

Refereed Conference Papers

- Abdelnabi, A., **K.H. Liu**, and S.S. Gao, A full field static model of the RG-oil field, central Sirte Basin, Libya, *Society of Exploration Geophysicists annual meeting, extended abstract*, 2016.
- Abdelnabi, A., **K.H. Liu**, and S.S. Gao, Seismic attributes aided fault detection and enhancement in the Sirte Basin, Libya, *Society of Exploration Geophysicists annual meeting, extended abstract*, 2017.
- Zhang, T., Y. Lin, **K.H. Liu**, A. Alhakeem, and S.S. Gao, Fault visualization enhancement using ant tracking technique and its application in the Taranaki Basin, New Zealand, *Society of Exploration Geophysicists annual meeting, extended abstract*, 2017.

International, National, and Regional Conference Presentations

- Alhakeem, A., K.H. Liu, and W. Al-Bazzaz, Up-scaled petrophysical Analyses Using Micro-Level Field-Of-View Petrographic Images for the Kapuni Group, Taranaki Basin, New Zealand, 2017.
- Alhakeem, A., H. Almubarak, K.H. Liu, and W. Al-Bazzaz, 3D Seismic Attribute Analysis for Structure and Stratigraphy Identification, *New Zealand Petroleum Conference*, 2017.
- Reed, C.R., S.S. Gao, Y. Yu, **K.H. Liu**, P. Chindandali, H.S. Mdala, B. Massinque, and D.M. Mutamina, Inferences of complex anisotropic layering and mantle flow beneath the Malawi Rift Zone from shear-wave splitting, *American Geophysical Union Fall Meeting*, San Francisco, CA, 2016.
- Liu, L., **K.H. Liu**, and S.S. Gao, Lithospheric layering beneath southern Africa constrained by S-to-P receiver functions, *American Geophysical Union Fall Meeting*, San Francisco, CA, 2016.
- Sun, M.C., S.S. Gao, and **K.H. Liu**, Crustal thickness and Vp/Vs measurements using receiver functions: A global review, *American Geophysical Union Fall Meeting*, San Francisco, CA, 2016.
- Peng, Y.X., J. Wu, **K.H. Liu**, and S.S. Gao, Crustal structure beneath the eastern Tibetan Plateau from receiver functions, *American Geophysical Union Fall Meeting*, San Francisco, CA, 2016.
- Kong, F.S., S.S. Gao, and **K.H. Liu**, Stratification of seismic azimuthal anisotropy: Preliminary results from the contiguous United States, *American Geophysical Union Fall Meeting*, San Francisco, CA, 2016.
- Dahm, H.H., F.S. Kong, S.S. Gao, and **K.H. Liu**, Crustal and mantle anisotropy beneath Alaska inferred from shear-wave splitting analysis, *American Geophysical Union Fall Meeting*, San Francisco, CA, 2016.

- Abdelnabi, A., **K.H. Liu**, and S.S. Gao, A full field static model of the RG-oil field, central Sirte Basin, Libya, *Society of Exploration Geophysicists annual meeting, extended abstract*, 2016.
- **Liu, K.H.**, B.B. Yang, Y. Liu, and S.S. Gao, Seismic anisotropy beneath the contiguous United States from shear wave splitting analysis utilizing all the USArray and other stations, Paper No. 130-2, *Geological Society of America annual meeting*, 2016.
- Gao, S.S., and **K.H. Liu**, Rifting initiation through lateral variations of lithospheric basal stress beneath preexisting zones of weakness, Paper No. 229-1, *Geological Society of America annual meeting*, 2016.
- Gao, S.S., L. Liu, M. Sun, and **K.H. Liu**, Characterization of continental crust beneath the South-Central United States using reverberation-removed receiver functions, *Geological Society of America South-Central 50th annual meeting*, 2016.
- Liu, Y., S.S. Gao, and **K.H. Liu**, Seismic anisotropy associated with the Great Meteor hotspot track: Constraints from shear-wave splitting measurements, *Geological Society South-central section meeting abstract*, 2015.
- Reed, C.A., S.S. Gao, **K.H. Liu**, Y. Yu, B. Massingue, H. Mdala, P. Chindandali, and D. Mutamina, Lithospheric thickness induced modulation of mantle anisotropy beneath the Malawi and Luangwa rift zones from shear-wave splitting observations, *Geological Society South-central section meeting abstract*, 2015.
- Yao, S., F. Kong, **K.H. Liu**, and S.S. Gao, Crustal anisotropy beneath south-central Tibet revealed by P-to-S conversions from the Moho, *Geological Society South-central section meeting abstract*, 2015.
- Yu, Y., **K.H. Liu**, M. Moidaki, C. Reed, and S.S. Gao, Mantle transition zone discontinuities beneath the incipient Okavango Rift, *Geological Society South-central section meeting abstract*, 2015.
- Gao, S.S., and **K.H. Liu**, Receiver Function Investigations of Mantle Transition Zone Discontinuities beneath the Contiguous United States and Alaska, *International Workshop on the Frontiers of Geosciences and IPACCESS Annual Workshop*, Nanjing, China, 2015.
- Atekwana, E., K. Matende, M. Abdelsalam, K. Mickus, E. Atekwana, S.S. Gao, O. Sikazwe, **K.H. Liu**, and R. Evans, Crustal structure beneath the Luangwa Rift, Zambia: Constraints from potential field data, *Eos Trans. AGU, Fall Meet. Suppl.*, 2015.
- Dahm, H., S.S. Gao, **K.H. Liu**, and B.B. Yang, Mantle Transition Zone Discontinuities Beneath Alaska, *Eos Trans. AGU, Fall Meet. Suppl.*, 2015.
- De Almeida Goetze, B., Y. Yu, **K.H. Liu**, and S.S. Gao, Preliminary Observations of the Mantle Transition Zone Beneath South America from Non-Plane Wave Stacking of P-to-S Receiver Functions, *Eos Trans. AGU, Fall Meet. Suppl.*, 2015.
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- Liu, L., S.S. Gao, and **K.H. Liu**, Determining Crustal Structure beneath the New Madrid Seismic Zone and Adjacent Areas: Application of a Reverberation-removal Filter, *Eos Trans. AGU, Fall Meet. Suppl.*, 2015.
- Liu, Y.H., B.B. Yang, S.S. Gao, and **K.H. Liu**, Seismic anisotropy and mantle dynamics beneath the southeastern United States inferred from shear-wave splitting analysis, *Eos Trans. AGU, Fall Meet. Suppl.*, 2015.
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