1st International Symposium on
Energy Challenges & Mechanics

8-10 July 2014
Aberdeen, Scotland, UK

Keynote Speaker of Session 04

RESERVOIR SIMULATION

Dept of Civil & Environmental Engineering
E230, Engineering Quad
Princeton University
Princeton, NJ 08544-5263
Phone: (609) 258-5424
Fax: (609) 258-2760
Email: prevost@princeton.edu

Qualifications:

Jean H. Prévost has over 35 years of experience in the areas of computational solid mechanics, wave propagation and transient effects in porous media, nonlinear constitutive theories, dynamic instabilities and localization of deformations in solids, thermo-elasticity, electro-magneto-solid interaction effects and finite element methods. He is currently doing research on topology optimization, delayed fracture in MEMS, cracks propagation in microstructures, and reservoir models for CO2 sequestration in deep saline aquifers. He has published over 250 technical papers in refereed journals and Conference Proceedings.

Past Accomplishments:

DYNAFLOW™ – A Nonlinear Transient Finite Element Analysis Program (1983-present)
DYNA1D - A Computer Program for Nonlinear Seismic Site Response Analysis (1989)
Centrifuge Soil Laboratory - Princeton University, 10-g ton capacity, (Jan. 1981 – 1999)
Computational Laboratory - Princeton University, 88 64bits processors Beowulf cluster (2001-present)