

## Announcements

### **Eighth Course on Application of Remote Sensing and GIS for Mineral Exploration**

Geological Survey of India (GSI) Training Institute, in collaboration with ISRO, proposes to conduct the 8<sup>th</sup> Course on Application of Remote Sensing and GIS for Mineral Exploration for 10 weeks from 19<sup>th</sup> January 2009 to 3<sup>rd</sup> April 2009 at Hyderabad. The course will cover five modules viz:

1. Fundamentals of Photogeology and Remote Sensing such as aerial photography, photogrammetry, physics of remote sensing, sensors and platforms, various remote sensing data products, formats and remote sensing in visible, thermal and microwave regions of the Electromagnetic spectrum. Techniques of interpretation of aerial photos and satellite imagery.
2. Digital Image Processing and Digital Photogrammetry including Loading of different satellite images and sub setting, Geometric rectification of the spatial data, Statistical analysis of digital data, Various Image Enhancement (radiometric, spectral and spatial) techniques, Multi band enhancement techniques - including band ratioing, Principal component analysis, RGB - HIS transformation, resolution merge, image fusion; Image classification techniques; Mosaicing and map composition. Ortho -rectification, generation of digital elevation model (DEM), 3 D visualization and feature extraction on DEM using both aerial photos (stereo-pair) and satellite data.
3. Geographic Information System covering General concepts of spatial data models, Introduction to Arc GIS, Spatial data capture techniques, Georeferencing and on screen digitization, Automatic and semi-automatic vectorisation using Arc Scan, Spatial data editing, Concepts of GPS and Mobile mapping, Spatial adjustments, GIS analysis and Modeling techniques, Cartographic principles and Map layouts.
4. Case histories of application of Remote Sensing and GIS in Mineral Exploration.
5. Block interpretation and field checks.

The training will be imparted using State-of- the art image processing and photogrammetry and GIS software.

The course is targeted for geoscientists of State /Central government organizations, State Remote Sensing Centres, and Faculty of Universities. The candidates should be postgraduate in Geology/Geography/ Geophysics/Geoinformatics or equivalent degree in the relevant field. Participants who are familiar with using Remote Sensing & GIS techniques will be preferred. There is no course fee. Limited fellowships are available. Modest hostel facility is available in the GSI campus.

Interested candidates may send in their application with the following details: (1) Name of the sponsoring organization (2) Name (3) Designation (4) Sex (5) Date of Birth (6) Academic qualification (7) Area of specialization & professional experience (8) Relevance of training to the present job (9) computer background (10) Address for communication including e-mail ID, phone and Fax number.

**Consent letter:** This is to recommend and forward the application of Dr/ Shri /Ms \_\_\_\_\_ of this Department for the eighth course on "Application of Remote Sensing and GIS for Mineral Exploration " to be conducted by GSI Training Institute, under NNRMS programme sponsored by Indian Space Research Organization from 19th January to 3rd April 2009.

Place:

Date:

(Signature of Sponsoring Authority)

The completed applications may be sent to the Dy. Director General, GSITI, GSI Complex, Bandlaguda, Hyderabad -5000 068. Attention: Director, PGRS Division. (Ph.: 040-24220944, 24220681, Fax: 040-24220680, Email: ddggsiti@gmail.com). For more details please visit the GSI website [www.gsi.gov.in](http://www.gsi.gov.in)

## Joint International Convention (JIC) of 8th IAHS Scientific Assembly and 37th IAH Congress

on

### Water: A Vital Resource Under Stress - How Science Can Help

The Joint Convention will be held during 6-12 September, 2009 at the National Geophysical Research Institute, Hyderabad - 500 606, India and provides opportunities for the members of both, the IAHS (International Association of Hydrological Sciences) and IAH (International Association of Hydrogeologists) Associations from all over the world to interact, share and discuss valuable experiences and issues of mutual interest. This will be a historic event in the annals of global hydrological sciences. There are twenty-two topics of symposia and workshops covering all disciplines of surface and groundwater hydrology. For more details on topics of JIC visit the website <http://www.appliedhydrology.org/iahs/>.

#### Important dates

<b>1. JSx and HSx Sessions for which full papers will be published in Red Books available at the Convention</b>	
Abstract Submission	November 30, 2008
Acceptance of Abstract	January 31, 2009
Submission of full papers	February 28, 2009
<b>2. IAH (Gx) and JWx Sessions</b>	
Abstract Submission	January 31, 2009
Acceptance of Abstract	April 15, 2009
<b>3. HWx Sessions</b>	
Abstract Submission	May 31, 2009
Acceptance of Abstract	June 30, 2009

JSx, JWx - Joint symposia and workshop of IAHS and IAH respectively; HSx and HWx - IAHS symposia and workshops respectively; and Gx-IAH symposia. Papers of IAH theme sessions (Gx) selected through peer review will be published after the Convention in a thematic volume of the IAH selected paper series by Taylor and Francis.

#### Registration fee

	Before May 31, 2009	After June 1, 2009
Members of IAHS/IAH	300 Euros	350 Euros
For Non-member	350 Euros	400 Euros
For student and accompanying person	150 Euros	175 Euros

Registration fee includes one Red Book published and released at the time of, opening and closing ceremonies including the Banquet following the inaugural session, daily transportation from the hotel to the venue and back, daily lunch, transportation from the airport and back to the airport and free access to the internet at the venue. Registration can be done through the Convention website <http://www.appliedhydrology.org/iahs/>. A delegate has to register for IAH Congress or for IAHS Scientific Assembly but he/she is free to attend any session of the Convention.

**Grants:** Limited grant to cover travel/registration is likely to be available to support students and delegates from developing nations and other deserving authors. The details will be published on the website.

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