



Astonishing advancements in high performance computing has made running large-scale, computationally-intensive applications a daily practice in the oil and gas industry. Those include anisotropic depth imaging, especially anisotropic reverse-time migration, multi-parameter model building, full waveform inversion, and reservoir simulation, etc. In addition, high performance computing is also critical for the success of interactive applications in seismic data visualization, processing, and computational interpretation of large volumes. As the exploration targets grow increasingly challenging and the volume of seismic data become ever larger, the impact of HPC to the success of the petroleum industry grows in importance. This workshop will foster knowledge sharing in the implementations and applications of geophysical algorithms on high performance computing systems. Topics of presentations will also include recent advances and future trends in HPC, including its challenges and its impact on the Oil and Gas Industry; tools for integrated data analysis, visualization, simulation, and computing environments that provide end-to-end solutions are also encouraged to be shared.

ABSTRACT SUBJECTS

The technical sub-topics for the abstract submission:

- *HPC in seismic processing, model building & imaging*
- *HPC in reservoir characterization*
- *HPC in seismic data visualization*
- *HPC in seismic interpretation and interactive applications*
- *Data management and IO in HPC*
- *Data analytics and machine learning*
- *New developments and future trends of HPC:*
 - » *Cloud computing*
 - » *Programming models*
 - » *Hardware trends*
 - » *Portability of software and platforms*

DEADLINE - 1 June 2016

CALL FOR ABSTRACTS SUBMISSION:

The Call for Abstracts opens on 1 April 2016. The abstract should be no more than two pages and should strictly comply with the Workshop Abstract Template. The abstract can be submitted in either Microsoft Word or in PDF format to SEG China (Email:china@seg.org).

The proceedings of these abstracts will be provided to the participants, and will be published in SEG Digital Library. Presenters are invited, but not required, to share their slides or posters digitally after the workshop.

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Dr. Faqi Liu, Hess
Prof. Hong Liu, Institute of Geology and Geophysics, Chinese Academy of Sciences

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CALL FOR ABSTRACTS



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Note: The mechanical recording of any portion of the 2016 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.

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DEADLINE - 1 June 2016

Please e-mail your abstract to:
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