



**EAGE**

# **Challenges in Seismic Rock Physics**

**Summer workshop  
June 25-29, Beijing**

**Registration: [www.rpl.uh.edu/CSRPB](http://www.rpl.uh.edu/CSRPB)**

**The Preparatory Committee  
Mar. 12, 2007**

Schlumberger



# Challenges in Seismic Rock Physics · Beijing 2007

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## 1. Meeting Background

- This Summer Workshop was initiated by Dr. De-hua Han (UH), Dr. Michael Batzle (CSM) and Dr. Hong Cao (RIPED, PetroChina) and later authorized by SEG and EAGE. Dr. De-hua Han was appointed as a representative to organize the meeting.
- Meeting is organized by volunteers to promote research activities .
- The workshop has obtained quick responses and keen support from SEG, EAGE, SPG and many oil companies, service companies and academic institutes.

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## 2. Meeting Goal

- Promote the research, development and application in seismic rock physics
- Present current technology available on the market.
- Promote technical improvement and stimulate the local economy.
- Promote SEG and EAGE in the far east.

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## Welcome to Beijing, China

- ❑ Fast growing economy, huge demand for hydrocarbon, and mega-scale industry & research, market for cooperation and new technology.
- ❑ 5,000 year cultural history, the 'new face' of China, Olympic city in 2008.
- ❑ Chinese hospitality is famous for welcoming guests from around the world.

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## 3. Meeting Format

In consideration of the climate conditions in Beijing, and also to avoid overlapping with other international meetings, this meeting is scheduled from **June 25 to 29, 2007.**

Five formats for the meeting :

**T**alk

**P**oster

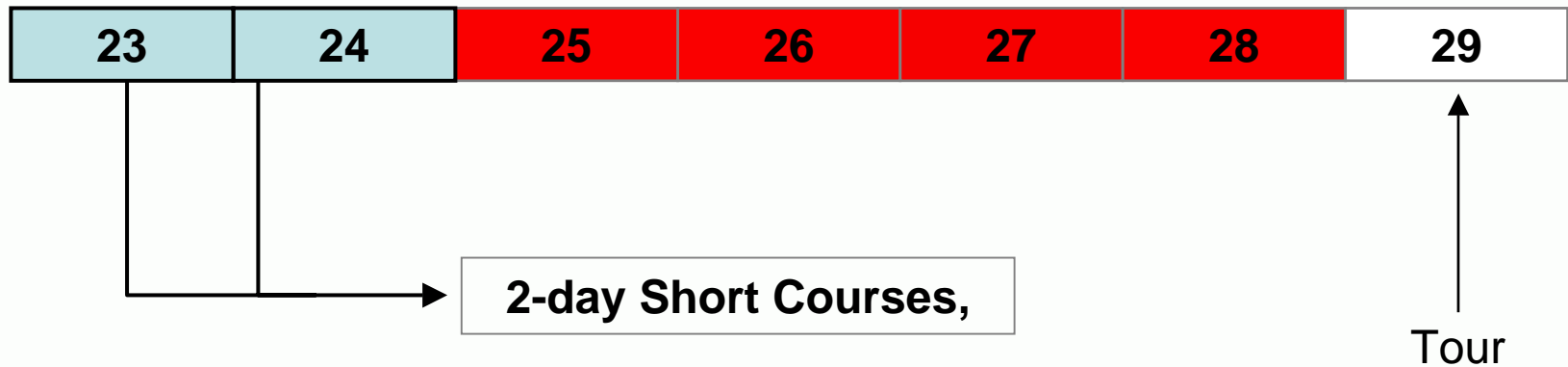
**E**xhibition

**S**hort Course

**G**roup Meetings in the evening (organized by individual companies or groups)

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## 3. Meeting Schedule



- ❑ **Contents:**  *Seismic Rock Physics*  
 *Seismic Inversion*
- ❑ Additional fee

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## 3. Meeting Format



### ■ Talk & Poster

☐ 08:00 ~ 11:30am

☐ 13:30 ~ 17:00pm

☐ Every half day

Tour

- Keynote speaker (50 min.), oral presentation (25 min.):
- Four Poster(Five minute introduction each)
- Language: English



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## 3. Meeting Format



- ❑ Additional fee: \$1,000 to 1,200 per unit (>15 m<sup>2</sup>)
- ❑ Function: place to show profile, products, demonstration and business
- ❑ Schedule: Open at noon and evening, closed when the meeting is in session
- ❑ Total 10 to 12 units (few left)

## 4. Meeting Venue



### ❑ Jiuhua Spa Resort & Convention Center

Located in the North of Beijing,

For more information (English): [www.jiuhua.com.cn](http://www.jiuhua.com.cn)

❑ Luxury facility for meeting, recreation, health club (hot spring), entertainment, featured restaurants, ....

❑ Standard room cost for meeting delegate:  
Less than \$60 per day include breakfast.

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## 5. Technical program

### Short Course

- Introduction of Fluid and Rock Properties for Seismic Interpretation**
  - Instructors: Dr. Micheal Batzle (CSM) & Dr. De-hua Han (UH)??**
  - Date: 8:00 am to 5:00 pm, June 23**
  
- Seismic Inversion Related to Rock Physics (SEG course)**
  - Instructor: Dr. Brian Russell (Hampson Russell, CGG Varitas)**
  - Date: 8:00 am to 5:00 pm, June 24**

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## 5. Technical program

### Keynote Presentation:

**We have invite keynote speakers for different sessions (50 min.)**

For Example, we have invited a SEG/AAPG distinguish lecture

**Uses, abuses, and examples of seismic-derived acoustic impedance data:  
What does the interpreter need to know?**

to be presented by **Ms. Rebecca Latimer**, Chevron Energy Technology Company,  
Houston TX 77002 (Thanks for Chevron China office to sponsor the lecture)

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## 5. Technical program

### Technical Sessions

- Rock and Fluid Properties & Geology:** Fluid and rock properties correlated to geological (sedimentary compaction) environment, measurements and road ahead...
- Models, Trends, Templates:** Theoretical models, empirical trends, cross plots, and their applications and limitations in seismic interpretation
- How to Build Rock Physics Models for a Reservoir?:** Systematic and practical ways to build rock physics models for a reservoir based on multi-scale data (core, log, VSP, seismic) and multi-aspect data (geophysics, geology, engineering...)

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## 5. Technical program

### Technical Sessions

- **DHI, AVO and Beyond:** Optimized attributes for DHI, AVO analysis Spectrum decomposition, dispersion and attenuation analysis to develop quantitative hydrocarbon indicators
- **Challenges in Seismic Interpretation:** Difficult areas of rock physics application in seismic interpretation such as: Identifying False DHI, fizz gas, tight gas, thin layers, carbonate reservoirs, anisotropy (VTI & HTI), fractured reservoirs, overpressure (compaction trend and shale)
- **Time Lapse:** What do we actually observe with time-lapse seismic monitoring? Fluid effects, Pressure effects or...

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## 5. Technical program

### Workshops (June 28): Supported by industry sponsors

#### □ Log, VSP & Seismic (Morning, June 28):

DHI in log and VSP, log and seismic tie, Anisotropy effect and more.

Chair: Xiaoming Tang (Baker Hughes), & Vivian Pistre (Schlumberger)

#### □ How We Invert Reservoir Properties (Afternoon, June 28):

Seismic inversion and imaging of thin-bedded reservoirs. What we gain from the modeling and inversion efforts? How we handle and estimate uncertainties? ....

Chair: Brian Russell (Hampson Russell) & Jeff Baldwin (Fugro-Jason)

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## 5. Technical program

### Abstract

- Extend abstract same as the SEG format
- Official language: English
- Abstract will be collected and distributed on CD-Rom

### Submit: [www.rpl.uh.edu/CSRPB](http://www.rpl.uh.edu/CSRPB)

- Deadline: Apr. 15**

### Meeting agenda:

- Due date: May 15 or early**



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## 6. Cost

### ❑ Registration fee (5 days)\*\* (a great deal):

- ❑ Delegate: \$400 (or ¥ 3,200)/person, spouse: \$200 (or ¥ 1,600)/person
- ❑ Short Course: \$150 (or ¥ 1,200) /person/day
- ❑ Exhibition booth: (not finalized)

\*Registration fee will cover meeting meals (include a banquet) , coffee breaks, ice breaker, a show, and pick up service from airport and possible a day tour

### ❑ Hotel: Jiuhua Spa Resort & Convention Center

- ❑ Standard room: Less than \$60 per day (meeting price)
- ❑ Facility for meeting, recreation, health club, restaurant....

For foreign guests: Send email to request an invitation letter for applying a VISA to China

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## 6. Cost

### ❑ Exhibition booth (24-28, June)

We have rent 200 m<sup>2</sup> space for exhibition. It is designed for illustrate company profile, products and a place for demonstration and business. The booth will open at noon and evening but closed when the meeting is in session. Exhibition will open to public

**❑ We have 10-12 exhibition unit for renting. Currently, 6 units has been reserved. Contact us if you want reserve one.**

❑ Cost: \$1,000 to 1,200 per unit (email: [dhan@uh.edu](mailto:dhan@uh.edu))

**❑ If company want to hold an evening meeting to show their product, we can help to make arrangement.**

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## 7. Sponsorship

### □ Financial Sponsors of oil companies and service companies

Class	Amount	Rights and Interests
<b>Titanium:</b>	> \$ 20,000	host unit, one free booth, a technical committee member
<b>Gold:</b>	> \$ 10,000	host unit, one free booth
<b>Silver:</b>	> \$ 5,000	acknowledged as a sponsor of the meeting
<b>Copper:</b>	> \$ 2,000	acknowledged as a sponsor of the meeting

- We need more financial sponsors
- We will up- date our sponsor list regularly

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## 7. Current Sponsors

(Welcome new sponsors)

### □ Society

- SEG, EAGE, SPG,

### □ Industry

- PetroChina (Titanium), Schlumberger (Titanium)
- Fugro-jason (Golden), Paradigm (Golden)
- Hampson Russell (CGG-Varitas) (Silver)
- Apex (Copper)

### □ Universities

- CUP, RPL of UH, CRA of CSM

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## 7. Current Sponsors



EAGE



中国石油

Schlumberger



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## 8. Project Schedule

- ❑ Dec. 2006, First preparatory meeting
- ❑ Jan. 2007, Set up organizing committee, technical committee,
- ❑ Feb. 2007, TLE advertisement and call for paper,
- ❑ Feb. 2007, Set up online website, online registration
- ❑ Apr.. 15, 2007, Due date for submitting abstracts
- ❑ May 15, 2007, Complete meeting agenda,
- ❑ May 15, 2007, Notices to attendees and payment for pre-registration (before May 31)
- ❑ June, 2007, Meeting activity
- ❑ July 2007, Meeting summary, financial report

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## 9. Other matters

### Meeting scale

- Optimum scale: 150 delegates; but not exceed 200 delegates;
- Delegates of sponsor and those with technical papers given priority to attend the meeting.

### Financial aid possible

- Application letter (email) required (Deadline: May 1, 2007)
- Award (May 15): **a.** waive registration fee. **b.** a + Hotel cost (5 days)
- Qualification: Students and Academia

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## 10. Registration

### ❑ Registration fee (5 days)\*\* (a great deal) before May 31.

❑ Delegate: \$400 (or ¥ 3,200)/person, spouse: \$200 (or ¥ 1,600)/person

\*\* Registration fee will cover following cost

1. ice breaker on the evening of June 24
2. meeting meals: Launch, dinner on June 25, 26, 27, 28, 29\*.
3. coffee breaks (twice a day)
4. an evening show during the meeting
5. pick up service from airport (On June 22-24. appointment required)
6. A souvenir gift
7. A tour (Great wall, Beijing...) on June 29\* (may be an option with additional cost, but not finalized ).

### ❑ Additional \$50/person charged after May 31

### ❑ Registration fee due after notice (May 1). No cancellation after May 31.



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## 10. Registration

### Short Course

- Short Course agenda: due on the March 1.
- cost: Delegate: \$150 (or ¥1,200)/person/day  
Student: \$30 (or ¥240)/person/day
- Limited seats available. Delegates have priority for registration
- no refund after May 31.

\*\*Course fee will cover course material (Cd-Rom), a lunch, coffee breaks,

# Thanks

Any questions: please contact

Dr. De-hua Han: [dhan@uh.edu](mailto:dhan@uh.edu)

Or

Dr. Feng-chang Yao: [fyao@petrochina.com.cn](mailto:fyao@petrochina.com.cn)