

Tuesday, 2/27		Wednesday, 2/28		Thursday, 3/1	
8-8:10	Welcome	8-8:15	Welcome/overview	8-8:15	Welcome/overview
8:10-8:30	Mike Mayberry, Intel	8:15-9	Plenary TBA	8:15-9	Mike Davies, Intel <i>Loihi</i>
8:30-9:25	Programmatic panel	9-9:25	Christoph von der Malsburg, Platonite	9-9:25	Maxim Bazhenov, UC San Diego
9:25-9:50	Craig Vineyard, Sandia National Laboratories <i>Spiking Neuron Implementations of Several Fundamental Machine Learning Algorithms</i>	9:25-9:50	Garrett Kenyon, Los Alamos National Laboratory <i>How Do Brains Learn about the Physical World</i>	9:25-9:50	Thomas Cleland, Cornell
9:50-10:10	break	9:50-10:10	break	9:50-10:10	break
10:10-10:55	Keynote - Terry Sejnowski, Salk Institute <i>The Deep Learning Revolution</i>	10:10-10:35	Wolfgang Maass, TU Graz	10:10-10:35	Dhiresha Kudithipudi, RIT <i>On-Device Intelligence with Deep Random Projection Networks</i>
10:55-11:20	Kathleen Hamilton, Oak Ridge National Laboratory <i>Sparse Embeddings of Spin-glass Spiking Neuron Networks on Neuromorphic Hardware for Community Identification Task</i>	10:35-11	Weinan Sun, Janelia Farm <i>Experimental Characterization of a Neuromorphic Hardware for Community Identification Task</i>	10:35-11	Sebastian Schmitt, Heidelberg University <i>Experiments on BrainScaleS</i>
11:20-11:45	3x10min. lightning talks	11-11:45	4x10 min lighting talks	11-11:45	4x10 min lighting talks
11:45-1:15	lunch	11:45-1:15	lunch	11:45-1:15	lunch
1:15-1:40	Simon Knowles, Graphcore	1:15-1:40	Campbell Scott, IBM <i>Introducing CAL: Context Aware Learning</i>	1:15-1:40	Chris Eliasmith, University of Waterloo
1:40-2:05	Andrew Sornborger, Los Alamos National Laboratory <i>A Pulse-Gated Mechanism for Synaptic Copy Between Neural Circuits</i>	1:40-2:05	Fritz Sommer, UC Berkeley	1:40-2:05	Sam Green, Sandia National Laboratories <i>Impacts of Quantization and Compression on Reinforcement Learning Policies</i>
2:05-2:30	Hava Siegelmann, DARPA	2:05-2:30	Konstantinos Michmizos, Rutgers University <i>Brain-morphism: Astrocytes as Memory Units</i>	2:05-2:30	Albert Lee, UCLA <i>Diverse Neurons and Inhomogeneous Neural Networks</i>
2:30-3:15	poster/demo break	2:30-3:15	poster/demo break	2:30-3:15	poster/demo break
Mini-theme	New architectures	Mini-theme	Scientific Computing	Mini-theme	Neuromorphic Learning
3:15-3:40	Georgios Detorakis, UC Irvine <i>Embedded Learning on Neuromorphic Systems: Towards a Unified Computational Paradigm</i>	3:15-3:40	Brad Aimone, Sandia National Laboratories <i>Neural Algorithms for Scientific Computing</i>	3:15-3:40	William Severa, Sandia National Laboratories <i>Whetstone: An accessible, platform-independent method for training spiking neural networks</i>
3:40-4:05	Johannes Schemmel, Heidelberg University <i>Towards the Second Generation BrainScaleS System</i>	3:40-4:05	Catherine Schuman, Oak Ridge National Laboratory <i>Training Neuromorphic Systems for Scientific Applications</i>	3:40-4:05	Hesham Mostafa, UC San Diego <i>Deep supervised learning using local errors</i>
4:05-4:30	Sebastian Hoppner, TU Dresden	4:05-4:30	Rick Stevens, Argonne National Laboratory	4:05-4:30	William Hahn, MPCR <i>X³: A biologically inspired, high-speed algorithm for feature learning</i>
4:30-6	open mic/discussion	4:30-6	open mic/discussion	4:30-5:15	open mic/discussion
6:00-8:00	snacks/drinks	6-6:30	break/transportation	5:15-5:30	wrap-up/adjourn
		6:30-8	Dinner (speaker: George Dyson)		
Programmatic Panel					
Karlheinz Meier		EU HBP			
Hava Siegelmann		DARPA			
David Markowitz		IARPA			
Rick Stevens		DOE/Argonne			