

**XX Canadian Congress of Neurological Sciences**

Montréal, Québec  
June 25 - 28, 1985

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Annual Meeting of the Canadian Association for Child Neurology  
June 25, 1985

Morning Session

|   |                  |
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| Congenital muscular dystrophy   | Yukio Fukuyama   |
| Experimental treatment of muscular dystrophy  | Michel Vanasse   |
| Spectroscopic NMR in muscle disease   | Douglas Arnold   |
| Molecular biology of neuro-muscular disease   | Kenneth Hastings |
| Designated discussant   |                  |
| A progressive familial encephalopathy in infancy with calcifications of the basal ganglia and CSF lymphocytosis | Jean Aicardi     |
| Familial leukoencephalopathy in Nouveau Québec; genetic or infectious   | Deborah Black    |

Afternoon Session

|   |                    |
|---|--------------------|
| The usefulness of evoked potentials in child neurology                                | Bernard Rosenblatt |
| Cognitive function in children with epilepsy  | Michael Trimble    |
| Anticonvulsant effects on intellectual functioning in children with seizure disorders | Marilen Gerber     |
| Callosotomy and cognitive function  | Guy Geoffroy       |
| Developmental studies in children of epileptic women                                  | Eva Andermann      |

**Special Courses**  
June 26, 1985

**Course 1 — Pain: Neural processes in Nociception**Morning Session — Moderator: *P.D. Wall*

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| Current concepts of pain  | Ronald Melzack |
| Human nociceptors studied with single fiber neurography         | Robert LaMotte |
| Prolonged changes in the periphery produced by nerve damage     | Patrick Wall   |
| Pharmacology of spinal systems which modulate pain transmission | Anthony Yaksh  |

Afternoon Session — Moderator: *Ronald Melzack*

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| Correlations between subjective appreciation and neurophysiological responses to pain    | Ronald Dubner  |
| Multiple endorphins in the descending control of pain                                    | Allan Basbaum  |
| The psychological state of pain patients   | Harold Merksey |
| Prolonged changes in spinal cord triggered by nerve impulses following peripheral injury | Patrick Wall   |

**Course 2 — Behavioural Neurology**

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|---|-------------------|
| The neuroanatomical basis of functional lateralization and localization | Alberto Galaburda |
| Aspects of functional lateralization and localization                   | Brenda Milner     |
| Disorders of memory   | Morris Moscovitch |
| Disorders of language   | David Caplan      |
| Disorders of visuo-spatial functions                                    | Marc Jeanerod     |
| Alzheimer's Disease   | Myrna Schwartz    |

**Course 3 — Epilepsy: New Horizons**

**Scientific Basis of the Epilepsies** — Moderator: *Pierre Gloor*

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| Basic mechanisms of generalized and focal epilepsy: a review             | Pierre Gloor         |
| The role of neurotransmitters in epilepsy: prospect for rational therapy | Richard S. McLachlan |

**Epilepsy in Childhood** — Moderator: *Gordon Watters*

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| Controversy or consensus in the treatment of febrile convulsions       | Peter Camfield |
| Treatment of West's syndrome: changing prognosis?                      | Yukio Fukuyama |
| The myoclonic epilepsies of childhood: current concepts and approaches | Jean Aicardi   |
| Panel discussion of childhood epilepsy                                 |                |

**Update on Management Strategies** — Moderator: *J. Preston Robb*

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| Rational utilization of antiepileptic drugs           | Allan Sherwin        |
| New antiepileptic drugs on the horizon                | Joseph Bruni         |
| Epilepsy, pregnancy and motherhood                    | Eva Andermann        |
| Canadian epileptic lay societies and self help groups | Jean-Marc St-Hilaire |

**Psychiatric Treatment in Epilepsy** — Moderator: *Maurice D'ongier*

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| On some links between epilepsy and psychiatry | Michael Trimble |
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**Surgical Treatment of Epilepsy: Who, When and How?** — Moderator: *Theodore Rasmussen*

Frederick Andermann  
Warren Blume  
Guy Bouvier  
John Girvin  
André Olivier  
Lois F. Quesney

**Mini-Symposia**  
June 28, 1985

**Symposium on CNS Regeneration** — Moderator: *Dr. Albert Aguayo*

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| Development and integration of embryonic neural transplants within the adult mammalian CNS | Lawrence Kromer   |
| Axonal regrowth from injured neurons in the adult mammalian CNS                            | Albert Aguayo     |
| Role of the nerve cell body in axonal regeneration   | Bernice Grafstein |
| Neurophysiological studies of regenerated CNS axons  | Michael Rasminsky |

**Neurotransmitters and Neurological Diseases** — Moderator: *Dr. L.P. Renaud*

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| Molecules mediating interneuronal communication: Which, where and how?         | Leo Renaud     |
| Forebrain cholinergic neurons, the cerebral cortex and Alzheimer's disease     | Claudio Cuello |
| Experimental approaches to the pathophysiology of transmitter related diseases | Paul Bédard    |
| What can be done to correct transmitter-related deficits?                      | Serge Gauthier |

**History of Neurological Sciences** — Moderator: *Dr. J. Murray*

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| Development of Neurosurgery in Canada  | Thomas Morley      |
| History of Montreal Neurological Institute                                   | William Feindel    |
| Olser and Neurology  | George Ebers       |
| Heart and brain: historical perspective                                      | Vladimir Hachinsky |
| Canadians at Queen's Square  | Jock Murray        |
| Reflexes of Brain and 19th century: quest for neurological basis of behavior | S. Black           |
| S.W. Mitchell, the first American Neurologist                                | Richard Tyler      |

**Computers in Neurological Practice** — Moderator: *Dr. A. Hakim*

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| What is available in computers for practice and research? | Donald Studney    |
| How to choose your system (Private Computer Consultant)   | Malcolm MacIntosh |
| How to make your system work successfully                 |                   |

**Special Lectures**

**Royal College Lecture**

Professor François L'hermitte  
*Hôpital de la Salpêtrière, Paris, France*  
«Cerveau et pensée»

**Canadian Neurological Society Guest Lecture**

Professor Patrick Wall  
*University College, London, England*

“Prolonged changes in spinal cord produced by transport mechanisms from a region of peripheral injury”

**Canadian Congress of Neurological Sciences Guest Lecture**

Dr. Richard Masland  
*Neurological Institute, New York, U.S.A.*  
*President of the World Federation of Neurology*

“The role of the World Federation of Neurology in the development of neurology and neurosurgery in third world countries”

**McNaughton Prize Lecture**

Dr. Alan Jackson  
“Transient global amnesia associated with mitral valve prolapse”