Today, the United States is the world’s largest oil and gas producer. Production is about 25MM BOE/day and increasing due to expanded development of the numerous unconventional oil and gas reservoirs located in various parts of the country. Despite the success of horizontal drilling and multi-stage hydraulic fracturing in unlocking production from extremely low permeability reservoirs, recovery factors remain stubbornly low (typically less than 10% for tight oil and around 25% for gas) and wells deplete rapidly over a 2-3 year period. In this context, Stanford’s Natural Gas Initiative is engaging a new unconventional reservoirs focus area to conduct research that will address improved recovery from these critically important reservoirs.

**Key Topics to be Addressed**

1. Reservoir Characterization and Play Delineation
2. Improving Recovery Factors
3. Utilization of Machine Learning and Data Analytics
4. Basin Modeling
5. Reservoir Simulation and Physics of Flow
6. Unconventional Reservoir Geomechanics

For information on attendance or to learn about Stanford industrial affiliates programs please contact NGI Managing Director Brad Ritts (ritts@stanford.edu). 
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