Keynote Speakers

Room: Illinois Ballroom

Monday, June 18

8:45-9:45 — Mike Celia Princeton University
"Practical Models for Large-scale CO2 Sequestration"

1:00-2:00
Marc Parlange Ecole Polytechnique Federal de Lausanne, Switzerland
"Environmental Fluid Mechanics in Alpine Environments"

Tuesday, June 19

8:30-9:30 — Jan Hesthaven Brown University
"High-Order accurate methods for free surface flows using high-order Boussinesq models"

Lunch Presentation — Wen-mei Hwu, University of Illinois at Urbana-Champaign
"Introduction to Heterogeous Computing"

1:15-2:15 — S. Majid Hassanizadeh Utrecht University
Advances in theories of two-phase flow in porous media; Theoretical, computational, and experimental studies

Wednesday, June 20

8:30-9:30 — Margot Gerritsen Stanford University
"Playing the Scales: A view on upscaling, multi-scale methods and mesh adaptation"

1:15-2:15 — William Gropp University of Illinois at Urbana-Champaign
"The Next Generation of High Performance Computing"

Thursday, June 21

8:30-9:30 — Jasper Vrugt University of California, Irvine
"An Alternative Blueprint for Hydrologic Modeling and Uncertainty Analysis"

1:15-2:15 — Joannes Westerink University of Notre Dame
"Forecasting Hurricane Waves, Storm Surge, and Currents: Physics, Algorithms, Scalability, and Validation"