



International Conference on Underground Space Technology

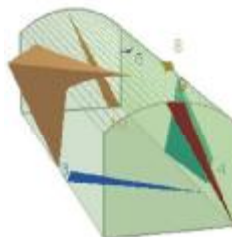
ICUST 2011

International Conference on Underground Space Technology
and
the 8th Asian Regional Conference of IAEG

17 – 19 January 2011. Bangalore, India
Venue: Le Meridien, Sankey Road, Bangalore



Organized by
Indian Society of Engineering Geology
and
National Institute of Rock Mechanics
under the aegis of
**International Association of Engineering
Geology and the Environment**



First Announcement
December 2009

Asia is witnessing a rapid growth of underground structures and utilization of underground space for various purposes. Large scale construction of tunnels and caverns for development of infrastructure, mining, transport (metro / rail / road), hydropower, oil & gas repositories and defence installations is being undertaken under difficult terrain and rock conditions. In this context, it is proposed to organize a Conference which would provide a forum to bring together all those involved in developing the underground space, and to share their knowledge and experience.

► Invitation to ICUST-2011

The Indian Society of Engineering Geology, in association with the National Institute of Rock Mechanics, under the aegis of the International Association for Engineering Geology and the Environment, proposes to organize an International Conference on "Underground Space Technology", during 17-19 January 2011, in Bangalore, India.

► IAEG

The International Association for Engineering Geology and the Environment (IAEG) was founded in 1964 and is affiliated to the International Union of Geological Sciences. IAEG is a worldwide scientific society with more than 5,200 members and 59 National Groups.

The IAEG cooperates with international scientific organizations. It edits a quarterly journal, the Bulletin of Engineering Geology and the Environment. It operates Commissions, led by eminent world specialists, which review the state-of-the-art on various topics. It sponsors international meetings, and international symposia and regional conferences organized by its National Committees. For details, visit www.iaeg.org.

► ISEG

The Indian Society of Engineering Geology (ISEG) was founded in 1965. Dr DN Wadia, the doyen of Indian geology, was the founder

President of the Society. The ISEG provides a vibrant platform for discussing and debating a host of geotechnical problems and state-of-the-art technologies, and showcases the nation's achievements in the field of geotechniques. ISEG represents the Indian National Group of the IAEG.

The engineering and geoscientific fraternity from across the nation, representing almost all the leading organizations engaged in civil engineering and infrastructure development projects, constitutes the membership base of the Society. The Society provides fora for technical deliberations on relevant topics and has organised a number of Symposia / Seminars / Workshops. For details, visit www.isegindia.org.

► NIRM

National Institute of Rock Mechanics (NIRM) was established in 1988 as an autonomous research Institute under Ministry of Mines, Government of India. It is a premier centre for research in applied and basic rock mechanics and rock engineering. This institute, located at Kolar Gold Fields in Karnataka, is the only institution in South Asia exclusively devoted to research in rock mechanics and rock engineering. NIRM has been developed as a Centre of Excellence for scientific design of mine workings, design of rock excavations and support systems, site characterisation practices, and advanced research in rock mechanics and ground control.

The Institute has a wide ranging clientele in mining, hydro power projects and allied sectors. Equipped with state-of-the-art facilities, the Institute offers research and industry sponsored projects for all types of tunnelling, mining and civil engineering sectors. For details, visit www.nirm.in.



Theme of the Conference

The main theme of the Conference is underground space technology in civil engineering and mining sectors.

Aim of the Conference

The Conference is proposed to address the problems and challenges posed in excavation of underground openings in rock for civil engineering and mining purposes, and the solutions to overcome these problems. Past experiences and application of new technologies will be highlighted, with a focused approach to problem solving and for exploring the future potential in these areas.

Specific Topics

- Site investigations and rock mass characterization
- Stress regime around underground openings
- Testing of rocks to determine their physico-mechanical properties
- Tunnelling methods / Methods of excavation
- Design methodologies, with emphasis on numerical modeling
- Rock reinforcement and ground improvement
- Instrumentation and monitoring
- Hazard assessment and analysis
- Environmental management
- Other peripheral issues



Target Audience

Professional civil and mining engineers, geologists, academicians, research scientists and all others engaged in geotechnical engineering, mining and rock mechanics for underground structures.

Call to Authors

Researchers, academicians and practicing engineers are invited to contribute technical papers highlighting their ideas, experiences and findings in the areas and topics related to the theme of the Conference. First, soft copy of Abstract in about 500 words, in MS Word format, along with

authors' contact details and affiliation, should be sent by e-mail to icust@nirm.in.

Last date for submission of abstracts
30 April 2010.

Last date for submission of full papers
30 September 2010.

Exhibition

Necessary space with appropriate facilities would be provided at the Conference venue for display of the activities and products of those interested, such as Government agencies, corporate sector, consultants, contractors and manufacturers / suppliers of instruments, equipment and materials.



Post-Conference Tours

20 - 22 January 2011

The technical and sight seeing tours for those interested include a visit to the Bangalore Metro project which is presently under construction, and visits to Mysore and Ooty.

Welcome to Bangalore.

Bangalore (or Bengaluru), is the capital of Karnataka state, India. It is today Asia's fastest growing cosmopolitan city, and is home to some of the most high tech industries in India, particularly to IT industry. It is also home to some of India's premier scientific establishments.

The city is blessed with a salubrious climate, gardens and parks, natural lakes. It has developed a number of architectural landmarks, shopping malls, good restaurants, discos and pubs, and business opportunities. It offers something for everyone - music and dance concerts (western and Indian), dramas, exhibitions, carnivals, conferences and more.

Organized by



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