

ICMNS 2026 Schedule

	Tuesday (June 2)	Wednesday (June 3)	Thursday (June 4)	Friday (June 5)
8:00 – 8:30 AM	Registration <i>Opening Remarks (8:15 AM)</i>	Registration	Registration	Registration
8:30 – 9:30 AM	Keynote Talk: Hugh Wilson Location: Palmer Howard Amphitheatre Title : Evolution of Mathematical Neuroscience	Plenary Talk: Steve Prescott Location: Palmer Howard Amphitheatre Title : Somatosensory Coding Gone Wrong: The Origins of Neuropathic Pain	Keynote Talk: Dani Bassett Location: Palmer Howard Amphitheatre Title: Control Strategies for Brain Networks	Plenary Talk: Lyle Muller Location: Palmer Howard Amphitheatre Title: Spatiotemporal Computation through Traveling Waves in Biological and Artificial Neural Networks
9:30 – 10:00 AM	Coffee Break	Coffee Break	Coffee Break	Coffee Break
10:00 AM – 12:00 PM	Parallel Sessions Minisymposium 1 (room 330): Basal Ganglia Dynamics and Control in Parkinson's Disease Minisymposium 2 (room 1027): Mathematical Modelling of Large-Scale Brain Dynamics Minisymposium 3 (room 1034): Multiple Timescale Dynamics in Neuronal Systems (Session I)	Parallel Sessions Minisymposium 1 (room 330): The Disordered Brain: Noise, Dynamics and Stability Minisymposium 2 (room 1027): Recent Advances in the Study of Disorder in Recurrent Neural Networks Minisymposium 3 (room 1034): Resilience and Synchronisation of Oscillators	Parallel Sessions Minisymposium 1 (room 330): The Theory and Application of Control of Excitable Systems Minisymposium 2 (room 1027): Non-normality and Trophic Coherence in Brain-Network Architecture Minisymposium 3 (room 1034): Mathematical Approaches to Epilepsy: From Neural Mass Calibration to Network Instability	Parallel Sessions Minisymposium 1 (room 330): Modeling Rhythmic Motor Control Systems Minisymposium 2 (room 325): All You Need is Heterogeneity: Computing and Emergent Dynamics through Neuronal Diversity Minisymposium 3 (room 1027): Shared and Distinct Mechanisms in Neuropsychiatric and Neurodegenerative Diseases
12:00 – 1:30 PM	Lunch Break	Lunch Break	Lunch Break	Lunch Break
1:30 – 2:30 PM	Plenary Talk: Stephen Coombes Location: Palmer Howard Amphitheatre Title : Revisiting the Haken Lighthouse Model: Bridging Spiking and Non-Spiking Neural Networks	Plenary Talk: Carmen Canavier Location: Palmer Howard Amphitheatre Title : Synchronization of Pulse-Coupled Oscillators	Plenary Talk: Boris Gutkin Location: Palmer Howard Amphitheatre Title : Need Is All You Need: A Mathematical Theory of Biologically Rational Behavior Through Homeostatically Regulated Reinforcement Learning	Plenary Talk: Carina Curto Location: Palmer Howard Amphitheatre Title : Network Dominoes: Composable Building Blocks for Recurrent Networks
2:30 – 3:00 PM	Coffee Break	Coffee Break	Coffee Break	
	Parallel Sessions Minisymposium 1 (room 1027): Time Delays in Network Neurodynamics: Phase Reduction, Plasticity, Heterogeneity, and State Dependence Minisymposium 2 (room 1034): Multiple Timescale Dynamics in Neuronal Systems (Part II)	Parallel Sessions Minisymposium 1 (room 1027): Oscillatory Transitions and Stability in Neural Networks Minisymposium 2 (room 1034): Traveling Waves as a Dynamic Substrate for Computation in Neural Networks	Contributed Talks Session 1 (room 1027): Talk 1-Virtual: Mechanistic Modeling of Neural Adaptation in the Human Medial Temporal Lobe Session 2 (room 1034) Talk 1: Generative landscape models for low-dimensional dynamics	

3:00 – 5:00 PM			Talk 2: Classifying seizure generation mechanisms: A critical transitions framework Talk 3: Interaction of timescales in neuronal dendrites drive afterdepolarization potentials and nonmonotonic spike-adding Talk 4: Modeling serotonergic modulation of switching behavior	Talk 2: Predicting and controlling neural entrainment to brain stimulation using mathematical models Talk 3: Hawkes Processes for Modeling Learning in Neural Networks Talk 4: Alzheimer's Disease Personalized Modeling via PINN-Quantile Regression	
5:00 – 5:30 PM	Break	Break	Break		
5:30 – 7:30 PM	Poster Session (6th floor lobby)	Poster Session (6th floor lobby)	Workshops Workshop 1 (Room 1027): Exploring Neuronal Excitability with Real-Time Computation Workshop 2 (room 1034): ElecFeX: A user-friendly toolbox for efficient feature extraction from single-cell electrophysiological recordings Workshop 3 (room 330): Numerical bifurcation analysis of pattern-forming systems in biology		
			7:00 PM Head to the Faculty Club for the dinner banquet (paid banquet participants only) 3450 McTavish Street		
	Reception – 7:30 – 9:00 PM		Dinner Banquet (Faculty Club) 7:15 – 9:00 PM Joint talk: Michael Mackey Title: Early Day Adventures in Mathematical Biology		