Wednesday 3/25

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

08:00- 10:05	Session Bighorn	า 11A: Optimization Methods. . ก B	08:00- 10:05	Session Bighorn	11B: Low-rank methods.	08:00- 10:05		11C: Multigrid Algorithms and their nance on GPU Platforms.
	08:00	Analysis of the sensitivity of output wave height to input bottom friction and bathymetry in the coastal wave model STWAVE Daniel Reich Matthew Farthing, Tyler Hesser, Carl Kelley, Matthew Parno		08:00	Krylov Methods for Low-Rank Regularization Chang Meng Silvia Gazzola, James Nagy		08:00	Algebraic Multigrid Methods for Large- Scale Electromagnetic Particle-in-Cell Simulations Jonathan Hu Christian Glusa, Paul Lin, Matt Bettencourt, Edward Phillips
	08:25	Sparse trigonometric interpolation with applications to computational chemistry Zack Morrow Miroslav Stoyanov, Chang Liu, C. T. Kelley, Elena Jakubikova		08:25	A Low-Rank Solver for the Unsteady Navier-Stokes Equations Howard Elman Tengfei Su		08:25	MueLu's SA-AMG implementation and performance on GPUs Luc Berger-Vergiat Jonathan Hu, Christian Glusa, Christopher Siefert
	08:50	Regularized Non-linear Least-Squares Unconstrained Minimization Method for High-order Finite-Element Implicit Shock-Fitting in Space-Time Robert Nourgaliev Andrew Corrigan, Andrew Kercher, Patrick Greene, Steven Wopschall		08:50	Low-rank plus sparse matrices: ill- posedness and guaranteed recovery Jared Tanner Simon Vary		08:50	One-Reduce FGMRES-AMG with Two- Stage Gauss-Seidel Smoothers on GPU Kasia Swirydowicz Stephen Thomas, Ichi- taro Yamazaki, Julien Langou, Daniel Bielich
	09:15	A Projected Newton-Krylov Method for Large-Scale Bound-Constrained Opti- mization Problems Kelvin Kan Samy Wu Fung, Lars Ruthotto		09:15	A low-rank matrix equation method for solving PDE-constrained optimiza- tion problems Alexandra Buenger Valeria Simoncini, Martin Stoll		09:15	Recent Development of Multigrid Solvers in HYPRE on Modern Heteroge- neous Computing Platforms Robert Falgout Ruipeng Li, Bjorn Sjogreen, Ulrike Yang
	09:40	Energy Function Approach to the Time- Varying Optimal Gas Flow Aleksandr Lukashevich Yury Maximov, Michael Chertkov		09:40	Randomized Iterative Methods for Low Rank Matrix Approximation Azzam Allan Struthers, Benjamin Ong		09:40	Robust Structured Multigrid on GPUs: Leveraging legacy kernels in the Cedar Framework Andrew Reisner David Moulton, Luke Ol- son

10:25- 12:30	Session 12A: Multilevel Methods. Bighorn B		10:25- 12:30	Session 12B: Data Science and Graph Algorithm Applications. Bighorn C/1		10:25- 12:30	Session 12C: Nonlinear Problems. Bighorn C/2	
	10:25	p-Multigrid with Partial Smoothing: An Efficient Preconditioner for Discontinu- ous Galerkin Discretizations with Modal Bases Christopher Thiele Beatrice Riviere		10:25	Iterative Solution Methods for Nonnegative Matrix Factorizations Matthias Bollhoefer		10:25	A Rational Approximation Method fo Large-Scale Nonlinear Eigenvalue Prob lems Agnieszka Miedlar Mohamed El-Guide Yousef Saad
	10:50	Non-overlapping block smoothers for the Stokes equations Lisa Claus Matthias Bolten		10:50	A Multilevel Subgraph Preconditioner for Linear Equations in Graph Laplacians Junyuan Lin Xiaozhe Hu		10:50	Nonlinear Solvers for Two-specie Neutrino-matter Equations in Core Collapse Supernovae Simulations Paul Laiu Eirik Endeve, Austin Harris, Rai Chu
	11:15	Expressing AMG Interpolation in Terms of Sparse Matrix-Matrix Multiplications Rob Falgout Ruipeng Li, Bjorn Sjogreen, Ulrike Yang		11:15	Parallel spectral partitioning on multi- ple GPUs Erik G. Boman Seher Acer, Siva Rajaman- ickam		11:15	Optimal Asymptotic Convergence Rates for Nesterov and Anderson Acceleration with Application to Tensor Decomposition Yunhui He Hans De Sterck
	11:40	Parallel-in-time simulation of biofluids Weifan Liu Minghao Rostami		11:40	Mixed-Precision Arithmetic for Graph Clustering and Graph Ranking Lucia Yang Alyson Fox, Geoffrey Sanders		11:40	A new quasi-Newton method for black-box system with a physics-based surrogate Toon Demeester E. Harald van Brumme len, Rob Haelterman, Joris Degroote
	12:05	_		12:05	Computing a posteriori error estimates for algebraic multigrid methods on graphs Xiaozhe Hu Kaiyi Wu, Ludmil Zikatanov		12:05	

16:00- 16:30	Coffee \	& Tea Service					
16:30- 18:10	· · · · · · · · · · · · · · · · · · ·						
	16:30	BiLQ: An Iterative Method for Nonsymmetric Linear Systems with a Quasi-Minimum Error Property Alexis Montoison Dominique Orban					
	16:55	Predict-and-recompute Conjugate Gradient Variants Tyler Chen					
	17:20	Optimizing MGRIT and Parareal coarse-grid operators for linear advection Oliver Krzysik Hans De Sterck, Robert Falgout, Stephanie Friedhoff, Scott MacLachlan					

18:30-	Cash Bar at Grand Hall- Copper Station
19:00	Bighorn B
19:00- 21:30	Conference Banquet Grand Hall- Copper Station