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Geoporizons is published by the Society of Petroleum Geophysicists ((SPG)

Geohorizons is published by the Society of Petroleum Geophysicists (SPG), India. **Geohorizons** welcomes your contribution and articles on the latest researches and investigations in the field of petroleum geophysics, related geoscientific and engineering disciplines. News items about the Society, announcements and other features containing information of interest to the members of the Society are also welcome.

The statement of facts and opinions given in the articles published in the journal are made on the sole responsibility of author(s) and the Society or the editorial board cannot be held responsible for the same.

Editor's Page



Geohorizons bows its head to the Nature's fury that occurred at the close of the year 2004. What a havoc it wreaked! We have heard of the cosmic dance of Lord Shiva in the Hindu Mythology. What happened here and now was a terrestrial *Seismic Tandava!* Not only did it shake the Indian Ocean but nearly the entire Earth, about its axis! The tsunami which followed the massive earth quake inundated coastal areas of many nations, thousands of kilometers apart, killing more than 150,000 people and destroying crores of rupees worth of assets, natural as well as manmade. All our knowledge, our know-how, our technologies - were of little use, in predicting it, in forewarning the common man, in providing any type of

protection to the living and the non-living. We became humble, helpless and hapless- in front of the Nature's fury, except for witnessing it, and recording it as an Event in the Earth's Natural History. We must all try to do our best in mitigating the sufferings of those affected on one hand and furtherance of our understanding of the science behind such earth phenomenon to stay forewarned.

We have stepped into the Year 2005. *Geohorizons* wishes its readers and patrons a very happy and bright year. Let us hope to find new oil, let us find new concepts to find more oil, new theories to unravel more of the secrets of the Earth.

The beginning of New Year was marked by Petrotech-2005. Held in the backdrop of consistently high global oil prices, it turned out to be more than usual petro-political event by drawing attention to importance of exploration and explorationist. The entire country of ours. right from the CEOs of the industries to economists, from bureaucrats to Union Ministers, talked in our lovely language, that is, in geoscientific language. May we say, a good sign indeed!

The papers in this issue of *Geohorizons* represent seismic API fairly and also contain a few papers that were read in the recent "Dakshtapatt", particularly for the benefit of those who could not participate in the Conference. Other papers include innovative measures taken by an Indian geophysical field crew to acquire better seismic data in the Himalayan foot hills and rediscovering 'Weight-Drop' source, with improved technology, for seismic data acquisition. The latter is printed under Industry Update. Students' Section, another new feature of *Geohorizons*, is being inaugurated in this issue with a paper by a Geophysics student from Kurukshetra University, discussing the application of Fission Track Dating for investigating the thermal history of the sedimentary basins. We once again invite similar contributions from our budding geo-scientists for this column.

Rthromanchan

(**R.T. Arasu**) Editor

President's Page



Dear members! Let me once again wish you all and your families a very happy new year 2005! I also hope that most of you have received the New Year mementos, distributed as a token of our appreciation for your continuous patronage to the society. The January 2005 issue of 'Geohorizons' is in your hands. Bringing out this prestigious journal on schedule has been a challenge and our topmost priority. It is heartening to note that with this issue, we have been able to further reduce the delay in publication and hopefully things will fall in line by the next issue. I thank all the contributors and particularly the editorial board, for responding to the call.

The year 2004 ended on a very sad note with the killer Tsunamis causing havoc in India and many other surrounding regions. This only goes on to show that, in spite of all the technological advancements, how little we know about Mother Nature. This has also thrown a new challenge to the entire geo-scientific community to try and improve the methodology for predicting these catastrophic events. There was a brighter side to the disaster after all! The entire world came together generously to contribute their might for the affected families. SPG, India did its bit by contributing Rs. 50,000/- to the 'Prime Minister's Relief Fund'. However, a more fitting contribution would be to create a Geophysical knowledge archive which may be helpful in predicting such natural disasters and hopefully averting the enormous loss of human life and property. Similar views were expressed by President SEG during his recent visit to India.

On the society front, the New Year began on a bright note with Dr. Craig Beasley, President, SEG choosing SPG, India as one of the first fellow societies, to visit and interact with. Accordingly, a talk by Dr. Beasley was organized at Mumbai chapter in January'05, which was attended by around 100 members from various SPG chapters. Dr. Beasley also delivered two key note addresses at Petrotech-2005 held in New Delhi during January 16-19, 2005. The forthcoming SPG conference 'Kolkata-2006' was also launched officially by President, SEG at the SPG booth in Petrotech-2005.

With this launch, comes a huge responsibility and a big commitment to make the event a great success! This can not be achieved without each member making a contribution, be it formulating the event, contributing technical papers, giving ideas as how to improve on our last event and so on. I appeal to all of you to come forward with suggestions and technical contributions in planning this mega event. You will find relevant details of 'Kolkata-2006' in this issue.

SPG website serves as the common link connecting more than 1200 SPG members world over. The website needs regular updating to make it lively and interactive. We have tried to make the website more interactive during the last few months with the facility of updating membership database/details by the members themselves. However, very few members are availing this facility, which is very disappointing. The executive bodies of all the regional chapters should take a lead in this regard and come up with suggestions to improve and enrich our website and bring it to SEG standards.

The activities conducted by various SPG chapters during the last couple of months also find their due place in this issue and I shall not repeat them here. One important development during the last couple of months has been the move to empanel some of the SPG members as SEG continuing education faculty members for the Asia-Pacific region. Based on the nominations received from the regional chapters, the short-listing was done by a committee and the names have been forwarded to President, SEG for final selection.

As we decided earlier, our endeavor is to ensure greater participation of the representatives in the national/international geophysical conferences. One representative from Jorhat chapter is likely to participate in EAGE-2005 along with another member from SPG, India. In return, the society only expects all the regional chapters to come forward in accelerating all the society activities. I think one of our main priorities at the moment should be a membership renewal/enrolment drive for 2005.

I hope all of us will rise to the task that is in front of us, i.e. taking the society to greater heights on the global platform, without losing the linkage with our grass root members.

I wish you all a very happy reading!

(Apurba Saha) President

Calendar of Events

Date

: 9-12 October 2005

Date	:	10-11 Feb. 2005
Event	:	Sesimic Geomorphology (GSL/SEPM), Houston, Texas, U.S.
website	:	www.geolsoc.org.uk/seismicgeomorphology
Date	:	28 Feb-2 Mar 2005
Event	:	WIT SEG EAGE Seismic Reflection Imaging Workshop,
		Seeheim, Germany
website		workshop@gpi.uka.de
website	•	workshop @ gpi.uku.ue
Date		2-4 Mar. 2005
Event	•	Second East African Petroleum Conference, Entebbe,
		Uganda
website	:	eapc05@eapc.co.ug; / www.eac.int/ eapc/
D		10.15 M 0005
Date		12-15 Mar. 2005
Event	:	14th Middle East Oil & Gas show and conference (SPE)
		"Meeting the Global Demand Challenge, "Bahrain
website	:	fawzi@aeminfo.com.bh
Date		5-7 Apr. 2005
Event		SEAPEX Exploration Conference 2005, Singapore
website	:	seapex@seapex.org
_		
Date		2-5 May 2005
Event	:	Offshore Technology Conference, Houston, Texas, U.S.
website	:	www.otcnet.org.
Date		15-19 May, 2005
Event	:	SEG D&P Forum - Q: What's to be Gained from Seismic
		Loss ? Austin, Texas, U.S.
website	:	ksmith@seg.org
Date	:	16-19 May, 2005
Date Event		16-19 May, 2005 SEG/EGS/EPEX/EPA Cairo 2005 Second International
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Event	:	SEG/EGS/EPEX/EPA Cairo 2005 Second International
Event	:	SEG/EGS/EPEX/EPA Cairo 2005 Second International Petroleum Conference and Exhibition, Cairo, Egypt
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Event : SPE Annual Technical Conference and Exhibition, Dallas, Texas, U.S. website : www.spe.org : 6-11 November 2005 Date SEG Int'1 Exposition & 75th Annual Meeting, Houston, Event : Texas, U.S. website : www.seg.org Date : 15-19 November 2005 : AAGGP/IAPG/SEG VI Congreso de exploration y Desarrollo Event de hidrocarburos, Mar Plata, Agrentina Website: ccruz@pluspetrol.com.ar : 5-9 December 2005 Date : AGU Fall Meeting, San Francisco, California U.S. Event Website: www.agu.org : 9-11, Jan., 2006 Date : 6th International Conference & Exploration on Petroleum Event Geophysics, Kolkata- 2006 Website: www.spgindia.org : 1-4 May 2006 Date Event : Offshore Technology Conference, Houston, Texas, U.S. Website: www.otcnet.org Date : 12-15 June 2006 Event : 68th EAGE Annual Conference & Exhibition Website: www.eage.nl : 24-27 September 2006 Date : 2006 SPE Annual Technical Conference and Exhibition, Event San Antonio, Texas, U.S. Website: www.spe.org Date : 1-6 October 2006 : SEG Int'l Exposition & 76th Annual Meeting, New Orleans, Event Louisiana, U.S. : 11-15 December 2006 Date : AGU Fall Meeting, San Francisco, California .U.S. Event Website: www.agu.org : 30 April - 3 May 2007 Date Event : Offshore Technology Confernce, Houston, Texas U.S. Website: www.otcnet.org Date : 30 Sept. - 3 Oct. 2007 Event : 2007 SPE Annual Technical Conference and Exhibition, New Orleans, Louisiana, U.S. Website: www.spe.org : 10-14 December 2007 Date Event : AGU Fall Meeting, San Francisco, Calfornia, U.S. Website: www.agu.org Date : 2008 : SEG. Int'II Exposition & 78th Annual Meeting, Dallas Event Texas, U.S. website : www.seg.org : 15-19 December 2008 Date Event : AGU Fall Meeting, San Francisco, California. U.S. Website: www.agu.org Date : 2009 : SEG Int'1 Exposition & 79th Annual Meeting, Houston, Event Texas U.S.

6th Conference & Exposition on Petroleum Geophysics KOLKATA - 2006

9 to 11 January 2006 Kolkata, India Theme : "GEOPHYSICS FOR MITIGATING EXPLORATION RISKS"

CALL FOR PAPERS

Technical Programme Committee invites technical papers on wide range of topics indicated overleaf. Authors are requested to indicate the most suitable topic under which their expanded abstract should be considered by the committee. The technical Program Committee will consider expanded abstrancts received by 31st August, 2005.

The Technical Programme will consist of both oral and poster sessions. Authors should indicate their preference for presenting their paper either as an oral or poster presentation. Preference of author for a particular style of presentation shall be borne in mind at the time of final program composition. However, the decision of Technical Program Committee shall be final in this regard.

Oral presentation of technical papers will be held simultaneously in separate sessions to acommodate wide ranging topics of interest. Audio-visual aids would include two 35-mm slide projectors, and projection for PC based presentations (single screen projection). The authors are requested to indicate the type of projection required when they submit their paper for the Conference.

Poster sessions will be held at least on two days during the conference. A single display board (138 cm x 98 cm) will be provided for each poster. The minimum letter size in the text should be of 7 mm height. Use of multicolour is recommended.

Instructions on Expanded Abstracts

- The expanded abstract should be abbreviated, informative, accurate representation of the paper and not a mere recital of the subjects to be covered.
- Organization of the expanded abstract should follow this scheme :
- 1. Summary
- 2. Introduction

- 3. Theory and/or method (or author may choose some other title)
- 4. Examples (optional)
- 5. Conclusions
- 6. Acknowledgements (optional)
- 7. References
- Maximum length of an expanded abstract should not exceed eight pages (including illustrations) on A4 size paper (8.5 x 11 inches). Preferred font size is 9 point, normal weight, Times New Roman.
- Abstract must be written in English
- Figures and tables should not be included within the text copy but should follow the manuscript with each original figure and/or tables in separate sheet along with captions.
- Authors should clearly indicate optimum positions of illustrations and Tables, if any, though production reasons may necessitate some changes.
- Author should submit two hard copies of the expanded abstracts along with a floppy containing the expanded abstract. Expanded abstract can also be submitted through e-mail. Abstracts submitted through fax will not be considered.
- Author should return the expanded abstract, along with the form given overleaf, to Conference Secretariat. copy of the form may also be used, if required.

The papers accepted for presentation will be published in the form of proceedings of the conference. Only properly written expanded abstracts that are in line with the instructions given above will be considered. The acceptance of paper by the Technical Program Committee will, therefore, be entirely based on expanded abstracts.

for abstract kit and further updated information please visit SPG's webiste at <u>www.spgindia.org</u>

CALL FOR PAPERSPlease return this form along with expanded abstract to : KOLKATA - 2006 Secretariat1, Old CSD Building, KDMIPE Campus, Kaulagarh Road, Dehradun (Uttaranchal) India-248 195 email : spgindia@rediffmail.comDue date for expanded abstract Aug 31, 2005						
Paper Title :						
Author (s) (Please indicate speaker with an *)	Company/		Membership PG/SEG/EAGE)			
Specific conclusions / impact of result, ir	ı brief.					
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Please indicate suitable topic (Please Challenges & Opportunities in oil & gas exp Risk & Uncertainty in E & P industry Integrated work process Seismic data acquisition, processing and interpr Gravity and Magnetic prospecting and case Electical and Electromagnetic prospecting a Petroleum E& P case histories E & P activities in frontier areas : Coal Bed Gas hydrates etc. Carbonate reservoirs : Exploration and Devo Deep water exploration and exploitation	reation	ppic) Exploration for Mesozoic prospects Emerging Technologies : Multicompo Depth imaging, Velocity modelling ar AVO, seismic Modelling and Inversio Borehole Geophysics, Wire line loggi Rock Physics Reservoir charaterization and manager Linkages between geophysics and oth E & P Data Management Impact of IT on E & P Industry Business side of petroleum geophysic	nd Anisotropy n ing and petrophysics ment er geosciences			

Paper No. :

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