Workshop on Applied & Computational Mathematics  
Honoring Roland Glowinski’s 80th Anniversary  

Thursday, March 9, 2017  
PGH 646

Program

10:00—10:10 A.M. - Opening:  
M. Nicol (Chair, Department of Mathematics, University of Houston)

10:10—11:00 A.M. - Methodologies and Robust Algorithms for Subsurface Simulation:  
M.F. Wheeler (University of Texas at Austin)

11:00—11:20 A.M. - Coffee Break

11:20—11:50 A.M. - Numerical Methods for Coupled Flow and Geomechanics:  
B. Riviere (Rice University)

11:50 A.M.—12:20 P.M. - Surface Acoustic Wave Actuated Phase Separation on Lipid Membranes:  
R. Hoppe (University of Houston)

12:20—1:40 P.M. - Lunch Break

2:00—2:30 P.M. - Second-order and Well-balanced Approximation of the Shallow Water Equation Using Continuous Finite Elements:  
J.L. Guermond (Texas A&M University)

2:30—3:00 P.M. - Efficient Modeling of Incompressible Fluid Dynamics at Moderate Reynolds Number & LES:  
A. Quaini (University of Houston)

3:00—3:30 P.M. - The SVD of the Poisson Kernel:  
G. Auchmuty (University of Houston)

3:30—4:00 P.M. - Coffee Break

4:00—4:30 P.M. - Bilayer Plates: Numerical Methods in the Realm of Micro-scale Devices:  
A. Bonito (Texas A&M University)

4:30—5:00 P.M. - Distributed Lagrange Multiplier/Fictitious Domain Methods for Simulating Particle Motion in Viscoelastic Fluids:  
T.W. Pan (University of Houston)

5:00—5:30 P.M. - Shape Deformations and Nonlinear Control: A Houston Based Collaboration with Roland Glowinski:  
R. Azencott (University of Houston)