

# EAGE

EUROPEAN  
ASSOCIATION OF  
GEOSCIENTISTS &  
ENGINEERS

# EDUCATION DAYS BEIJING 2018

12-27 JULY 2018 | BEIJING, CHINA



**EAGE**   
**EDUCATION**

[www.LearningGeoscience.org](http://www.LearningGeoscience.org)

# Welcome to Beijing!

EAGE is pleased to invite you to visit Beijing for our Education Days Beijing 2018.



Dear Colleagues,

On behalf of the Board of the European Association of Geoscientists and Engineers (EAGE), I am pleased to introduce our multiple short course programme 'Education Days Beijing 2018', which will take place on 12-27 July 2018 in Beijing, China.

The event consists of multiple one-day and two-day short courses delivered by distinguished geoscientists and professionals. The courses are carefully selected to ensure a consistent programme with appeal to a broad geoscience and engineering audience. Multiple courses and topics are offered during the week, thus insuring that all attendees can customize an educational programme appropriate to their own needs and interests.

Education Days is an ideal platform to increase knowledge and awareness of new methodology for geoscience specialists. These short courses do not only reflect the latest scientific developments in geosciences, but also demonstrate applications of these theories to real-life problems.

I strongly encourage you to participate in one or more short courses during the EAGE Education Days in Beijing. I am sure that you will be positively surprised by the high quality and professionalism of the courses.

A handwritten signature in black ink that reads "Jörg Herwanger". The signature is fluid and cursive.

Jörg Herwanger | Education Officer (EAGE Board)

## Short Course Programme

12-13 JULY 2018

**SC 1: Rock Physics for Quantitative Seismic Reservoir Characterization** (岩石物理在定量地震储层描述中的应用)  
Prof Tapan Mukerji

12-13 JULY 2018

**SC 2: The Benefit of Broadband Technology for Reservoir Characterization and Imaging – the End-User Value**  
(宽频技术对储层表征和成像的益处:终端用户的价值)  
Dr Cyrille Reiser

26 - 27 JULY 2018

**SC 3: Simultaneous Sources: introduction to acquisition and processing and recent advances**  
(同时震源:采集和处理简介及最新进展)  
Dr. Craig J. Beasley

*Short course will be conducted in English. Translator service is available for all short course.*

## Accreditation

In March 2013 EAGE became the first official Continuing Professional Development (CPD) Provider of the "European Geologist" title, which is a professional accreditation established by the European Federation of Geologists (EFG). In order to obtain and maintain this title, the holder must provide a record of high quality CPD activities, which include the short courses like the ones presented in this brochure. For an overview of the provided points for EAGE Short Courses and for more information about this accreditation system and corresponding EAGE learning activities please visit [www.eage.org](http://www.eage.org) and [www.LearningGeoscience.org](http://www.LearningGeoscience.org).

## Sponsorship

Education Days Beijing 2018 offers excellent sponsorship opportunities to create high visibility. For more information, please refer to the EAGE website or contact Irene at [ing@eage.org](mailto:ing@eage.org).

## EAGE Economic Hardship Programme

EAGE recognizes the current challenging status of the industry and, priding itself on the inclusive character of the Association, now has a special economic hardship assistance programme in place to reach out to its members.

### EAGE Short Course discount

EAGE aims to assist its long-term members who are currently unemployed by providing contributions towards educational programmes. Under this element of the EAGE Economic Hardship Programme, members currently unemployed can attend public short courses at the Education Days Beijing for a discounted course fee equal 75 euros for either one- or two-day course. The discounted registration fee is the same as in another supported programme – EAGE Education Tours, where everyone can benefit from a discounted fee.

For more information we would like to refer you to the event website at [events.eage.org](http://events.eage.org)

## Registration fees

All fees include course material or lunch and coffee breaks.

### Two-day Course:

Registered and paid	Until 5 May	6 May – 6 July (SC1 & SC2) 6 May – 20 July (SC 3)
EAGE member	€ 625	€ 690
EAGE Student Member**	€ 238	€ 262
Non-member*	€ 730	€ 795
Student Non-Member**	€ 278	€ 302

\*Non-member fee includes EAGE Membership for 2018.

For online registration and group bookings, please refer to the event website at [events.eage.org](http://events.eage.org). All invoice amount billed or registration fee shown are net and exclusive of any type of tax.

\*\*To qualify for the reduced student registration fee:

- Students must be enrolled in a full time study programme at a recognized university or institute;
- The registration must be accompanied by a copy of a student ID card and/or official proof of enrollment;
- Please note: Student non-members can not be older than 34 years of age (when registering).

All invoice amount billed or registration fee shown are net and exclusive of any type of tax.

## DISCIPLINES



Geophysics



Geology



Reservoir Characterization



Near Surface



Engineering



Training and Development



“Our Education Days are an ideal platform to increase knowledge and awareness of new methodologies for geoscience specialists”

12-13 JULY 2018

## Rock Physics for Quantitative Seismic Reservoir Characterization (岩石物理在定量地震储层描述中的应用)

Prof. Tapan Mukerji, Stanford University



CPD Points: 10

*Short course will be conducted in English. Translator service is available for this short course.*

### Course Description

This course covers fundamentals of Rock Physics ranging from basic laboratory and theoretical results to practical “recipes” that can be immediately applied in the field. We will present quantitative tools for understanding and predicting the effects of lithology, pore fluid types and saturation, saturation scales, stress, pore pressure and temperature, and fractures on seismic velocity. We will present case studies and strategies for quantitative seismic interpretation and, suggestions for more effectively employing seismic-to-rock properties transforms in reservoir characterization and monitoring, with emphasis on seismic interpretation for lithology and subsurface fluid detection.

### Participants' Profile

The course is recommended for all geophysicists, reservoir geologists, seismic interpreters, and engineers concerned with reservoir characterization, reservoir delineation, hydrocarbon detection, reservoir development and recovery monitoring.

### About the instructor

Tapan Mukerji is an Associate Professor (Research) and co-director of the Stanford Center for Reservoir Forecasting at Stanford University, where he got his Ph.D. (1995) in Geophysics. His research interests include rock physics, geostatistics, wave propagation, and stochastic methods for quantitative reservoir characterization and time-lapse reservoir monitoring. Tapan combines experience in conducting leading edge research, teaching, and directing graduate student research. He was awarded the Karcher Award in 2000 by the Society of Exploration Geophysicists, and received the ENI award in 2014. He is an associate editor for Geophysics, journal of the Society of Exploration Geophysicists, and Computers and Geosciences. In addition to numerous journal publications, Tapan has co-authored The Rock Physics Handbook, Quantitative Seismic Interpretation, and The Value of Information in the Earth Sciences, all published by Cambridge University Press. He has been an invited keynote speaker and lecturer for numerous short courses on rock physics and geostatistics, in North and South America, Europe and Asia.



12-13 JULY 2018

### The Benefit of Broadband Technology for Reservoir Characterization and Imaging – the End-User Value

(宽频技术对储层表征和成像的益处:终端用户的价值)

Dr Cyrille Reiser (Petroleum Geo-Services, London, United Kingdom)



CPD Points: 5

*Short course will be conducted in English. Translator service is available for this short course.*

#### Course Description

The main aim of this course is to provide a very accessible overview of the many concepts behind broadband seismic (primarily offshore) and its implication for the reservoir focused asset based geoscientist. This will be done through the a very comprehensive set of case study material from all regions of the world and for various stages of the exploration, appraisal and development asset life cycle. The course aims to objectively discuss the various broadband seismic technologies and commercial offerings available today and their respective merits with regards to quantitative reservoir characterization and reservoir imaging using real world application examples. The course will further attempt to identify possible pitfalls and issues with regards to the treatment of broadband data that might lead to flawed or erroneous QI.

#### Participants' Profile

The course is designed for geoscientists with a basic level of geophysical knowledge, including a general knowledge of towed streamer acquisition and processing methods but the content is designed to be accessible for

most geoscientists working with or interested in using broadband seismic in their day-to-day working life. In other words, definitely no requirement for expert knowledge.

#### About the instructor

Dr Cyrille Reiser holds a Ph.D. from Lyon's Ecole Normale in France. After his PhD in 1998, he worked for 10 years with CGG prior to join and develop in end of 2008, the Reservoir Characterisation Group in PGS Reservoir. He is currently responsible globally for the Quantitative Interpretation Group in PGS. He has technical expertise in reservoir geoscience covering field such as seismic data conditioning, rock physics analysis, feasibility studies, pore pressure prediction, AVO/AVA analysis, seismic inversion and time-lapse analysis.

26-27 JULY 2018

### Simultaneous Sources: introduction to acquisition and processing and recent advances

(同时震源:采集和处理简介及最新进展)

Dr. Craig J. Beasley (Independent)



CPD Points: 10

*Short course will be conducted in English. Translator service is available for this short course.*

#### Course description

The concept of shooting seismic sources in an overlapping and interfering way to increase productivity and quality while reducing costs has been around for some time. Since it was reintroduced in the late 1990's this type of data acquisition and processing has received much attention

and has progressed to the point that it is now an accepted method under many circumstances. This course will provide an introduction, based on the history of the subject, to the necessary concepts to understand the benefits as well as challenges that still remain for simultaneous source data. The course will strive to achieve a balance between the practical and theoretical issues and will finish with a look at recent innovations that indicate the near future of this exciting new paradigm in seismic data acquisition.

#### **Participant profile**

The course will attract a wide variety of geophysicists with varied background. Some material is appropriate even for the non-geophysicist interested in the economics issues, however the ideal student will have a firm knowledge of conventional seismic acquisition and processing.

#### **About the instructor**

Craig completed B.S., M.S. and Ph.D. degrees in mathematics and then joined Western Geophysical 1981. He has spent his entire career in Schlumberger companies and their antecedents serving in various technical and management positions including VP for R&D and VP, Data Processing. He has received technical and honorary awards from entities such as Litton Industries, Schlumberger and

the Society of Exploration Geophysicists, among them the SEG Award for Best Presentation. He has twice received honorable mention for the Best Paper in Geophysics. He is an Honorary Member of the Society of Exploration Geophysics (SEG) and of the Geophysical Society of Houston and is a Foreign Member of the Russian Academy of Natural Sciences. He has presented papers and published widely on a variety of topics ranging from prestack imaging, migration, acquisition and the connections between acquisition, processing and imaging. He pioneered Simultaneous Source technology and has recently worked in broadband seismic techniques and new methods for sparse inversion. He was the 2001-2002 SEG 1st Vice President and the 2004-2005 President of the SEG. He served as the Fall 2009 SEG Distinguished Lecturer as well as the Esso Australia Distinguished Lecturer and as 2014 EAGE Distinguished Lecturer. He was the Founding Chair of the SEG Committee for Geoscientists without Borders. He has enjoyed postings in Singapore and Rio de Janeiro and now is in Houston, recently retired as Chief Geophysicist for WesternGeco and Schlumberger Fellow (Emeritus). In retirement, he has served as the General Chair for the 2017 SEG Annual Meeting in Houston and sits on the board of the SEG foundation and is enjoying pursuing his passion for underwater photography and video.

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