

Thursday 3/26

07:30- Breakfast [Copper Conference Center]
08:30

08:00- Session 14A: Asynchronous and Randomized Algorithms. Bighorn B	08:00- Session 14B: Software Aspects. Bighorn C/1	08:00- Session 14C: Discretizations. Bighorn C/2
<p>08:00 Smoothing by asynchronous iterations and sparse approximate inverses for fluid dynamics on graphics processing units Aditya Kashi <small>Siva Nadarajah</small></p> <p>08:25 Redundancy as a Remedy for Delayed Communication in Asynchronous Solvers Aaron Barrett <small>Alyson Fox</small></p> <p>08:50 Dynamic Non-Uniform Randomization in Asynchronous Linear Solvers Masha Sosonkina <small>Evan Coleman, Erik Jensen</small></p> <p>09:15 —</p>	<p>08:00 Improving Hypre’s semi-structured support Victor Paludetto Magri <small>Ulrike Meier Yang, Robert Falgout</small></p> <p>08:25 xSDK: Toward a Community Software Development Kit (SDK) for High-Performance Computational Science Sarah Osborn <small>Ulrike Yang</small></p> <p>08:50 Finite Element Tools for Performance Portability of Implicit and IMEX Simulations on Next Generation Architectures Roger P. Pawlowski <small>Matthew T. Bettencourt, Eric C. Cyr, Sean T. Miller, Edward G. Phillips, Eric T. Phipps, Nathan V. Roberts, John N. Shadid, Christian R. Trott</small></p> <p>09:15 —</p>	<p>08:00 Adaptive Space-Time CFOSLS for Evolution Equations Andreas Schafelner <small>Panayot S. Vassilevski</small></p> <p>08:25 An Adaptive Newton Div-Curl Least-Squares Finite Element Method for the Cahn-Hilliard Equation Chad Westphal</p> <p>08:50 New mixed methods for incompressible hyperelasticity in terms of Kirchhoff stress Ricardo Ruiz-Baier</p> <p>09:15 Condensed Nonconforming Reformulations for Preconditioning Finite Element Discretization Problems Delyan Kalchev <small>Panayt Vassilevski</small></p>

10:05- Coffee \& Tea Service
10:25

10:25- Session 15A: Iterative Methods in Applications. Bighorn B	10:25- Session 15B: Preconditioning. Bighorn C/1	10:25- Session 15C: Inverse Problems. Bighorn C/2
10:25 A System of Semilinear Singularly Perturbed Convection-Diffusion type Varsha Srivastava	10:25 Block Preconditioning for Implicit Runge-Kutta Methods for Time-Dependent Victoria Howle Katharine Long, William Milestone, Md Masud Rana, Ashley Meek	10:25 Hyper-Differential Sensitivity Analysis for Inverse Problems. Bart van Bloemen Waanders Isaac Sunseri, Joseph Hart, Alen Alexanderian
10:50 Unconstrained Energy Functional Methods for Massively Parallel Iterative Eigensolvers Andrew Canning Mauro Del Ben, Osni Marques	10:50 Block preconditioners for the coupled Darcy-Stokes problem Michele Benzi	10:50 INCISIVE DVF INVERSION VIA BI-RESIDUAL FEEDBACK Abhishek Dubey Alexandros-Stavros Iliopoulos, Xiaobai Sun
11:15 Generation of compressed stationary fields with circulant embedding Robert Sawko Malgorzata Zimon	11:15 —	11:15 —