3-4, six keynote lectures, 19 poster presentations, and 46 oral presentations were presented with sum of 71 scientific papers. Over 200 researchers from Norway, Iran, Algeria, and Turkey attended to the symposium with their scientific studies.





Dr. Nick Barton in *Tunnelling* course (November 2)



Lecturers and participants after the *Tunnelling* course (November 2)



Photos from *Comminution&Control&Modelling in Mineral Processing* short course (November 2)



Opening Ceremony (November 3)



Prof. Dr. Ali Osman Yılmaz (Head of KTU Dept. of Mining Eng.) making his speech at opening ceremony



Mr. Metin Güneş (Head of KTU Mining Association) making his speech at opening ceremony



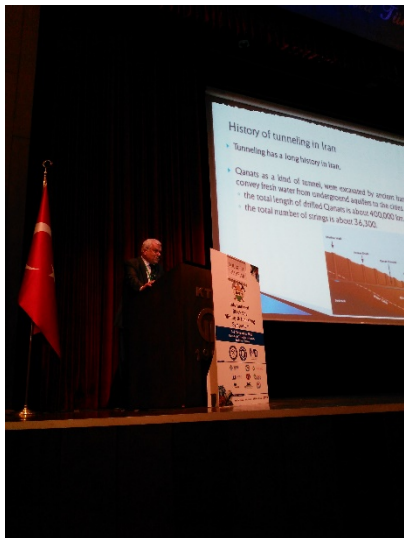
A/Prof. Dr. Kerim Aydın (Head of Organisation Committee) making his speech at opening ceremony



Exhibition Area



Prof. Dr. Ali Osman Yılmaz in registration desk with some of the students from KTU Dept. of Mining Eng. that worked in the organisation of the symposium





Sessions



INTERNATIONAL BLACK SEA MINING & TUNNELLING SYMPOSIUM



Abstract Submission Deadline
15 May 2016

2 - 4 November 2016
TRABZON

Abstract Submission:
Symposium language is
Turkish and English.
Abstracts will be sent to
symposium secretary via email.

Email 1: blacksea2016@outlook.com
Email 2: contact@blacksea2016.com

WHOLE DAY TUNNELLING COURSE

Time	Lecturer	Course Title
9:00 - 12:00	Dr. Nick Barton	Empirical methods in drill-and-blast and TBM tunnelling, for civil and mining engineers: Q and Q_{TBM}
13:30 - 15:00	Prof. Dr. Turgay Onargan	Support Design Principles and Applications in NATM Tunnelling
15:30 - 17:00	Prof. Dr. C. Okay Aksoy	Principles of Numerical Modeling Methods in Tunnel Design and Introduction of Non-Deformable Support System

COMMINUTION & CONTROL & MODELLING IN MINERAL PROCESSING

Time	Speakers	Course Title
9:00 - 12:00	Murat US (Metso) Dr. Birel SÖNMEZ (Metso) Mert KATKAY (Metso)	New trends in comminution circuits: HPGR(High Pressure Grinding Roll) Stirred milling technology & applications in ultra-fine grinding. Expert control & automation systems in mineral processing
13:30 - 14:30	Murat YAZICIOĞLU (MPES)	The need to utilize modelling methods and industrial trainings in mineral processing operations from the perspective of plant performance
15:00 - 17:00	Sabri Karahan (DAMA) Tuğcan Tuzcu (DAMA)	Modelling in mineral processing and plant performance improvement: functional performance analysis



KARADENİZ TECHNICAL UNIVERSITY — MINING ENGINEERING DEPARTMENT

www.blacksea2016.com





2 NOVEMBER 2016

09:00 - 17:00

WHOLE DAY TUNNELLING COURSE



KARADENIZ TECHNICAL UNIVERSITY - TRABZON - TURKEY

WHOLE DAY TUNNEL COURSE CONSISTS OF THREE PARTS. FIRST PART OF THE COURSE WILL BE GIVEN BY DR. NICK BARTON WHO IS THE DEVELOPER OF ONE OF THE MOST CITED AND USED ROCK MASS CLASSIFICATION SYSTEMS, "Q". SECOND PART OF THE COURSE WILL BE GIVEN BY PROF. DR. TURGAY ONARGAN ABOUT NATM TUNNELLING WHO HAS MANY CONSULTING EXPERIENCES FOR TUNNELLING PROJECTS. PROF. DR. C. OKAY AKSOY WILL PERFORM THE LAST COURSE ABOUT NUMERICAL METHODS IN TUNNELLING WHO HAS ALSO GREAT CONSULTING CAREER IN TUNNEL WORKS.

COURSE OUTLINE

Time	Lecturer	Course Title
9:00 - 12:00	Dr. Nick Barton	Empirical methods in drill-and-blast and TBM tunnelling, for civil and mining engineers: Q and Q_{TBM}
13:30 - 15:00	Prof. Dr. Turgay Onargan	Support Design Principles and Applications in NATM Tunnelling
15:30 - 17:00	Prof. Dr. C. Okay Aksoy	Principles of Numerical Modeling Methods in Tunnel Design and Introduction of Non-Deformable Support System

Target Audiences: Mining Engineers, Civil Engineers, Tunnel Engineers, Rock Engineers, Engineering Geologists, Modelers of Jointed Media.

Course 1: 9:00 - 12:00

Title: Empirical methods in drill-and-blast and TBM tunnelling, for civil and mining engineers: Q and Q_{TBM}

Lecturer: Dr. Nick Barton (Nick Barton & Assoc., Oslo, Norway)

Objectives of the short course:

This half-day short course will cover some key elements of the lecturer's developments and work in rock mechanics and rock engineering. The course will start with the Q-system, an example of observational empiricism, using a key-note treatment of rock mass classification and its many site-interpretation and tunnel-and-cavern design aspects. TBM tunnelling performance will follow, from world records to more common performance, especially problems caused by fault zones. The Q_{TBM} prognosis method for estimating penetration rate PR and advance rate AR, will also be described and illustrated.

First part of the course: FORTY YEARS with the Q-SYSTEM: LESSONS and DEVELOPMENTS

Second part of the course: TBM PERFORMANCE, PROGNOSIS by Q_{TBM} , AND RISK CAUSED BY FAULTING



Course 2: 13:30 - 15:00

Title: Support Design Principles and Applications in NATM Tunnelling

Lecturer: Prof. Dr. Turgay Onargan (DEU, Mining Engineering Department, İzmir, Turkey)

Objectives of the short course:

This course will cover discussed 'Rock engineering design in NATM Tunnelling - the importance of process, prediction of behavior, choice of design criteria, review, and consideration of risk', outlining his views on the design process.



Course 3: 15:30 - 17:00

Title: Principles of Numerical Modeling Methods in Tunnel Design and Introduction of Non-Deformable Support System

Lecturer: Prof. Dr. C. Okay Aksoy (DEU, Mining Engineering Department, İzmir, Turkey)

Objectives of the short course:

This course will cover discussed 'Numerical modeling principles in Rock engineering and Tunnelling and also Non-Deformable Support System'. Selection of time-dependent rock mass deformation characters, rock mass behavior, rock mass properties and the evaluation of non-deformable support system is the important issues for the system. The short course give some outlining his views on the design process.



This short course will be held within the INTERNATIONAL BLACK SEA MINING AND TUNNELLING SYMPOSIUM. For further details of the course (registration fee, curriculum vitae of lecturers, course/symposium venue, contents of courses and etc.) please check the symposium website: www.blacksea2016.com



2 NOVEMBER 2016

09:00 - 17:00

COMMINUTION & CONTROL & MODELLING IN MINERAL PROCESSING




KARADENIZ TECHNICAL UNIVERSITY - TRABZON - TURKEY

WHOLE DAY COURSE CONSISTS OF THREE PARTS. FIRST PART OF THE COURSE WILL BE PROVIDED BY THE EXPERTS FROM SECTOR'S LEADING COMPANY **METSO** ABOUT NEW TECHNOLOGIES FOR ORE PROCESSING. SECOND PART OF THE COURSE WILL BE GIVEN BY **MPES** FOCUSING ON THE NUMERICAL METHODS IN MINERAL PROCESSING. LAST PART WILL BE PRESENTED BY PROFESSIONALS FROM **DAMA ENGINEERING** ABOUT MODELLING IN MINERAL PROCESSING.

COURSE OUTLINE


Time	Speakers	Course Title
9:00 - 12:00	Murat US (Metso) Dr. Birol SÖNMEZ (Metso) Mert KATKAY (Metso)	New trends in comminution circuits: HPGR(High Pressure Grinding Roll) Stirred milling technology & applications in ultra-fine grinding Expert control & automation systems in mineral processing
13:30 - 14:30	Murat YAZICIOĞLU (MPES)	The need to utilize modelling methods and industrial trainings in mineral processing operations from the perspective of plant performance
15:00 - 17:00	Sabri KARAHAN (DAMA) Tuğcan TUZCU (DAMA)	Modelling in mineral processing and plant performance improvement: functional performance analysis

Target Audiences: Mining Engineers, Mineral Processing Engineers




Title: New Trends in Comminution Circuits: HPGR (High Pressure Grinding Roll)

Speaker: Murat US
(Sales Manager of Metso)




Title: Expert Control & Automation Systems in Mineral Processing

Speaker: Mert KATKAY
(Sales Engineer in Metso)




Title: Stirred Milling Technology & Applications in Ultra-Fine Grinding

Speaker: Dr. Birol SÖNMEZ
(Process Technology & Innovation Manager of Metso)




Course 1: 9:00 - 12:00



Title: The need to utilize modelling methods and industrial trainings in mineral processing operations from the perspective of plant performance

Speaker: Murat YAZICIOĞLU
(Managing Partner)



Course 2: 13:30 - 14:30

Title: Modelling in mineral processing and plant performance improvement: functional performance analysis



Speaker: Sabri KARAHAN
(CEO & General Manager)



Speaker: Tuğcan TUZCU
(Head of Mining and Mineral Processing Department)



Course 3: 15:00 - 17:00

This short course will be held within the INTERNATIONAL BLACK SEA MINING AND TUNNELLING SYMPOSIUM. For further details of the course please check the symposium website: www.blacksea2016.com