

Center for Subsurface Modeling (CSM)
 Industrial Affiliates Meeting Agenda
 April 11-12, 2018

| Day 1 | |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8:30-9:00 AM | Overview of Center for Subsurface Modeling Activities 2017-2018 Mary F. Wheeler, CSM, UT Austin |
| 9:00-9:30 AM | Space-Time Adaptivity for Non-Linear, Multiphase Flow, and Transport Problems Gurpreet Singh, CSM, UT Austin |
| 9:30-10:00 AM | Adaptive Mesh Refinement with the Enhanced Velocity Method Benjamin Ganis, CSM, UT Austin |
| 10:00-10:30 AM | Coffee Break |
| 10:30-11:00 AM | Phase Field Modeling Approach for Hydraulic Fracturing in Porous Media Sanghyun Lee, Florida State University |
| 11:00-11:30 AM | Computational Homogenization for Heterogeneous Porous Solids Saumik Dana, CSM, UT Austin |
| 11:30-12:00 PM | Use of Interferometric Synthetic Aperture Radar (InSAR) for Characterizing Confined Aquifer Water Levels and Aquifer Properties Ann Chen, Center for Space Research, UT Austin |
| 12:00-1:00 PM | Lunch |
| 1:00-1:45 PM | JIP Discussion: Innovative Tools for a Changing Paradigm Dan Bossie-Codreanu, Matthieu Delorme, Institute for French Petroleum |
| 1:45-2:30 PM | JIP Discussion: Data Analysis and Uncertainty Assessment of Unconventional Production Sanjay Srinivasan, Pennsylvania State University |
| 2:30-3:00 PM | Coffee Break |
| 3:00-3:45 PM | JIP Discussion: Simulation of Unconventional Reservoirs from Sublime to Ridiculous John Killough, Texas A&M University |
| 3:45-4:30 PM | JIP Discussion: Diffusive Fracture Network Representations in Tight Formations Mary F. Wheeler, CSM, UT Austin |
| 4:30-5:30 PM | Poster Session |
| 6:00-7:30 PM | Food and Discussion at Harry Ransom Center |

Center for Subsurface Modeling (CSM)
 Industrial Affiliates Meeting Agenda
 April 11-12, 2018

| Day 2 | |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| 8:30-9:00 AM | Surfactant Flooding in Tight Oil Reservoirs Mohammad Lotfollahi, CSM, UT Austin |
| 9:00-9:30 AM | Numerical Simulations of Gas Mobility Control Techniques During Carbon Sequestration/EOR in Cranfield Xueying (Cherie) Lu, CSM, UT Austin |
| 9:30-10:00 AM | Reservoir-Fractures Coupling Using Phasefield Diffusive Zone Representation Mohamad Jammoul, CSM, UT Austin |
| 10:00-10:30 AM | Coffee Break |
| 10:30-11:00 AM | Von Neumann Stable, Implicit Finite Volume WENO Schemes of High Order Todd Arbogast, CSM, UT Austin |
| 11:00-11:30 AM | Multiscale Finite Element Methods for Black Oil Model Wingtat Leung, CSM, UT Austin |
| 11:30-12:00 PM | Numerical Simulation of Carbonate Matrix Acidizing Using Adaptive Enriched Galerkin Methods Rencheng Dong, CSM, UT Austin |
| 12:00-1:00 PM | Lunch |
| 1:00-2:00 PM | Wrap-up and Discussion Mary F. Wheeler, CSM, UT Austin |