

Journal Publications

1. Rasool Y., Agrawal M., Shams R., **Ghosh S.**, Singh D. 2024. Evaluation of Seismic Hazard for northeastern Bihar (India): A Deterministic Approach. *Indian Geotechnical Journal*
2. Kumar V., **Ghosh S.**, 2024. Estimation of vertical permeability of Huglin sandstone from petrophysical well logs using ensemble methods – An enhanced machine learning approach. *Arabian Journal for Science and Engineering*
3. Sharma SK., Rani A., Bakhariya H., Kumar R., Tomar D., **Ghosh S.**, 2024. The Role of IoT in Optimizing Operations in the Oil & Gas Sector: A Review. *Transactions of the Indian National Academy of Engineering* (9), 293-312
4. Taghichian A., Hashemolhosseini H., **Ghosh S.**, Zaman M., Baghbanan A., Alireza E., 2023. Optimal core trip velocity ranges for major US shale plays. *International Journal of Petroleum Science and Technology*, 17(1), 13-59
5. **Ghosh S.**, Joshi D., Kiran R., Agrawal M., Chakraborty S.S., Yadav R., Kumar A., 2023. A review of reservoir oil-water transition zone characterization and potential recovery methods. *Geopersia*, 13 (2), 323-336
6. Aghaei H., Penkov G.M., Solomoichenko D.A., Toorajipour A., Petrakov D.G., Jafarpour H., **Ghosh S.**, 2023. Density-dependent relationship between changes in ultrasonic wave velocities, effective stress, and petrophysical-elastic properties of sandstone. *Ultrasonics*, 132 (2023), 106985
7. **Ghosh S.**, Kumar S., Khare S.K., Pandey S.K., 2022. Stability assessment of Siwalik rock slopes – A case study from Dehradun area, Uttarakhand, India. *Journal of the Geological Society of India*, 98 (2022), 1737–1744
8. **Ghosh S.**, Zargar Z., Bose S., Thakur G., 2022. Lessons learned from the integrated multifarious study of a poorly performing yet great quality oil reservoir: An example from Assam Basin, India. *Petroleum Science and Technology*, 40(17), 2101–2122
9. **Ghosh S.**, 2022. A review of basic well log interpretation techniques in highly deviated wells. *Journal of Petroleum Exploration and Production Technology*, 12 (2022), 1889–1906
10. Aghaei H., **Ghosh S.**, Behrgani K., 2020. Example of applied outcrop analysis and its significance as an analogue for surrounding giant gas-fields; case study of Kuh-e-Surmeh region, southwestern Iran; *Ore and Energy Resource Geology*, 5, 100010
11. Milad B., **Ghosh S.**, Slatt R.M., Marfurt K.J., and Fahes, M., 2020. Practical Aspects of Upscaling Geocellular Geological Models for Reservoir Fluid Flow Simulations: A Case Study in Integrating Geology, Geophysics, and Petroleum Engineering Multiscale Data from the Hunton Group; *Energies*, 13 (7)
12. **Ghosh S.**, Buseti S., and Slatt R.M., 2019. Analysis and prediction of stimulated reservoir volumes through hydraulic fracturing: Examples from western Arkoma Basin; *Journal of Petroleum Science and Engineering*, 182 (2019), 106338
13. **Ghosh S.** and Slatt R.M.; Tectonic joint size, abundance, and connectivity: Examples from Woodford Shale and Hunton Limestone, 2019; *Shale Shaker*, 70(3), 112-136
14. **Ghosh S.**, Galvis-Portilla H.A., Klockow C.M., and Slatt R.M., 2018. An application of outcrop analogues to understanding the origin and abundance of natural fractures in the Woodford Shale; *Journal of Petroleum Science and Engineering*, 164 (2018), 623-639
15. Alrefaee H., **Ghosh S.**, and Abdel-Fattah M., 2018. 3D seismic characterization of the polygonal fault systems and its impact on fluid flow migration: An example from the Northern Carnarvon Basin, Australia; *Journal of Petroleum Science and Engineering*, 167 (2018), 120-130
16. **Ghosh S.**, Hooker J.N., Bontempi C.P., and Slatt R.M., 2018. High-resolution stratigraphic characterization of natural fracture attributes in the Woodford Shale, Arbuckle Wilderness and US-77D Outcrops, Murray County, Oklahoma; *Interpretation*, 6(1), SC29-SC41
17. Milad B., **Ghosh S.**, and Slatt R.M., 2018. Comparison of rock and natural fracture attributes in karsted and non-karsted Hunton Group Limestone: Ada and Fittstown area, Oklahoma; *Shale Shaker*, 69 (2), 70-86
18. **Ghosh S.**, Milad B., Prasun S., and Ghosh S.S., 2018. Origin and Characterization of Joints in Sedimentary Rocks: A Review; *Petroleum & Petrochemical Engineering Journal*, 2 (5), 1-12
19. Prasun S. and **Ghosh S.**, 2018. A new analytical model of ultimate water cut for light oil reservoirs with bottom- water; *Journal of Oil, Gas and Petrochemical Sciences*, 1 (3), 74-81

Full Paper Conference

1. Sharma P., **Ghosh S.**, Joshi N., Srivastava D.K., 2023. Natural fracture parameterization and connectivity in Rohtas Limestone, Vindhyan Basin, Central India. *AIP Conference Proceedings*, 2855 (1), 40004
2. **Ghosh S.**, Sharma S., Kukreti A., Das S., Saini D., Rawat A., 2023. A comparative study of potentially productive Indian shale plays. *AIP Conference Proceedings*, 2855 (1), 40001
3. Sen D., Chowdhury D., Mandal PP., **Ghosh S.**, 2023. An Automated Python Script-Based Platform for CCS Screening Feasibility of Subsurface Geological Formations. *Society of Petroleum Geophysicists, India*, 14 (2023), 1-5
4. Sharma P., **Ghosh S.**, Tandon A., 2022. Study of CO₂ injection in a depleted oil reservoir using geomechanically coupled and non-coupled simulation models. *Materials Today: Proceedings*, 57 (4), 1805-1512
5. Patidar A.K., **Ghosh S.**, Thakur N.K., Sharma A, Baliyan A, 2021. A review and comparative analysis of effectively functionalized eco-friendly and biodegradable nanoparticle based additives for drilling muds. *Material Today: Proceedings*, 57 (4), 1598-1604
6. Milad B., **Ghosh S.**, Suliman M., Slatt R.M., 2018. Upscaled DFN models to understand the effects of natural fracture properties on fluid flow in the Hunton Group tight Limestone; *Unconventional Resource Technology Conference*, 1-6; College Station, TX, USA
7. **Ghosh S.**, Rai C.S., Sondergeld C.H., Larese R.E., 2014. Experimental investigation of proppant diagenesis;
8. *SPE/CSUR Unconventional Resource Conference*, 1-23; Calgary, AB, Canada

Oral Conference

- **Ghosh, S.**; Multiscale natural fracture dimensions in the Woodford Shale, 2017. *AAPG Southwest Section Meeting*; 1-18; Midland, TX, USA
- **Ghosh, S.**, Busetti, S; Prediction of hydraulic fracture damaged zone geometries in the Woodford Shale in Arkoma Basin using discrete fracture network models, 2017. *AAPG Southwest Section Meeting*, 1-25; Midland, TX, USA