PREVIOUS E.H. BOTTERELL VISITING PROFESSORS

- PROFESSOR B. MEYERSON — Stockholm, Sweden
- PROFESSOR H.J.M. BARNETT — London, Ontario
- PROFESSOR E. ALEXANDER, JR. — Salem, North Carolina
- PROFESSOR L. MALIS — New York, New York
- PROFESSOR P. KELLY — Rochester, Minnesota
- PROFESSOR R.F. SPETZLER — Phoenix, Arizona
- PROFESSOR M.L.J. APUZZO — Los Angeles, California
- PROFESSOR L. SYMON — London, England
- PROFESSOR B.K. WEIR — Edmonton, Alberta
- PROFESSOR P.J. JANNETTA — Pittsburgh, Pennsylvania
- PROFESSOR S.J. PEERLESS — Miami, Florida
- PROFESSOR B.M. STEIN — New York, New York
- PROFESSOR P.R. COOPER — New York, New York
- PROFESSOR M.L. ROSENBLUM — Detroit, Michigan
- PROFESSOR A. H. CROCKARD — London, England
- PROFESSOR G. YASARGIL — Little Rock, Arkansas
- PROFESSOR P. BLACK — Boston, Massachusetts
- PROFESSOR R. TASKER — Toronto, Ontario
- PROFESSOR L. DADE LUNSFORD — Pittsburgh, Pennsylvania
- PPOFESSOR R.F FAHLBUSCH — Erlangen, Germany
- PROFESSOR G. STEINBERG — Stanford, California
- PROFESSOR A. RHOTON JR. — Gainesville, Florida
- PROFESSOR E. LAWS, JR. — Charlottesville, Virginia
- PROFESSOR Z. GOKASLAN — Baltimore, Maryland
- PROFESSOR D. KONDZIOLKA — Pittsburgh, Pennsylvania
- PROFESSOR M. WESTPHAL — Hamburg, Germany
- PROFESSOR D.L. BARROW — Atlanta, Georgia
- PROFESSOR M. HOWARD III — Iowa City, Iowa
- PROFESSOR J.J. MORCOS — Miami, Florida
- PROFESSOR K.J. BURCHIEL — Portland, Oregon

OBJECTIVE

The objective of this symposium is to provide an opportunity for those individuals in the neurosciences field to learn about current research and treatment in neurosurgical disorders. Surgical and medical treatments will be presented with an opportunity for questions and discussion.

UHN Toronto General Toronto Western Princess Margaret Toronto Rehab
COURAGE LIVES HERE

2014 E. Harry Botterell
Lectureship in Neurosurgery

Professor Hugues Duffau
Doctor Honoris Causa
Herbert Olivecrona Medallist
Professor and Chairman, Department of Neurosurgery
Gui de Chauliac Hospital, Montpellier University Medical Center
Director of the Team "Brain plasticity, Human stem cells and Glial tumors"
National Institute for Health and Medical Research (INSERM)
Institute for Neurosciences of Montpellier
Montpellier, France

November 11, 2014

Division of Neurosurgery
Toronto Western Hospital

Main Auditorium, West Wing 2-401

TUESDAY, NOVEMBER 11, 2014
Toronto Western Hospital, Main Auditorium, West Wing 2-401

SYMPOSIUM: Mapping Normal Brain Function/Activity
Chair: Dr. Taufik A Valiante

0900 ***Professor Hugues Duffau***
New insights into brain connectomics and neuroplasticity

0930 Andres Lozano
Restoring normal brain activity through neuromodulation

0950 Thilo Womselsdorf
Cells and circuits coordinating attention

1010 Chris Honey
Large-scale rhythmic suppression in the human cerebral cortex

1030 Robert Chen
Modulation of basal ganglia oscillations with voluntary movements

1050 Coffee Break

SYMPOSIUM: Mapping Normal Brain Function/Activity
Chair: Dr. Andres Lozano

1105 Kari Hoffman
Saccades during visual exploration align hippocampal 3–8 Hz rhythms in human and non-human primates

1125 Elizabeth Pang
Seeing trouble: Brain patterns linked to the perceptual encoding of emotionally salient stimuli

1145 Taufik Valiante
Phase-amplitude coupling and interlaminar synchrony are correlated in human neocortex

By invitation
1205 Residents' Lunch with Professor Hugues Duffau
West Wing, 4th Floor Balcony

1300 Clinical Research Presentations by University of Toronto Neurosurgery Residents for the 2014 William J. Horsey Prize Competition
Chair: Dr. Andres Lozano

1345 Coffee Break

SYMPOSIUM: Mapping Abnormal Brain Function/Activity
Chair: Dr. Taufik Valiante

1400 Richard Wennberg
Reliability of MEG source imaging of anterior temporal spikes: Analysis of an intracranially characterized spike focus

1420 Mary Pat McAndrews
Linking DMN connectivity to episodic memory capacity: What can we learn from patients with medial temporal lobe damage?

1440 Jose Luis Perez Velazquez
A present and future perspective on feedback brain electrical stimulation aborting pathological synchrony

1500 Jonathan Downar
rTMS for depression: How neuroimaging is turning a miss into a hit

1520 Karen Davis
Linking individual pain sensitivities to brain structure and function: Heading towards brain-based personalized pain management

1540 Coffee Break

1600 Jim Rutka
The utility of high frequency oscillations in demarcating the primary epileptogenic zone

1620 George Ibrahim
Oscillations, neural networks and the surgeon: Functional connectivity-guided strategies for the treatment of childhood epilepsy

1640 Kenda AlHadid
CVR in localizing the epileptogenic focus

1700 ***Professor Hugues Duffau***
Awake surgery to resect diffuse low-grade gliomas to the boundaries of brain functions