

LIN Botao

Ph.D., Associate Professor, China University of Petroleum at Beijing

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Education

Ph.D., Civil Engineering, University of Oklahoma (USA), 2012

M.S., Geotechnical Engineering, Sun Yat-sen (Zhongshan) University (China), 2007

B.S., Geology, Sun Yat-sen (Zhongshan) University (China), 2005

Research Areas and Interests

Prediction of stress field and fracture network in shale reservoirs

Geomechanics and efficient recovery in heavy oil reservoirs

Deepwater foundations and pipeline geomechanics

Teaching

Mechanics of Materials; Continuum Mechanics; Engineering Mechanics-Statics

Professional Experiences

2014.06 - present, Associate Professor, China University of Petroleum at Beijing, China

2013.09 - 2014.06, Assistant Professor, China University of Petroleum at Beijing, China

2007.07 - 2012.12, Graduate Research Assistant, University of Oklahoma

Other Appointments

Associate Director, Department of Oil and Gas Well Engineering

Board Member, SPE North China International Section

Member, Chinese Society for Rock Mechanics and Engineering

Member, Society of Petroleum Engineers (SPE)

Member, American Rock Mechanics Association (ARMA)

Associate Member, American Society of Civil Engineers (ASCE)

Honors and Awards

2017, Outstanding Young Faculty Award, College of Petroleum Engineering, China University of Petroleum, China

2015, Young Engineering Talents Award, Chinese Society for Rock Mechanics and Engineering, China

2015, Outstanding Supervisor Award, China Petroleum Engineering Design Competition, China University of Petroleum, China

2013, Outstanding Young Faculty Award, China University of Petroleum, China

Selected Publications

1. Lin B, Chen SL*, Jin Y, 2017. Evaluation of reservoir deformation induced by water injection in SAGD wells considering formation anisotropy, heterogeneity and thermal effect. *Journal of Petroleum Science and Engineering (Elsevier)*. vol. 157, pp. 767-779.
2. Lin B*, Jin Y, Chen SL, 2017. A criterion for evaluating the efficiency of water injection in oil sand reservoirs. *Journal of Petroleum Science and Engineering (Elsevier)*. vol. 149, pp. 322-330.
3. Lin B*, Jin Y, Pang H, Cerato AB, 2016. Experimental investigation on dilation mechanisms of land facies Karamay oil sand reservoirs under water injection. *Rock Mechanics and Rock Engineering (Springer)*. vol. 49 (4), pp. 1425-1439.
4. Lin B*, Chen M, Jin Y, Pang H, 2015. Modeling pore size distribution of southern Sichuan shale gas reservoirs. *Journal of Natural Gas Science and Engineering (Elsevier)*. vol. 26, pp. 883-894.
5. Lin B, Cerato AB*, 2014. Application of SEM and ESEM in microstructural investigation of shale-weathered expansive soils along swelling-shrinkage cycles. *Engineering Geology (Elsevier)*. vol.177, pp.66-74.
6. Lin B, Cerato AB*, 2013. Hysteretic soil water characteristics and cyclic swell-shrink paths of compacted expansive soils. *Bulletin of Engineering Geology and the Environment (Springer)*. vol. 72 (1), pp. 61-70.
7. Lin B, Cerato AB*, 2013. Electromagnetic properties of natural expansive soils under one-dimensional deformation. *Acta Geotechnica (Springer)*. vol. 8(4), pp. 381-393.
8. Lin B, Cerato AB*, Madden AS, Elwood Madden, ME, 2013. Effect of fly ash on the mechanical behavior of expansive soils: microscopic analysis. *Environmental & Engineering Geoscience (GSA)*. vol. 19, pp. 85-94.