

REGISTRATION FORM FOR PARTICIPANTS AND AUTHORS

Mr. Mrs. Ms Dr Title _____
 Family Name _____ First Name _____
 Company _____ Designation _____
 Company Address _____
 City _____ Zip or Postal Code _____ Country _____
 Business Phone _____ Fax _____ Mobile _____
 E-mail _____
 Home Address _____
 City _____ Zip or Postal code _____ Country _____
 Passport No. _____ Date of Issue. _____ Date of Validity _____
 Citizenship _____ Place of Issue. _____

FOR TRANSFER OF FOREIGN CURRENCY THROUGH WIRE/MAIL

Name of The Bank:
Punjab National Bank
Branch Office:
Indian Institute of Technology
Roorkee
Swift Code: PUNBINBBARKU
Account Name:
Foreign Contribution, IIT Roorkee
Account No.:4044000100040407
Branch Code: 4044
OR
Through Bank Draft
in favour of "IGHEM 2010"
Payable at Roorkee.

Website:

www.ighem.org

www.ahec.org.in/IGHEM2010/index.htm

Accompanying Person(s)

Family Name _____ Given Name _____

Registration Fee	Before 01 July 2010	After 01 July 2010
Authors/delegates	INR 10,000/- (Euro 200)	INR 15,000/- (Euro 250)
Young author	INR 7,500/- (Euro 150)	INR 10,000/- (Euro 200)
Accompanying persons	INR 3,000/- (Euro 60)	INR 4,000/- (Euro 80)
Fee for Tutorial on Oct 21, 09	INR 4,000/- (Euro 80)	INR 5,000/- (Euro 100)

Fee includes the welcome dinner, lunch and coffee breaks, conference proceedings, support items and social dinner.

Request for Accommodation: Hotel Centrum Motel Polaris IIT Roorkee

Signature _____ Date _____

To be Sent by fax at +91 1332 273517 or by mail to ighem2010@gmail.com

Accommodation

Hotels in Roorkee

➤ **Hotel Centrum (4 star)**

Delhi Road, Roorkee- 247667
Tel.: - +91-1332-242422; Fax: +91-1332-274422
Mob.- 09756207191, 09756207194
Email : hotelcentrum@yahoo.in
Website: hotelcentrumroorkee.com

Deluxe Room INR 1750+ tax @ 5%
Suite INR 2800+ tax @ 5%

➤ **Motel Polaris (3 star)**

Delhi Haridwar Highway, Roorkee- 247667
Tel.: +91-1332-272648, 277701; Fax: +91-1332-277702
Email: stay@motelpolaris.com
Website: www.motelpolaris.com

Deluxe Room INR 1600+ tax @ 5%
Executive Club Room INR 2250+ tax @ 5%
Suite Room INR 2500+ tax @ 5%

Limited Accommodation in IIT Roorkee

➤ **Trainee Officers Hostel** INR. 500/-
➤ **Khosla International House** INR. 500/-



For further details, contact:

Dr Arun Kumar

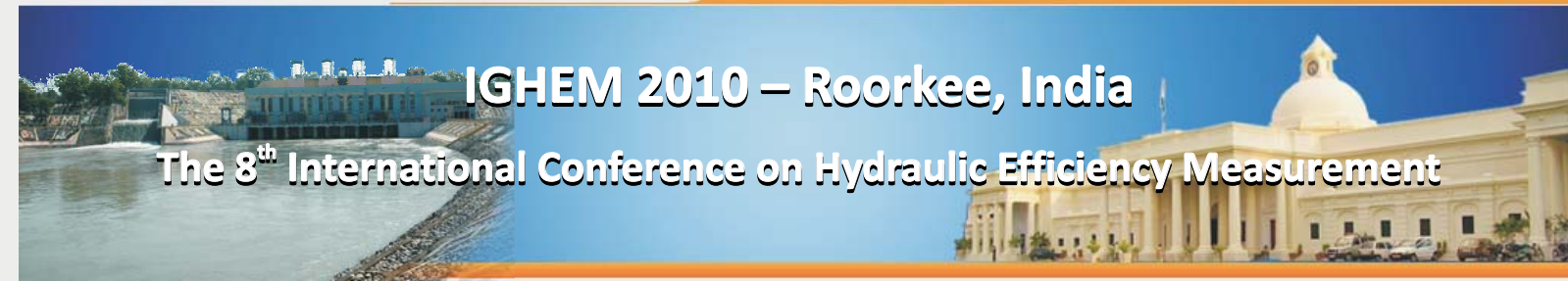
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**October 21 – 23, 2010
Roorkee India**



IGHEM 2010 – Roorkee, India

The 8th International Conference on Hydraulic Efficiency Measurement

Towards Efficient Use of Hydraulic Resources.....

The aim of the conference is to contribute towards improvement of the measuring techniques and evaluating the performance of hydroelectric machines and systems to enhance the viability of hydropower development.

- The Conference will deal with all aspects related to investigation, evaluation, optimization and proving the effectiveness of actions in hydropower plants.
- The Conference deliberations will include pressure, flow, power and efficiency measurements necessary to determine the performance of hydroelectric machines at site and define the hydraulic conditions in order to install or upgrade a hydropower plant.
- The Conference is being held under the auspices of the International Group for Hydraulic Efficiency Measurement (IGHEM).

The Conference will provide a platform for exchange of views amongst hydro specialists and measurement experts from all parts of the world and to present and discuss the latest trends in testing, measurement and problem solving.

The objective is to improve measurement techniques and test innovative methodologies, focusing also on ways for better prediction of hydroelectric performance and behavior.

EFFICIENT USE OF WATER RESOURCES FOR HYDROPOWER LINKED TO:

- ✍ Improvement of unit and system efficiency
- ✍ Improvement of unit and system management
- ✍ Improvement of refurbishment planning of units and plant
- ✍ Improvement of operation and maintenance of power station

**Earlier IGHEM conferences held at:
Montreal (1996); Reno (1998); Kempten (2000); Toronto (2002);
Lucerne (2004); Portland (2006) and Milan (2008).**

IGHEM also gives technical support to standardization groups (e.g. IEC, ISO and CENELEC)

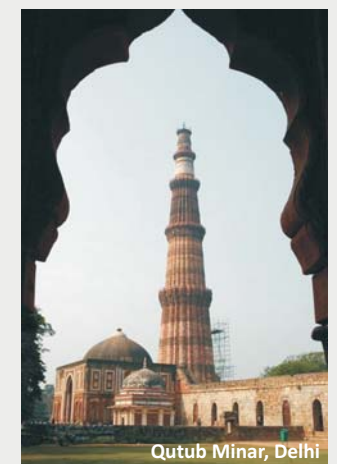
CONFERENCE TOPICS

Papers are invited on relevant subjects including (but not limited to):

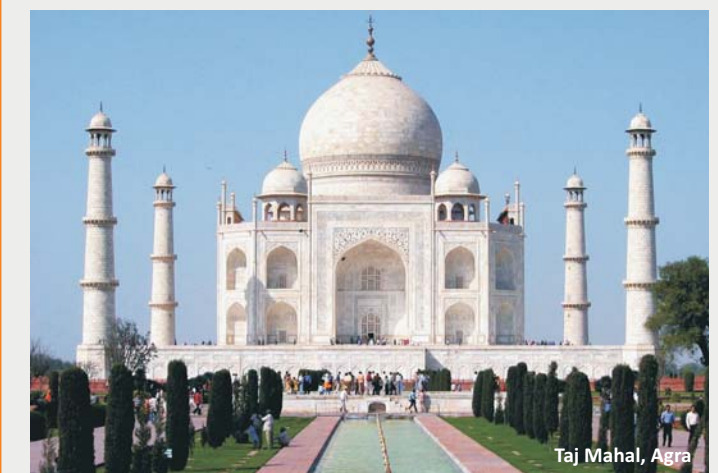
- ✍ Importance of the efficiency evaluation of hydro power plants and hydro systems
- ✍ Efficiency and hydraulic behavior prediction by CFD for flow analysis and/or model testing
- ✍ Site testing as decision making tool for old plants
- ✍ Instrumentation and calibration of testing devices
- ✍ Case studies of efficiency measurement
- ✍ Acoustic and dilution methods
- ✍ Current meter and velocity area methods
- ✍ Pressure-time and differential-pressure methods
- ✍ Thermodynamic method and new efficiency measuring techniques
- ✍ Data acquisition systems and data processing
- ✍ Data analysis and assessment of uncertainties
- ✍ Unit management and plant monitoring for best-efficiency operation
- ✍ Aims and requirements of test standards.



India Gate, New Delhi



Qutub Minar, Delhi



Taj Mahal, Agra



October 21 – 23, 2010
Roorkee India



IGHEM 2010 – Roorkee, India

The 8th International Conference on Hydraulic Efficiency Measurement



EXHIBITION

To showcase equipment, products and services, an exhibition will be organised along with the Conference. Technical exhibitors/ sponsors shall have following facilities:

For Technical Exhibitors

- ✍ One free participant and second participant at 50% of registration fee for attending the conference
- ✍ Free exhibition stand in the conference area
- ✍ Technical booklet and gadgets can be distributed through the conference kit

For Sponsors

- ✍ One free participant and second participant at 50% of registration fee and tutorial fee for attending both the tutorial and the Conference
- ✍ Logo in sponsors' area of the conference brochure
- ✍ Technical booklet and gadgets can be distributed through the Conference kit
- ✍ A full-page advertisement will be included in the proceedings/souvenir

Main sponsors shall also have special mention at special events (social dinner, power plant tour and lunch).



INVITATION TO AUTHORS, PARTICIPANTS AND EXHIBITORS

We are pleased and honoured to invite hydro specialists and measurement experts to the 8th International Conference on Hydraulic Efficiency Measurement to share experiences with "old friends" and "new colleagues". The official language of the Conference is English.

SPECIAL NEWCOMERS' SESSION

In order to give an opportunity to young engineers and doctorate students to attend the conference and contribute to the discussions (with papers or short communications), a Special Newcomers' Session and an award for the best presentation (to be selected by the technical committee) are planned.

TUTORIAL

One-day pre-conference tutorial on "Efficiency Measurement of Hydroelectric Power Plants" will be conducted on Oct 21, 2010.

International faculty will engage the classes and conduct hands on sessions for the participants on:

- ✍ Measurement of hydraulic parameters like velocity, discharge, level, head and pressure
- ✍ Unit efficiency measurement
- ✍ Estimation of measurement uncertainties

CONFERENCE SCHEDULE

Oct 21, 2010 Tutorial on Efficiency Measurement of Hydroelectric Power plants

Oct 21, 2010 (evening) Registration, opening session, welcome reception

Oct 22, 2010 Technical sessions

Oct 23, 2010 Technical sessions

Oct 24, 2010 Visits to nearby power stations

DEADLINES FOR PAPERS (EXTENDED)

Dead line for submission of abstract : April 15, 2010
April 30, 2010 (only for young presenters)

Intimation of abstract acceptance to authors : May 15, 2010

Submission of camera-ready full paper : July 30, 2010

Abstract should be 400-500 words in MS Word or PDF format

Submit abstract and full paper to : ighem2010@gmail.com

ABOUT ROORKEE

The venue of the IGHEM-2010 Conference is IIT Roorkee, India. The Indian Institute of Technology Roorkee (IIT Roorkee), the successor of the University of Roorkee, is the oldest technical institution of India (established 1847). It offers Undergraduate, Integrated Dual Degree and Integrated M. Tech Programmes, post-graduate and doctoral programmes in specialized areas of technology, architecture, science and management. India has altogether seven Indian Institutes of Technology (8 more are being established), which are ranked among the best engineering institutions in the world.

IIT Roorkee has a rich experience in training engineers and



IITR Admn. Bldg.

HOW TO REACH

The travel of participants from Delhi Airport to Roorkee and back to Delhi Airport will be arranged by the conference organisers on payment basis by taxi or rail as per the convenience on the receipt of a confirmed programme in advance.

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H K Verma, India	Member
Fabio Muciaccia, Italy	Member
Gianalberto Grego, Italy	Member
Leif Vinnogg, Norway	Member
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B Majumdar	Jadavpur Univ.	Raj Kumar Singh	L&T Hydro
Saroj Ragnekar	MANIT, Bhopal	P K Sood	Dr. Hutarew
Dilbagh Singh	BRANIT, Jalandhar	Rakesh Kumar	Indo Canadian CS

officers, especially from Asian and African Countries, for the last fifty years. The Institute, engaged in teaching and research, also offers its expertise through consultancy services to private and public sector industries as well as to various government agencies. Since 2004, a multi-disciplinary team of IIT Roorkee has carried out performance testing of about 50 SHP stations of different types and capacities located in different parts of India.

Roorkee is about 180 km north of Delhi and has a number of academic and research Institutions. It is connected to Delhi by road and rail. The nearest international airport is Delhi.



Har ki Paudi, Haridwar