2 <sup>nd</sup> SEEC Workshop (January 19, 2015)	Torgersen Hall 1020
Workshop Introduction, Opening Comments, and Discussion	8:45 - 8:55 AM
<ul> <li>Session 1: Systems Modeling and Provisioning</li> <li>Enabling Efficient Power Provisioning for Enterprise Applications         Balaji Subramaniam, Ph.D. Student</li> </ul>	8:55 AM - 10:10 AM
	(25 min)
Runtime Power Modeling to Enable Energy Optimizations in GPGPUs     Vignesh Adhinarayanan, Ph.D. Student	(25 min)
<ul> <li>Cognizant Networks: A Communication Model for Context-Aware Systems Umar Kalim, Ph.D. Student</li> </ul>	(25 min)
Break and Discussion	10:10 AM - 10:20 AM
Session 2: Libraries and Frameworks  • CU2CL: Automated Source-to-Source Translation from CUDA to OpenCL Paul Sathre, Research Staff Member  • Aeromancer: A Workflow Manager for Large-Scale MapReduce-Based Scientific	10:20 AM - 11:30 AM (25 min) Workflows
Sarunya (Kwang) Pumma, Ph.D. Student  • A Framework of Automatic SIMDization on x86-based Manycore Processors	(15 min)
<ul> <li>Kaixi Hou, Ph.D. Student</li> <li>MetaMorph: A Modular Library of Malleable Accelerator Primitives for Heteroge Paul Sathre, Research Staff Member</li> </ul>	(25 min) eneous Parallel Computing (15 min)
Lunch Break	11:30 AM - 12:30 PM
<ul> <li>Session 3: Unstructured/Irregular Computation</li> <li>Eliminating Irregular Patterns for Compressed Sparse Matrix Primitives on Multi-Hao Wang, Research Associate</li> <li>Transforming Irregular Algorithms for Heterogeneous Computing: Case Studies Jing Zhang, Ph.D. Student</li> <li>Unstructured Search and Graph Analysis in Big Data Harold Trease, Senior Research Scientist</li> </ul>	(25 min)
Break and Discussion	1:45 PM - 1:55 PM
Session 4: Dwarfs to Applications: Parallelization and Optimization, Part I  On the Programmability and Performance of Parallel Platforms for Common Idia	1:55 PM - 2:50 PM
<ul> <li>On the Programmability and Performance of Parallel Platforms for Common Idia Konstantinos Krommydas, Ph.D. Student &amp; ICTAS Fellow</li> <li>O3FA: A Finite Automata-based Pattern Matching Engine for Out-of-Order Packet</li> </ul>	(25 min)
Xiaodong Yu, Ph.D. Student  • Optimizing the "Be the Data" Application in ICAT Cube	(15 min)
Sajal Dash, Ph.D. Student	(15 min)
Break and Discussion	2:50 PM - 3:00 PM
Session 5: Dwarfs to Applications: Parallelization and Optimization, Part II  • Accelerating the Detection of Insertions and Deletions in Short-Read Sequence D	
Da Zhang, Ph.D. Student  • Performance Optimization of Structured-Grid Computation on GPUs  Yugwon (Harry) Cui. Ph.D. Student	(15 min)
<ul> <li>Xuewen (Harry) Cui, Ph.D. Student</li> <li>Performance Characterization for CFD Across Multiple Platform         Islam Harb, Ph.D. Student     </li> </ul>	(15 min) (25 min)
Wrap-Up Discussion and Q&A (Led by Hao Wang and Senior Graduate Students)	3:50 PM - 4:30 PM
Tap of Discussion and Seri (nearly had wang and senior dradate students)	5.501 M - T.501 M