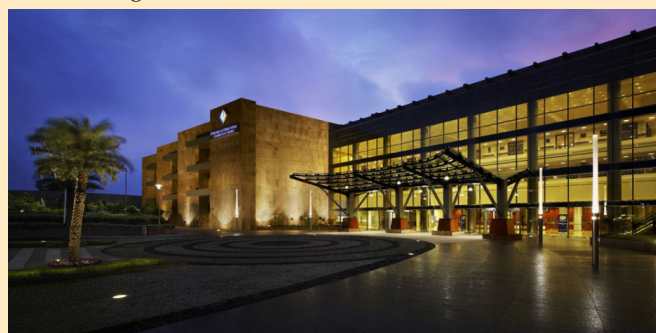


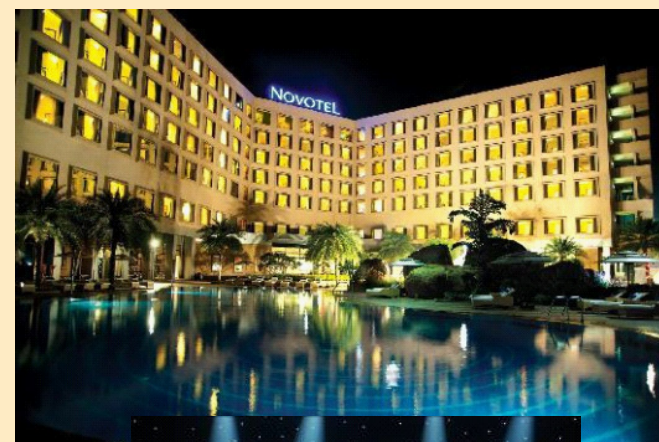
WORLD-CLASS CONVENTION FACILITIES AT HICC

- State-of-the-art IT infrastructure, design, technology, telecom. & Equipments
- 37 breakout rooms, specialized meeting rooms, speaker preparatory rooms, boardrooms and VIP lounge
- Pillar-free internal hall of net 6,480 sq. metres that can hold a 5,000-delegate plenary and can be partitioned into 6 halls
- A spacious pre-function foyer area of over 6,000 sq. m of lobby space
- In house Event Management and Audio-Visual team
- Cutting edge design features including environment-sustainable practices
- 12.5 metres free ceiling height with catwalks and mobile operable walls
- Service pits every 6 metres, with power, water and internet
- Private workspace for organizers and their guests
- In-built power back-up generation capability
- 1000+ car parking base
- Automated telescopic tiered seating for 2500
- Loading dock



FIERY ICE INTERNATIONAL STEERING COMMITTEE	
Richard B. Coffin	Department of Physical and Environmental Sciences, Texas A&M University - Corpus Christi, USA
Bjørn Kvamme	Department of Physics and Technology, University of Bergen, Norway
Stephen M. Masutani	Hawaii Natural Energy Institute, School of Ocean and Earth Science and Technology, University of Hawaii, Honolulu, USA
Hideo Narita	National Institute of Advanced Industrial Science and Technology, Sapporo, Japan
Tsutomu Uchida	Division of Applied Physics, Faculty of Engineering, Hokkaido University, Japan

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Dr. M.A. Atmanand	Director, National Institute of Ocean Technology, Chennai
Dr. S. Rajan	Director, National Centre for Antarctic & Ocean Research, Goa
Dr. Pushpendra Kumar	Head, Gas Hydrates KDM Institute of Petroleum Engineering, ONGC, Dehradun
Dr. Kalachand Sain (Convener)	Head, Gas-hydrate Group, CSIR-National Geophysical Research Institute, Hyderabad



CONTACT:

Workshop Secretariat:

FIERY ICE - 2014
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For details and updates, please visit
www.fieryice2014.org



The 9th International Methane Hydrate R&D (IMHRD) Workshop

SCIENCE & TECHNOLOGY OF GAS HYDRATES: WHEN CAN THEY BE PRODUCED EFFICIENTLY AND SAFELY?

November 9-12, 2014

Venue: Hyderabad International Convention Centre,
 Novotel & HICC Complex, Hitec City,
 P.O. Bag 1101, Hyderabad – 500 081

Sponsored by

Ministry of Earth Sciences (MoES)
 Ministry of Petroleum & Natural Gas (MoP&NG)
 CSIR-National Geophysical Research Institute
 National Center for Antarctic & Ocean Research (MoES)
 CSIR-National Institute of Oceanography
 National Institute of Ocean Technology (MoES)
 Oil & Natural Gas Corporation (ONGC) Limited
 Oil India Limited (OIL)
 Directorate General Hydrocarbons (DGH)

BACKGROUND:

The growing demand of energy and depletion of fossil fuels necessitate looking for an alternate source for sustainable development. Among various forms of renewable and unconventional energy resources, gas hydrates seem to be the major unconventional energy resource for the next generation because of their abundant occurrences in nature. The energy potential of gas hydrates is so huge that even 15% production from global reserve can meet the world's energy requirement for about two hundred years. Successful production tests through carbon dioxide replacement method in the permafrost of Alaska (USA) in 2012 and by depressurization method in the Nankai Trough off Japan in 2013 have increased tremendous interests to the national gas hydrates programs of many countries, particularly in the Asian countries. It is expected that gas hydrates will be produced commercially by another 10 years times. The **'Fiery Ice' International Methane Hydrates R&D (IMHRD) Workshops** were earlier held in Honolulu, Hawaii; Washington DC; Vina del Mar, Chile; Victoria, British Columbia; Edinburgh, Scotland; Bergen, Norway; Wellington, New Zealand; and Sapporo, Japan. **The 9th IMHRD Workshop will be held in Hyderabad, India during November 10-12, 2014** that will provide a platform for deliberation, interaction, sharing information on new advances of several perspectives of gas hydrates. The leading edge topics covering the natural systems, energy, environmental impacts, flow assurance, advancement in production technology, etc will be presented and discussed by an outstanding and diverse group of scientists (academic and industries) from different countries, fostering an opportunity for International collaboration.



STRUCTURE OF THE WORKSHOP

- 1-day pre-workshop Geologic Field Excursion on November 9, 2014, as a part of the Workshop.
- Inaugural and Plenary sessions
- 2 Key-note presentations.
- 12-15 National Reports on recent progress of gas hydrates R&D in respective countries.
- 15 oral presentations on latest work of gas hydrates.
- 25 posters on cutting-edge R&D on gas hydrates.
- Theme-wise 'break-out sessions' spread during the workshop
- 1-day Post-Workshop 'Seminar on Indian Gas Hydrates' or 'Laboratory visit to NGRI'

INDIAN GAS-HYDRATES PROGRAM

- Formed National Programs on GH under the MoP&NG and the MoES spanning from basic science to technology development for E&P
- ONGC (Dehradun), OIL (Dhuliajan), DGH (Noida), Gas Authority India Limited (Delhi), NIO (Goa), NGRI (Hyderabad), NIOT (Chennai), IIT (Kharagpur, Kanpur), ISM (Dhanbad)
- Bathymetry, seafloor temperature, TOC, sediment thickness, geothermal gradient, sedimentation rate indicate good prospects for oceanic GH in India
- ~1900 TCM of methane as GH has been prognosticated within Indian EEZ
- Developed methods for characterizing, delineating and quantifying GH
- Identified prospective zones of GH in KG, Mahanadi and Andaman basins by various geo-scientific methods, which were established by Indian NGHP Exp-01
- Developed ROV up to 6000 m water depth & ACS rated for 100 mbsf to validate ground truth upto 3000 m water depth
- Brought out chemosynthetic habitat abundance in KG basin using ROV, implying GH
- Acquired large volume of MCS, OBS, Geological and Geochemical data in KG and Mahanadi basins for detailed investigation of GH
- Planned for Expedition-02 in 2014 through collaboration to find sand reservoirs
- Intended to acquire geoscientific data in Andaman, Cauvery & Kerala-Laccadive basins for further investigation of GH
- Envisaged production testing at one location through International collaboration
- Aimed to provide a platform for deliberation, interaction, sharing information on latest work and International collaboration on issues related to E&P of GH with a view to advance further research on Science & Technology of GH

IMPORTANT DATES

May 15, 2014	Fiery Ice 2014 Website opens; Online registration and Abstract submission starts
Sep. 15, 2014	Registration, Abstract submission, Registration for Pre-workshop Field Excursion and Post-workshop Seminar/Laboratory visit to NGRI closes
Nov. 9, 2014	Pre-Workshop 'Geologic Field Excursion'
Nov. 10-12, 2014	Fiery Ice 2014 Workshop in Hyderabad, India
Nov. 13, 2014	Post-Workshop Seminar on 'Indian Gas hydrates' or Laboratory visit to NGRI

TOPICS TO BE COVERED

1. Detection and Quantification
2. Logging and Coring
3. Laboratory studies
4. Simulation modeling
5. Recovery and Transportation
6. Climatic issues
7. Future of Gas-hydrates

The topics will be spread into three days' Workshop:

REGISTRATION

Registration Fee for Conference

- STANDARD : US \$ 850
- STUDENT : US \$ 600
- ACCOMPANYING PERSON : US \$ 275

The Registration Fee will cover (i) Pick-up and Drop at the International Airport; (ii) Single bed room accommodation at 5 Star Hotel, Novotel from 9th to 12th nights; (iii) Food (breakfast, lunch, dinner, tea snacks) during the Workshop; (iv) Special Dinner on 10th November; (v) Kits, Pen, Pad, and a Pen Drive containing abstracts and program schedule; (vi) Free Entry to the venue; (vii) Cultural program; (viii) Wi-Fi facility at room; and (ix) Visit to Golconda Fort – a historical Place. This registration fee does not include the Pre-Workshop 'Geologic Field Excursion' and Post-Workshop Seminar on 'Indian Gas Hydrates' or 'Laboratory visit to NGRI'.

Registration Fee for Pre-workshop Geologic Field Excursion: US \$ 100

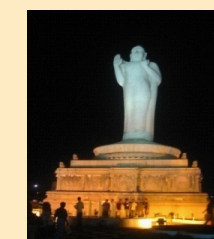
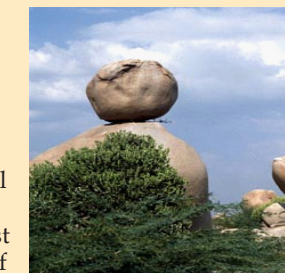
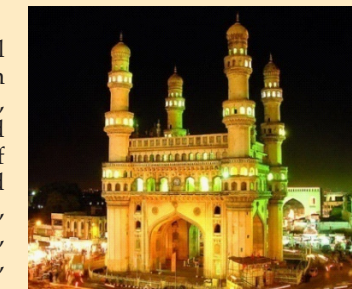
1-day Pre-workshop Geologic Field Excursion on 9th November, 2014, as a part of the 9th IMHRD Workshop on "Science & Technology of Gas Hydrates: When can they be produced efficiently and safely?", provides a glimpse of the Archaean greenstone belts, Precambrian granites and gneisses, and Proterozoic sediments in the Eastern Dharwar Craton. Participants will also visit one of the largest (masonry) irrigation dams in Asia and well-known Buddhists' archaeological sites.

The Registration Fee of 100 USD will cover (i) accommodation at NGRI Guest House on 8th Nov; (ii) Food (dinner, breakfast, lunch, soft drinks/water, tea snacks) during the Field Trip; (iii) Kits and a Guide Book; (iv) A/C Bus; and (v) Sight Seeing during the Pre-Workshop Field Trip.

THE LOCATION

Hyderabad, the capital city of Andhra Pradesh state, is a Science, IT, Pharmaceuticals and Biotechnology hub of India, and is well connected by air/road to Delhi, Noida, Kanpur, Mumbai, Goa, Chennai, Kolkata, Kharagpur, Dhanbad, Dhuliajan, and many other cities from where people working on GH can meet. Hyderabad has

- Strong Geoscience and Technology Heritage
- Commitment of Academia, Government, and Industry
- Excellent infrastructure facilities
- Ancient civilisation and diverse culture; fascinating tourist destination
- Global connectivity
- International airport
- international convention centre with attached Novotel Hotel
- Other category Hotels/Guest houses within 5 km radius of convention centre
- Affordable lunch/food options within the premises
- World-famous Hyderabad-biryani
- Jewelry made up of pearls
- Entertainment centers (classical music, dance, etc.)
- World-class healthcare with state-of-the-art medical facilities



The 400-year old city sees the traditional and modern coexistence in perfect harmony, and offers its patrons worth-treasuring experiences