

Workshop

# APPLICATIONS OF ROCK MECHANICS - TOOLS AND TECHNIQUE

15-17 January 2010  
Nagpur (Maharashtra), India



ISRM

*Organised by*

**International Society for Rock Mechanics (India)**

*and*

**Central Board of Irrigation & Power**

**in association with**



**Central Institute of Mining & Fuel Research  
Regional Centre, Nagpur (Maharashtra), India**

(A Constituent of Council of Scientific & Industrial Research)

## INTRODUCTION

The study of rock mechanics has assumed considerable importance due to its wide application in civil, mining and petroleum engineering as well advanced research for upper space. Considerable activities are planned and undertaken in India for the projects involving knowledge of rock mechanics in order to catapult its status from developing to 'Developed Country'. Nagpur, the central position in India, can be an epitome for application of rock mechanics for diverse engineering applications as it houses coal and non-coal mines, tunnels and caverns for civil engineering and the city itself is ideally suited for large scale civic amenities placed underground. Geological settings of the region make it necessary to learn from each other for advancement of rock mechanics and safe techno-economical execution of the engineering projects.

Keeping the above in view, the International Society for Rock Mechanics (India), {ISRM (India)} and the Central Board of Irrigation & Power (CBIP) in association with Central Institute of Mining & Fuel Research (CIMFR), Regional Centre Nagpur are organising the present workshop.

The ISRM (India), with its Indian Secretariat at CBIP has been involved in dissemination of information on rock mechanics, mining and tunnel engineering by organising symposia, seminars, workshops, and training courses, both at national as well as international level since its inception in 1991 with its global secretariat in Lisbon (Portugal).

The CBIP, since its inception in 1927, is engaged in the dissemination of information regarding recent technological advancements in the twin disciplines of water resources and power. It also acts as a forum for exchange of experiences and flow of technology through organisation of symposia, seminars, workshops and training courses.

The CIMFR is the premier organization of the country providing R & D back up and advisory services in technology up-gradation & adaptation for mining, civil and petroleum

based industries for safe and economical construction of the engineering projects. The institute also serves the industry by developing new technologies and products as well quality testing services.

#### TOPICS:

The following will be the topics for discussion during the workshop:

1. Status of Rock Mechanics
2. Planning and Investigation, including Geological Studies for Dams and Underground Openings
3. Engineering Properties of Rock and Rock Mass
4. Rock Mass Classification: Application in Engineering Projects
5. Design of Rock Foundations and Underground Structures
6. Underground Space for Metro and Other Civil Amenities

Following are the topics for special sessions on mining:

- Study of Stresses on Coal Mines
- Study of Frequent Slope Failure in Mines
- Study of Stopping and Backfilling
- Study of Mass Production Technologies
- Mines Safety

#### **OFFICIAL LANGUAGE**

English will be the official language of the workshop.

#### **DATES AND VENUE**

The workshop will be held in Hotel Pride, Opposite Airport, Nagpur (Maharashtra) during 15-17 January 2010. Special rates for hotel booking will be available for participants from outside and efforts will be made for Guest House stay on first cum first serve basis.

#### **CALL FOR CASE STUDIES**

The lectures on the topics selected for discussions during the workshop will be delivered by invited eminent experts. Case studies on the selected and allied topics are invited.

Intending author(s) need to send the full text of the case studies, in English only, strictly in accordance with the guidelines. Only original contributions that have not been published or presented at any other forum will be accepted.

The case study shall contain:

- a descriptive, but brief title
- title, name(s) and affiliation of the author(s)
- address for correspondence (including fax numbers and e-mail addresses)
- detailed information about the objective, methods, results and conclusion, to enable a correct appraisal of the suitability of the proposed case study for the workshop

**The last date for the receipt of the full text of the case studies is 15 December 2009.** The case studies will be reviewed by the Technical Committee as to their suitability for presentation.

**The case studies accepted for presentation will be notified by 22 December 2009.** A condition of acceptance of case studies is that the author, or one of the authors in case of multiple authors, will attend the workshop and make presentation. Guideline for the preparation of text is given at [www.cbip.com](http://www.cbip.com). Only original contributions that have not been published or presented at any other forum are acceptable and the paper shall be accompanied by the certificate to this effect. At the end, the author(s) must furnish biodata not exceeding 100 words as per sample given below:

"AAAAAA graduated in Hydraulic Engineering from the University of P P P P P P in 1965. He obtained a Ph.D. in Civil Engineering at the University of Q Q Q Q Q Q. From 1969 to 1980 he worked for R R R R R R, specialising in design and construction of gates at hydroplants. In 1980 he joined S S S S S S Company as Hydraulic Design Chief Engineer, where he worked on civil aspects of the following hydro projects: xxxxx, yyyyyyy and zzzzzz. From 1988 he has been Professor of Hydraulic Engineering at the University of G G G G G G, where he specialises in analysis of model test procedures for hydraulic gates".

A similar description should be given for each author.

A CD, in conformity with the above is also required to be sent. The electronic copy should be prepared by using MS Word (suitable for windows).

## PROGRAMME

The detailed programme will be made available to the delegates at the time of registration.

## REGISTRATION

The registration fee payable by the delegates, including authors of papers, for participation in the workshop is as follows:

	<b>SAARC Countries</b>	<b>Other Countries</b>
Members of ISRM	Indian Rs. 4000	USD 250
Non-Members	Indian Rs. 4500	USD 300
Accompanying Person	Indian Rs. 2000	USD 100

The registration fee covers the cost of registration kit, proceedings, lunch and tea in-between the technical sessions.

## SPONSORSHIP/COSPONSORSHIP

The workshop provides an effective opportunity for organisations/companies to sponsor/cosponsor the workshop by paying a fee of Indian Rs. 1,00,000/USD 5000 and Rs.50,000/USD 2500, respectively. Sponsoring organisations will have the facility to promote their products/services among the participants besides working discussions during tea/coffee and lunch intervals. Sponsors can send five delegates without payment of registration fee, whereas cosponsors can send two delegates without payment of registration fee. Sponsors/Co-sponsors will be permitted to display their products/services during the workshop, and can send one page advertisement for inclusion in the proceedings. In case of the sponsors, the advertisement will be printed in colour.

## PROCEEDINGS

All case studies to be presented in the workshop, besides the invited lectures, will be published as workshop proceedings and will be made available to the registered delegates at the time of registration.

## ADVERTISEMENT

A limited space will be made available for advertisements in the proceedings, on first come first served basis. The rates for advertisement are as under:

<b>Position</b>	<b>Charges for Black &amp; White Advertisement</b>	
	SAARC countries (Indian Rs.)	Other countries (US\$)
Back cover page	25,000 (Colour)	2,500
Second/Third cover page	15,000	750
Full page (20cmx13cm)	10,000	500

## PAYMENTS

All payments can be made by one of the following methods:

- **Bank draft payable to** “Committee for International Society for Rock Mechanics (India)”, payable at New Delhi (India).
- Directly depositing the cheque drawn in favour of the “The Committee of International Society for Rock Mechanics” in the account No. 034601001056 (Branch Code ICIC0000346, MICR Code 110229052) of the society in any branch of the ICICI Bank Ltd. The full details of such payments shall be sent through mail/fax/post.
- By bank transfer in favour of “Central Board of Irrigation and Power”, which is the Secretariat of the ISRM (India), as per details given below:
  - ❖ Name of Bank: ICICI Bank Ltd., Chanakyapuri Branch, New Delhi 110 021, India
  - ❖ Account No. 034601000738
  - ❖ MICR Code No. 110229052
  - ❖ Account Holder Name: Central Board of Irrigation and Power
  - ❖ Swift Code: ICICINBBCTS

**In case of payments by bank transfer, bank commission, as applicable, will have to be borne by the concerned. The details of such transfer should be mailed to the Seminar Secretariat, to update the payment records.**

## WORKSHOP CO-ORDINATOR

**Dr. Mani Ram Saharan, Senior Scientist**

CIMFR Regional Centre, Unit-1, Nagpur

3rd Floor MECL Complex, Seminary Hills, Nagpur 440 006. INDIA

Tele Fax - +91-712-2510-604; +311

**E-mail:** maniramsaharan@gmail.com

## WORKSHOP SECRETARIAT

All correspondences relating to the workshop should be addressed to:

**Shri V.K. Kanjlia**

**Member Secretary, ISRM (India) &**

**Secretary (CBIP), Malcha Marg, Chanakyapuri**

New Delhi 110 021, India

Phone : +91-11- 2611 5984/2611 1294

Fax : +91-11-2611 6347

E-Mail : [uday@cbip.org](mailto:uday@cbip.org); [cbip@cbip.org](mailto:cbip@cbip.org)

National Workshop

**APPLICATIONS OF ROCK MECHANICS  
- TOOLS AND TECHNIQUES**

**15-17 January 2010  
Nagpur (Maharashtra), India**

**Registration Form**

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_ E-mail: \_\_\_\_\_

Fax : \_\_\_\_\_

- |  | Yes                      | No                       |
|--|--------------------------|--------------------------|
| 1. I wish to offer a case study<br>(If yes, please give title)<br>_____<br>_____ | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. I shall participate in the workshop and present<br>the case study             | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. I shall participate but not present a case study                              | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. I shall need assistance for hotel accommodation<br>at Nagpur                  | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. I shall be accompanied by spouse  | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.. We wish to   |                          |                          |
| • Sponsor  | <input type="checkbox"/> | <input type="checkbox"/> |
| • Cosponsor the workshop   | <input type="checkbox"/> |                          |
| 7. We wish to send an advertisement for insertion<br>in the proceedings          | <input type="checkbox"/> | <input type="checkbox"/> |

Date \_\_\_\_\_

Signature \_\_\_\_\_

Please send this form to Mr. V.K. Kanjlia, Member Secretary, ISRM (India) & Secretary, CBIP, Malcha Marg, Chanakyapuri New Delhi-110 021. (To be sent as soon as may be, on receipt of Bulletin).

Fax : +91-11- 2611 6347

E-mail: uday@cbip.org

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# APPLICATIONS OF ROCK MECHANICS - TOOLS AND TECHNIQUES

15-17 January 2010, Nagpur (Maharashtra), India

To

**Shri V.K. Kanjlia**

*Member Secretary, ISRM (India) &  
Secretary (CBIP), Malcha Marg, Chanakyapuri  
New Delhi 110 021, India*

