



PRINCIPLES OF AUTONOMOUS NEURODYNAMICS

Friday August 13, 2004

Location: Medical Sciences Building, 4th Floor Seminar Room (4227), The University of Toronto

Start	End	Subject	Speaker	Presentation
10:00	10:15	Physiology and Behavior	W. McIntyre Burnham	An Introduction to Voluntary Behavior
10:15	10:30		Bill Mackay	Neuronal Activity and the Control of Limb Movement
10:30	10:45	Complexity and Autonomous Agents	Elan Liss Ohayon	From Cellular Automata to Autonomous Agents: Breaking away from Symmetry, Seizures, and Cybernetics
10:45	11:00	Information Processing	John Rick	Reciprocal interactions between "format" and "flow" – how plasticity might govern information processing
11:00	11:15		Ping Wang	Reliable transmission of sensory inputs into the cortex through unreliable synapses
11:15	11:30	Cognition	Katherine Fong Yin Chan	Hippocampal involvement in a chronic model of atypical absence seizures (AAS)
11:30	11:40	Neuroanatomy	D. Sesath Hewapathirane	Cell Death and Neurogenesis I: Do seizures damage the brain?
11:40	11:50		Brian Scott	Cell Death and Neurogenesis II: Seizure-Induced Enhancement of Hippocampal Neurogenesis
11:50	12:10	Nutrition and Biochemistry	Sergei S. Likhodii and Kirk Nysten	The Ketogenic Diet and Epilepsy: Probing the Mechanisms of Action
12:10	12:25	Pharmacology	W. McIntyre Burnham	Consciousness and Anticonvulsants
12:25	1:00	Lunch		
1:00	1:10	Cellular and Network Electrophysiology	Peter Carlen	The Enigma of Seizure Generation and Spread
1:10	1:25		Miron Derchansky	Bidirectional Seizure Activity as a Manifestation of Coupled Network Oscillators
1:25	1:40		Liang Zhang	Is subiculum a generator of hippocampal ripples?
1:40	1:55		Berj L. Bardakjian	Electrical Oscillations in Hippocampal Networks: Analysis, Modeling and Control
1:55	2:10		Fernanda Saraga	Active dendrites and spike propagation in multi-compartment models of hippocampal interneurons
2:10	2:25	Neuro-Psychoanalysis	Jim Deutsch	Epilepsy and Autonomy: A Developmental Perspective
2:25	2:35	Coffee Break		
2:35	2:50	Personal Narratives	Claudia Megna	Living with Epilepsy: April's Life Sentence
2:50	3:05	Hormones and Reproduction	Sofia Megna	Developing an Animal Model for the Reproductive Dysfunctions of Epilepsy
3:05	3:20	Neurology and Clinical Perspectives	Paul Hwang	Epilepsy: A Disorder of Loss of Control - A Clinician's Perspective
3:20	3:35	Neurogenetics and Pathobiology	Miles D Thompson	The Genetic Epilepsies and Common Comorbidities
3:35	3:50	Gender and Social Sciences	Ann Lam	Women and Epilepsy: An Integrative Approach
3:50	4:05	Dynamical Systems and Modeling	Piotr Suffczynski	Bistable dynamics of epileptic phenomena
4:05	4:15	Coffee Break		
4:15	4:20	International Exchanges		The University of Toronto International Student eXchange Office (ISXO)
4:20	5:00	Keynote Speaker	Stilyan Kalitzin	Autonomous Dynamic Models of Clinical And Experimental Epilepsy
5:00	5:10	Closing Remarks and refreshments		