



Ohio Supercomputer Center

SUG

Statewide Users Group

Fall Conference
October 4th, 2018



Ohio Supercomputer Center

An **OH·TECH** Consortium Member

Agenda

Thursday, October 4th

9:00–10:00 am	Breakfast Assortment Hardware Committee Software Committee	BALE Area 204 Conference Room 350 Conference Room
10:00–11:00 am	Breakout Sessions: Pitzer Information Session OSC Campus Champions Data Analytics Client Portal	204 Conference Room 200 Conference Room BALE Conference Room 208 Conference Room
11:00–11:45 am	OSC: Welcome and Presentation	BALE Theater
11:45 am–12:00 pm	Lunch Pick-up	BALE Lobby
12:00–12:55 pm	Keynote Speaker: Russ Fromkin	BALE Theater
1:00–1:50 pm	Flash Talks Session 1	BALE Theater
2:00–2:50 pm	Flash Talks Session 2	BALE Theater
3:00–4:45 pm	Poster Session Hors d'Oeuvres Networking	BALE Lobby
4:45 pm	Poster and Flash Talk Winner Announcement	BALE Theater

Flash Talks

Session 1

1. Molecular model development with accurate charge distributions for gaseous adsorption in porous materials
Eun Hyun Cho | The Ohio State University
2. Molecular Dynamics and Umbrella Sampling Simulations Elucidate Differences in Troponin C Isoform and Mutant Hydrophobic Patch Ex
Jacob Bowman | The Ohio State University
3. Stellar explosions at OSC
Shiv Subedi | Ohio University
4. Disentangling the process of speciation using machine learning
Megan Smith | The Ohio State University

Session 2

5. Optimized Molecular Mechanics Protein Potential Improves Dynamics of Intrinsically Disordered Proteins
Lei Yu | The Ohio State University
 6. Modeling of Failure Mechanisms for Flood Control Systems in a Hydrodynamic Storm Surge Model
Dylan Wood | The Ohio State University
 7. Genomic signatures of convergent adaptation in semiaquatic mammals
Drew Duckett | The Ohio State University
 8. Computational Modeling of Cooldown of an Engine Mount
Navni Verma | The Ohio State University
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Keynote Address

Russ Fromkin

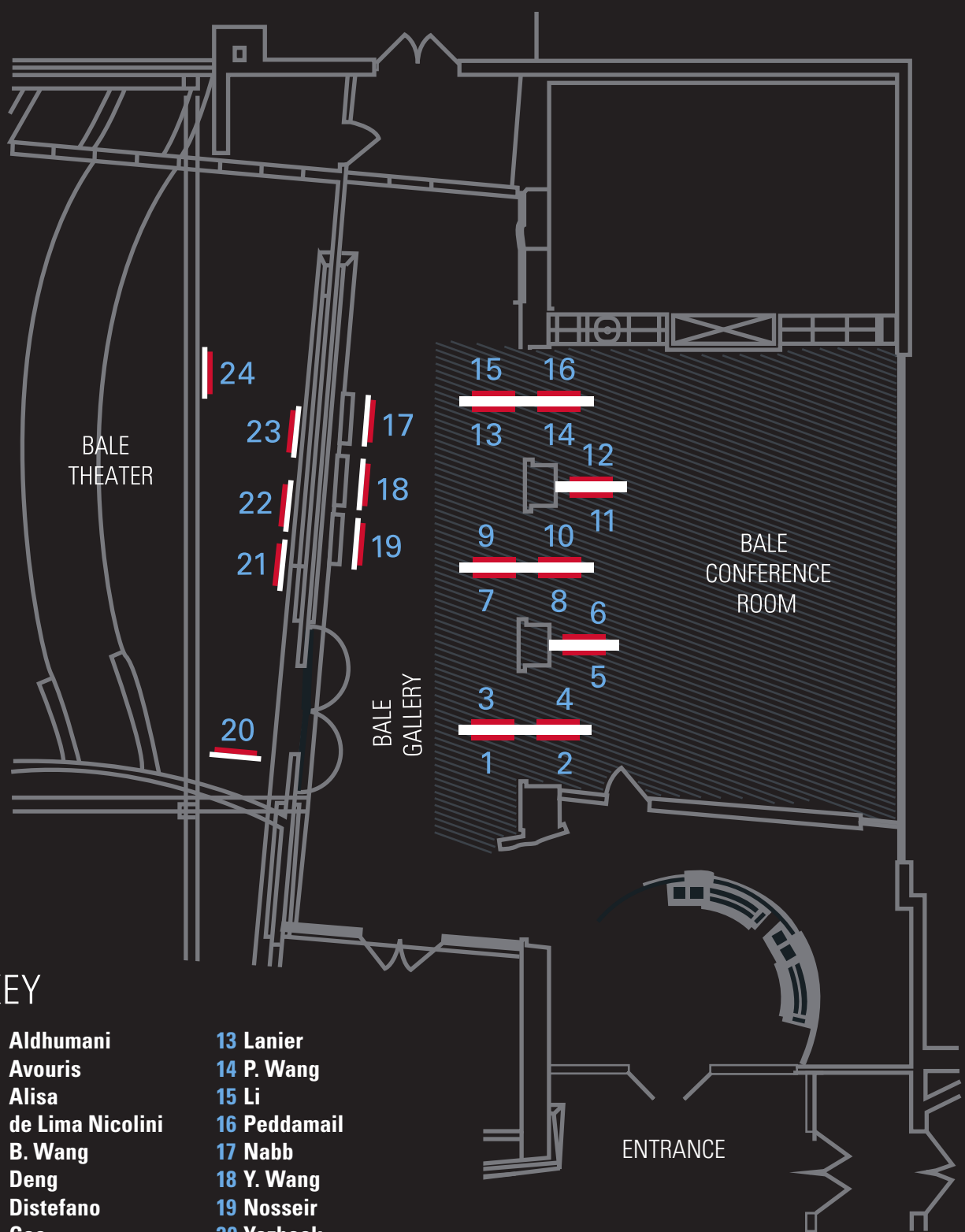
**Americas HPC and
HPDA Sales Director**

Intel Corporation

Russ Fromkin is the Americas HPC and HPDA Sales Director for the Intel Corporation. Russ and his team are responsible for helping technical computing and data analytics customers implement cutting edge technologies developed by Intel Corporation. Russ joined Intel Corporation in 1999 as part of an acquisition of Dialogic Corporation. Previous to his current role, Russ helped lead Information Assurance, HPC and Cloud Computing activities for the Intel Federal team. Prior to the acquisition, Russ developed and managed the ISV program for Dialogic. Russ holds a BA from The Johns Hopkins University.

Posters

- 1. Chemoinformatic Analysis of a Target RNA Element**
Ali Aldhumani | Ohio University
 - 2. NASA Airborne Hyperspectral Image Analysis: the 2016 Lake Erie CyanoHAB**
Dulci Avouris | Kent State University
 - 3. Convolutional Neural Networks and Deep Learning to Detect Mineral Crystal System**
Neeman Alisa | Muskingum University
 - 4. Recent Results on Finite-Element-based Particle-in-Cell Methods for Kinetic Plasma Simulations**
Julio de Lima Nicolini | The Ohio State University
 - 5. Deconvolution of Complex Scattering in Atomic Resolution Spectroscopic Images Using Multi-slice Simulations**
Binbin Wang | The Ohio State University
 - 6. Molecular simulations of polymer membranes: effects of water**
Xuepeng Deng | The Ohio State University
 - 7. Systematic analysis of function and regulation of microRNA isoforms in Cancer**
Rosario Distefano | The Ohio State University
 - 8. Application of Finite Volume Method in simulating erythrocytes separation**
Xuyao Gao | The Ohio State University
 - 9. Two photon absorption of bovine Rhodopsin**
Samira Gholami | Bowling Green State University
 - 10. Using the Ohio Supercomputer cluster to measure developmental changes in connectivity between the amygdala subnuclei and occipit**
Heather Hansen | The Ohio State University
 - 11. Phase Field Modelling of Transformation Pathway in HEA**
Kamalnath Kadirvel | The Ohio State University
 - 12. Studying Infant Hippocampal Connectivity with the OSC**
Athena Howell | The Ohio State University
 - 13. Early Results of Monte-Carlo Simulations for Na₂CO₃**
Joseph Lanier | Xavier University
 - 14. Filter-and-Convolve: A CNN Based Multichannel Complex Concatenation Acoustic Model**
Peidong Wang | The Ohio State University
 - 15. Connectivity patterns between language and visual systems in neonatal and adults brain**
Jin Li | The Ohio State University
 - 16. A comprehensive study of StaQC for Deep Code Summarization**
Jayavardhan Reddy Peddamail | The Ohio State University
 - 17. Predicting reading ability based on anatomical and functional neural connectivity**
Carver Nabb | The Ohio State University
 - 18. Goniopolarity: Axis-Dependent Conduction Polarity in Layered Materials**
Yaxian Wang | The Ohio State University
 - 19. Quantum Mechanical Calculations Towards The Discovery Of Therapeutics For Organophosphorus Poisoning**
Ola Nosseir | The Ohio State University
 - 20. Large Eddy Simulations of Sustainable Greenbelts in Industrial Complexes**
Theresia Yazbeck | The Ohio State University
 - 21. Use of Computational Tools in the Search for the Next Generation of Materials for Regenerative Medicine Applications**
Felipe Fabricio Pacci Evaristo | The Ohio State University
 - 22. Large-scale Computation for Plasma Opacities**
Lianshui Zhao | The Ohio State University
 - 23. Exploring the development of high-level visual connectivity in infants on the Ohio Supercomputer Center cluster**
Micah Rhodes | The Ohio State University
 - 24. Computational Studies of Zeolite Nanosheets as Pervaporation Membranes for Ethanol Extraction**
Changlong Zou | The Ohio State University
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| 2 Avouris | 14 P. Wang |
| 3 Alisa | 15 Li |
| 4 de Lima Nicolini | 16 Peddamail |
| 5 B. Wang | 17 Nabb |
| 6 Deng | 18 Y. Wang |
| 7 Distefano | 19 Nosseir |
| 8 Gao | 20 Yazbeck |
| 9 Gholami | 21 Pacci Evaristo |
| 10 Hansen | 22 Zhao |
| 11 Kadirvel | 23 Rhodes |
| 12 Howell | 24 Zou |