

Session Program

14-17 May 2018



INTERPORE

InterPore 10th Annual Meeting and Jubilee
May 14-17 2018, New Orleans, USA
interpore.org/neworleans

LSU Tulane University



InterPore2018 New Orleans

Parallel 8-G

New Orleans

Wednesday 16 May

14:35

Parallel 8-G

Session | **Location:** New Orleans

14:37–14:52 **High order methods for the simulation of viscous fingering**

Speaker

Beatrice Riviere

14:55–15:10

Enriched Galerkin for Darcy flow, reactive transport and elastic wave propagation

Speaker

Mary Wheeler

15:13–15:28

High-order space-time approximations of dynamic poroelasticity models

Speaker

Dr Uwe Koecher

15:31–15:39 **Short Break**

15:40–15:55 **Weak Galerkin Method and Its Applications**

Speaker

Prof. Xiu Ye

15:58–16:13 **Numerical methods for non-equilibrium porous media flow models**

Speaker

Iuliu Sorin Pop

16:16–16:31

A linearly stable, implicit WENO scheme applied to two-phase flow in porous media

Speaker

Todd Arbogast

16:34–16:49

A Higher-Order Central-Upwind Scheme for Multiphase Flow in Heterogeneous Porous Media

Speaker

Dr Maicon Correa

16:52–16:54

Challenges to understanding water imbibition under microgravity by numerical simulation.

Speaker

Mr Naoto Sato

16:55–16:57

Constitutive Relations for a New Theoretical Framework Describing 2-Phase-Flow in Porous Media

Speaker

Dr Mathias Winkler

16:58–17:00

The influence of fracture on the gas reservoir development by the seepage experiment**Speaker**

Mrs Chunyan Jiao

17:01–17:03

Instability Analysis of Poiseuille Flow of Suspensions Overlying Porous Media**Speaker**

Dr Indika Udagedara

17:04–17:06

Quaternions Formulation of Linear Thermoporoelasticity**Speaker**

Mario-Cesar Suarez-Arriaga

17:07–17:09

Enriched Galerkin with Direct Serendipity Elements on Quadrilaterals for Two-Phase Flow in Porous Media**Speaker**

Dr Zhen (Jane) Tao

17:10–17:12

Empty pitch slot

17:13–17:15

Accuracy of WENO and Adaptive Order WENO Reconstructions for Solving Conservation Laws**Speaker**

Ms Xikai Zhao

17:15