CALL FOR ABSTRACTS

SEG WORKSHOP

20–23 MAY 2018

BEIJING, CHINA

ROCK PHYSICS AND DIGITAL ROCK APPLICATIONS

Since the beginning of the 21st century, research topics and methods for oil and gas rock physics/ petrophysics have undergone significant changes. In pursuit of integrated and efficient exploration and development of unconventional resources (such as shale oil and gas, tight oil and gas), rock physics research has focused on the micro-pore structure of inorganic pores and organic matter, non-Newtonian flow, fracturing monitoring, mechanisms of micro-fracture network formation and characterization methods, and mechanisms of enhanced oil/gas recovery and applications. Based on the methods of digital rock and mineral composition characterization, fast numerical simulation, and big data and machine learning as new tools, rock physics research is now moving to the directions of microscopic, dynamic, nonlinear, multi-scale, and multi-source data fusion.

This workshop will highlight new ideas that are taking place in rock physics, focusing on unconventional oil/gas and new tools for micro-nano digital rock while discussing new methods, new theories, and new techniques that could be game-changers in the fields of rock physics for unconventional hydrocarbon accumulation, seismic reservoir prediction, logging formation evaluation, drilling and completion engineering, fracture network formation mechanism and monitoring, and more.

The workshop will feature world-class keynote presentations (such as Dr. Dirk Smit of Shell and Professor Dave Weitz of Harvard, etc), discussions, and brainstorming to further enhance the exchange among participants in the fast-advancing field of rock physics.

We look forward to your participation and contribution.

IMPORTANT DATES

Abstract submission opens on 1 January 2018
Abstract submission closes on 28 February 2018
Registration opens on 28 February 2018

ABSTRACT SUBJECTS

We invite abstracts for the following topics - oral and posters:

- Digital rock methods and applications (lab- and field-scale)
- Seismic rock physics
- Petrophysics for well logging formation evaluation
- Rock physics in drilling and well completion
- Fracture characterization experiments and methods

ORGANIZER:

SEG China

CO-ORGANIZERS:

China University of Petroleum (Beijing)
Harvard-CUPB Joint Laboratory

DEADLINE — 28 FEBRUARY 2018

CALL FOR ABSTRACT SUBMISSION

Please submit the abstract to: **china@seg.org**

ABSTRACT FORMAT

- Max four-page, one figure, and single column.
- Must be sufficiently explanatory for the committee to evaluate.
- Must be on 8.5 x 11 inch paper size, typed in Roman-font style, with 12 points size.
- Title must be one or two-line, at the top of the page, in bold font, with 12 points size.
- Authors must be listed in Roman-italic font, size 10 points, placed below the title.
- All text must stay one inch clear of the margins of the page.
- Submissions should be in Microsoft Word or Adobe Acrobat PDF format.

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二十一世纪以来，石油天然气岩石物理学的研究对象和研究手段已经发生、并且正在发生重大变革。以页岩油气、致密油气等非常规资源的一体化高效勘探开发为新目标，岩石物理学的研究对象向无机孔及有机质的微观孔隙结构、非牛顿渗流、压裂过程监测、缝网形成机理和表征方法、采收率的岩石物理主控因素与机制等应用的纵深方向发展。以微纳数字岩石、矿物成分表征、快速数值模拟、大数据及机器学习等为新工具，岩石物理学的研究手段向精细化、动态化、非线性、多尺度耦合、多源数据融合等方法的综合方向发展。岩石物理的新思想、新理论、新技术、新方法、新现象以及新应用不断涌现……

本次研讨会将突出岩石物理学正在发生的新思想，专注于非常规油气的新目标和微纳数字岩石的新手段，交流岩石物理在非常规油气成藏、地震储层预测、测井储层评价、钻完井工程、压裂缝网形成机制与监测……发明的新方法、获得的新认识、以及可能成为Game-Changer的新技术。届时，多位世界一流科学家的特邀报告（包括壳牌Dirk Smit博士以及哈佛大学Dave Weitz教授等专家）和讨论分享，将使与会者全面了解岩石物理学最新进展，并产生头脑风暴。我们期待您的参与，相信各位一定会不虚此行。

重要日期：

投稿开始日期为2018年1月1日
投稿截止日期为2018年2月28日
注册开始日期为2018年2月28日

摘要提交主题

1、数字岩石理论方法及应用
2、地震岩石物理和储层预测
3、测井岩石物理和储层评价
4、钻完井工程中的岩石物理
5、压裂裂缝实验与表征方法

主办单位：

SEG中国

协办单位：

中国石油大学（北京）
哈佛大学-中国石油大学（北京）联合实验室

投稿截止日期为2018年2月28日

稿件投递方式

请将稿件投递至**china@seg.org**

稿件格式要求

1、篇幅不超过4页（A4大小）
2、字体为Times New Roman, 字号12
3、标题加粗，字号12
4、作者及单位斜体，置于标题下方，字号10
5、正文单倍行距
6、稿件需为Word或PDF格式

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PRINT IN BLACK INK OR TYPE

☐Dr. ☐Mr. ☐Ms.

SEG ID# (if currently a member) _____

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Company/Organization _____

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Address listed: ☐Business ☐Home

Business Phone _____ Email: _____

Are you a student? ☐Yes ☐No

Subject _____ Presentation Type: ☐Oral ☐Poster ☐Both

NOTE: The mechanical recording of any portion of the SEG workshop in any form (photographic, electronic, etc.) is strictly prohibited. Printed reference to the workshop presentations or discussions is not permitted without the consent of the parties involved. All participants are requested to omit public reference to the workshop proceedings in any published work or oral presentation. Only registrants are permitted to attend workshop sessions. Each participant agrees to these regulations when application is accepted, as indicated by his or her signature on this form.

Signature _____ Date _____

Please email abstract by **28 FEBRUARY 2018** to:

china@seg.org

PHONE: +86 10 58205048

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