

TERENCE WILLIAM PICTON

Curriculum Vitae, October, 2024

SUMMARY

Terence Picton graduated in Medicine from the University of Toronto in 1967. He received his M.Sc. in Physiology from the University of Toronto in 1969, and obtained his Ph.D. in Neurosciences from the University of California at San Diego in 1973. From 1974 to 1994, he worked in the Department of Medicine at the University of Ottawa, serving as its acting chairman from 1990-91. In July 1994, he became a Research Scientist at the Rotman Research Institute Baycrest and a Professor of Medicine and Psychology at the University of Toronto. From 1997 to 2008, he was the Anne and Max Tanenbaum Professor of Cognitive Neuroscience. He was elected a fellow of the Royal Society of Canada in 2006, and retired from his formal academic appointments in 2008.

His research investigated perception and cognition using the "event-related potentials," small electrical changes that are generated in the brain in response to sensory stimuli or in association with behavioural responses and recorded from the scalp using a computer. This work is published in 2 books, 63 chapters and 180 journal articles. His research interests included determining how the human brain attend to sounds, evaluating the mental deterioration that occurs with aging and with dementia, investigating the intracerebral sources for scalp-recorded electrical activity, and evolving new electrophysiological tests of hearing.

Since his retirement he has published 3 books, one on his research with the auditory evoked potentials, one on the relations between science and religion, and a collection of poems. From 2016 to 2021, he taught at the LIFE ("learning is for ever") Institute at Ryerson University, and at the "Living and Learning in Retirement Program" at Glendon College.

ADDRESSES

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PERSONAL INFORMATION

Born in England on January 8, 1945
Canadian resident since 1956 and citizen since 1967
Married May 31, 1969 (Nina Ann Mayerovitch, dob Mar 6, 1943)
Two children (Michael Llewelyn, born Jan 20, 1971; Peter Evan, born Nov 6, 1973)
Two grandchildren (Rhys Albert, born June 29, 2017; Alexander Michael, born Sept 27, 2019)

EDUCATION

1967	M.D.	University of Toronto
1969	M.Sc. (Physiology)	University of Toronto
		<i>Thesis "Cortical Evoked Potentials to VIIIth Nerve Stimulation"</i> <i>Supervisor: Walter H. Johnson</i>
1973	Ph.D. (Neurosciences)	University of California at San Diego
		<i>Thesis "Evoked Potential Correlates of Human Auditory Attention"</i> <i>Supervisor: Robert Galambos</i>

APPOINTMENTS

1967-69 Research Fellow, Department of Otolaryngology, University of Toronto
1969-70 Intern, Vancouver General Hospital, Vancouver
1970 Research Fellow in Neurology, University of British Columbia
1970-73 Medical Research Council Fellow, University of California San Diego
1973-74 Resident in Neurology, University of California at San Diego
1974-94 Active Staff, Ottawa General Hospital
1974-79 Assistant Professor (Medicine & Psychology), University of Ottawa
1978-94 Consulting Staff, Children's Hospital of Eastern Ontario
1979-84 Associate Professor (Medicine, Physiology & Psychology), University of Ottawa
1984-94 Professor (Medicine, Physiology & Psychology), University of Ottawa
1990-91 Acting Chairman, Department of Medicine, University of Ottawa
1994-08 Scientist, Rotman Research Institute, Baycrest Centre for Geriatric Care
1994-08 Professor of Medicine and Psychology, University of Toronto
1997-08 Anne and Max Tanenbaum Professor of Cognitive Neuroscience at Baycrest Centre
2009- Professor Emeritus, University of Toronto
2016-19 Lecturer, LIFE Institute, Ryerson University
2019-21 Lecturer, Living and Learning in Retirement, Glendon College

HONOURS

Ontario Mental Health Foundation Scholarship (1975-76)
Medical Research Council Scholarship (1976-81)
Fellowship (Medical Scientist) Royal College of Physicians and Surgeons (1984-1995)
Fellowship, American EEG Society (1982-95)
Ontario-Quebec Neuroscience Exchange Speaker (1985)
Killam Research Fellowship (1985-86)
George Dawson Lecturer, American Society for Clinical Evoked Potentials (1987)
Researcher of the Year, Ottawa General Hospital (1989)
Award of Excellence, Faculty of Medicine, University of Ottawa (1991)
Fellowship, Royal Society of Canada (2006-present)
Hallowell Davis Lecturer, International Evoked Response Audiometry Study Group (2015)
University of Toronto Sports Hall of Fame (member of Championship Rugby Team, 1959-63) (2016)
Richard Seewald Career Award, Canadian Academy of Audiology (2017).

EDITORIAL BOARDS

Audiology (Editorial Board, 1996-2000)
Biological Psychology (Associate Editor, 1984-87)
Brain Topography (Editorial Board, 1988-99)
British Journal of Audiology (Consulting Editor, 1987-89)
Canadian Journal of Neurological Sciences (Editorial Board, 1981-88; Associate Editor, 1988-94)
Electroencephalography & Clinical Neurophysiology (Consulting Editor, 1980-2000)
Human Brain Mapping (Associate Editor, 1993-99)
Journal of Cognitive Neuroscience (Associate Editor, 1989-2009)
Journal of Electrophysiological Technology (Editorial Board, 1984-89)
Psychophysiology (Associate Editor, 1995-2001)

CITATIONS

Data checked in Google Scholar (December 31, 2023)

H-index:	107	H-index since 2018	46
Total Citations:	49190	i10 index	217

Most cited publications (citations are as listed in Google Scholar and in Web of Science Core Collection):

1. Näätänen, R., and Picton, T. The N1 wave of the human electric and magnetic response to sound: a review and an analysis of the component structure. *Psychophysiology*, 24: 375-425, 1987. (3908, 3167).
2. Picton, T. W., Bentin, S., Berg, P., Donchin, E., Hillyard, S. A., Johnson, R. Jr., Miller, G.A, Ritter, W., Ruchkin, D. S., Rugg, M.D. and Taylor, M. J. Guidelines for using human event-related potentials to study cognition: Recording standards and publication criteria. *Psychophysiology*, 37, 127-152, 2000. (2579, 1555)
3. Hillyard, S.A., Hink, R.F., Schwent, V.L. and Picton, T.W. Electrical signs of selective attention in the human brain. *Science*, 182: 177-180, 1973. (2283, 1457)
4. Picton, T.W. The P300 wave of the human event-related potential. *J. Clin. Neurophysiol.* 9:456-479, 1992. (2420, 1418)
5. Picton, T.W., Hillyard, S.A., Krausz, H.I. and Galambos, R. Human auditory evoked potentials. I Evaluation of components. *Electroenceph. Clin. Neurophysiol.*, 36: 179-190, 1974 (1986, 1140).
6. Starr, A., Picton T.W., Sininger, Y.S., Hood, L.J., and Berlin, C.I. Auditory neuropathy. *Brain*, 119, 741-753, 1996. (1710, 792)
7. Picton, T.W., and Hillyard, S.A. Human auditory evoked potentials. II Effects of attention. *Electroenceph. Clin. Neurophysiol.*, 36: 191-200, 1974. (1159, 655)
8. Picton, T. W., John M.S., Dimitrijevic, A., and Purcell, D.W. Human auditory steady-state responses. *International Journal of Audiology*, 42:177-219, 2003. (1032, 597)
9. Scherg, M., Vajsar, J., and Picton, T.W. A source analysis of the late human auditory evoked potentials. *J. Cognitive Neurosci.* 1: 336-355, 1989. (869, -)
10. Stuss, D.T., Shallice, T., Alexander, M.P., and Picton, T.W. A multidisciplinary approach to anterior attentional functions. In Grafman, J., Holyoak, K.J., & Boller., F. (Eds). *Structure and Function of the Human Prefrontal Cortex. Annals of the New York Academy of Sciences*, 769:191-211, 1995. (826, 388)
11. Picton, T.W., Alain, C., Otten, L., Ritter, W., and Achim, A. Mismatch negativity: Different water in the same river. *Audiology and Neuro-Otology*, 5:111-139, 2000. (707, 446)
12. Hillyard, S.A., and Picton, T.W. Electrophysiology of cognition. In Plum, F. (Ed.), *Handbook of Physiology. Section 1 The Nervous System Volume V. Higher Functions of the Nervous System*, American Physiological Society, Bethesda, 1987, pp. 519-584. (672, -)

Most cited publications in last 10 years of active publication (2004-2013)

1. Picton, T.W., Stuss, D.T. Alexander, M.P., Shallice, T., Binns, M.A. and Gillingham, S. Effects of focal frontal lesions on response inhibition. *Cerebral Cortex*, 17:826-838, 2007. (504, 273).
2. Stuss, D.T., Alexander, M.P., Shallice, T., Picton, T.W., MacDonald, R., Borowiec, A., Binns, M., and Katz, D. Multiple frontal systems controlling response speed. *Neuropsychologia*, 43: 396-417, 2005. (428, 251).
3. Picton T. W. *Human Auditory Evoked Potentials*. Plural Press: San Diego, 2011, pp 634. (425, -)

Notes: Google Scholar differs from Web of Science index by including books and chapters, and having a more complete journal database. The h-index based on Web of Science (Core Collection) is 71.

PUBLICATIONS (1 student)**A) Books**

1. Picton, T. W. (Ed.) *Handbook of Electroencephalography and Clinical Neurophysiology. (Revised series) Volume 3. Human Event-Related Potentials.* Elsevier, Amsterdam, 1988, pp. 541. (Includes chapters: Picton, T.W. "Introduction", pp. 1-5, and Picton, T.W. and Hillyard, S.A. "Endogenous evoked potentials", pp. 361-426.)
2. Picton T. W. *Human Auditory Evoked Potentials.* Plural Press: San Diego, 2011, pp 634.
3. Picton, T. W. *Creature and Creator: Intersections between Science and Religion.* Picton: Toronto, 2013, pp 499.
4. Picton, T. *Windfall Light.* Picton: Toronto, 2022, pp 81.

B) Chapters in Books

1. Picton, T. W., Hillyard, S. A. and Galambos, R. Evoked responses to omitted stimuli. In *Basic Problems of Brain Electrophysiology*, Livanov, M.N. (Ed.), NAUKA, Moscow, 1974, pp. 302-311 (in Russian).
2. Hillyard, S. A., Courchesne, E., Krausz, H. I. and Picton, T. W. Scalp topography of the "P3" wave in different auditory decision tasks. In *The Responsive Brain.* McCallum, W.C. and Knott, J.R. (Eds.), John Wright and Sons, Bristol, pp. 81-87, 1976.
3. Picton, T. W., Hillyard, S. A. and Galambos, R. Habituation and attention in the auditory system. In *Handbook of Sensory Physiology Vol. V/3 Auditory System. Clinical and Special Topics.* Keidel, W.D., and Neff, W.D. (Eds.), Springer Verlag, Berlin, pp. 343-389, 1976.
4. Picton, T.W., Campbell, K.B.¹, Baribeau-Braun, J.¹, and Proulx, G.B.¹ The neurophysiology of human attention: A tutorial review. In *Attention and Performance VII.* J. Requin (Ed.), Lawrence Erlbaum, Hillsdale, New Jersey, pp. 429-467, 1978.
5. Hillyard, S.A., Picton, T.W. and Regan, D. Sensation, perception, attention: analysis using ERPs. In *Event-related Brain Potentials in Man.* Callaway, E., Tueting, P., and Koslow, S.H. (Eds.), Academic Press, New York, pp. 223-321, 1978.
6. Picton, T.W. The strategy of evoked potential audiometry. In *Early Diagnosis of Hearing Loss.* S.E. Gerber and G.T. Mencher (Eds.), Grune and Stratton, New York, pp. 297-307, 1978.
7. Picton, T.W., Woods, D.L., Stuss, D.T.¹, and Campbell, K.B.¹ Methodology and meaning of human evoked potential scalp-distribution studies. In *Multidisciplinary Perspectives in Event-related Brain Potential Research.* Otto, D.A. (Ed.), US Environmental Protection Agency EPS 600/9-77-043, Washington, 1978, pp.515-522.
8. Hillyard, S.A. and Picton, T.W. Event-related brain potentials and selective information processing in man. In *Progress in Clinical Neurophysiology. Volume 6. Cognitive Components in Cerebral Event-related Potentials and Selective Attention* Desmedt, J.E. (Ed.), Karger, Basel, pp. 1-52, 1979.
9. Picton, T.W. The use of human event-related potentials in psychology. In *Techniques in Psychophysiology*, Venables, P.H. and Martin, I. (Eds.), Wiley, New York, pp. 357-395, 1980.
10. Picton, T.W. and Stuss, D.T. The component structure of the human event-related potentials. In Kornhuber, H.H. and Deecke, L. (Eds.), *Progress in Brain Research Vol. 54. Motivation, Motor and Sensory Processes of the Brain: Electric Potentials, Behaviour and Clinical Use.* Elsevier, Amsterdam, 1980, pp. 17-49.
11. Proulx, G.B.¹, and Picton, T.W. The CNV during cognitive learning and extinction. In Kornhuber, H.H. and Deecke, L. (Eds.), *Progress in Brain Research Vol. 54. Motivation, Motor and Sensory Processes of the Brain: Electrical Potentials, Behaviour and Clinical Use.* Elsevier, Amsterdam, 1980, pp. 309-313.

12. Perrault, N.¹, and Picton, T.W. Event-related potentials during a problem solving task. In Kornhuber, H.H. and Deecke, L. (Eds.), *Progress in Brain Research Vol. 54. Motivation, Motor and Sensory Processes of the Brain: Electrical Potentials, Behaviour and Clinical Use*. Elsevier, Amsterdam, 1980, pp. 314-321.
13. Stuss, D.R., Toga, A., Hutchison, J., and Picton, T.W. Feedback evoked potentials during an auditory concept formation task. In Kornhuber, H.H. and Deecke, L. (Eds.), *Progress in Brain Research Vol. 54. Motivation, Motor and Sensory Processes of the Brain: Electrical Behaviour and Clinical Use*. Elsevier, Amsterdam, 1980, pp. 403-409.
14. Picton, T.W., Suranyi, L.¹, Guberman, A., and Broughton, R.J. The neurophysiological investigation of stuporous and comatose patients. In Ivan, L.P. and Bruce, D. (Eds.) *Coma: Physiopathology, Diagnosis and Management*. Charles Thomas, Springfield, Illinois, 1982, pp. 31-70.
15. Picton, T.W., and Fitzgerald, P.G.¹ A general description of the human auditory evoked potentials. In Moore, E.J. (Ed.), *Bases of Auditory Brain-Stem Evoked Responses*, Grune and Stratton, New York, 1983, pp. 141-156.
16. Picton, T., Donchin, E., Ford, J., Kahneman, D., and Norman, D. The ERP and decision and memory processes. In Donchin, E. (Ed.), *Cognitive Psychophysiology*, Lawrence Erlbaum, Hillsdale, New Jersey, 1984, pp. 139-177.
17. Stapells, D.R.¹, Picton, T.W., and Smith, A.D. The calibration of click intensity. In Starr, A., Rosenberg, C., Don, M., and Davis, H. *Sensory Evoked Potentials 1. An International Conference on Standards for Auditory Brainstem Response (ABR) Testing*. Amplifon, Milan, 1984, pp. 35-38.
18. Picton, T.W., and Maru, J.T. Comments on obtaining signals from noise. In Starr, A., Rosenberg, C., Don, M., and Davis, H. *Sensory Evoked Potentials 1. An International Conference on Standards for Auditory Brainstem Response (ABR) Testing*. Amplifon, Milan, 1984 pp. 147-151.
19. Picton, T.W., and Stuss, D.T. Event-related potentials in the study of speech and language: a critical review. In D. Caplan, A.R. Lecours, and A. Smith (Eds.) *Biological Perspectives on Language*, MIT Press, Cambridge, Massachusetts, 1984, pp. 303-360.
20. Picton, T.W., Stapells, D.R.¹, Perrault, N.¹, Baribeau-Braun, J.¹, and Stuss, D.T. Human event-related potentials: Current perspectives. In R.H. Nodar and C. Barber (Eds.) *Evoked Potentials II*, Butterworths, New York, 1984, pp. 3-16.
21. Stapells, D.¹, Picton, T., Perez-Abalo, M.¹, Read, D.¹, and Smith, A. Frequency specificity in evoked potential audiometry. In J.T. Jacobson (Ed.), *The Auditory Brainstem Response*. College-Hill Press, San Diego, 1985, pp. 147-177.
22. Picton, T.W., and Stapells, D.R.¹ A 'Frank's Run' latency intensity function. In Jacobson, J.T. (Ed.) *The Auditory Brainstem Response*, College-Hill Press, San Diego 1985, pp. 410-413.
23. Linden, R.D.¹, Picton, T.W., Campbell, K.B., and Hamel, G. Thresholds for auditory steady state evoked potentials during sleep. In W.P. Koella, E. Ruther and H. Schulz (Eds.) *Sleep '84*, Gustav Fischer, Stuttgart, 1985, pp. 228-231.
24. Picton, T.W., Stuss, D.T., and Marshall, K.C. Attention and the brain. In S.L. Friedman, K.A. Klivington, and R.W. Patterson (Eds.) *The Brain, Cognition and Education*. Academic Press, New York, 1986, pp. 19-79.
25. Picton, T.W. Abnormal brainstem auditory evoked potentials: a tentative classification. In R.Q. Cracco and I. Bodis-Wollner (Eds.) *Evoked Potentials*, Alan R. Liss, Inc., New York, 1986, pp. 373-378.
26. Picton, T.W., Taylor, M.J., Durieux-Smith, A., and Edwards, C.G. Brainstem auditory evoked potentials in pediatrics. In Aminoff, M.J., (Ed.) *Electrodiagnosis in Clinical Neurology*, Churchill Livingstone, New York, 2nd. Edition, 1986, pp. 505-534.

27. Delisle, M.¹, Stuss, D.T., and Picton, T.W. Event-related potentials to feedback in a concept formation task. In McCallum, W.C., Zappoli, R. and Denoth, F. (Eds.) *Cerebral Psychophysiology: Studies in Event-Related Potentials of the Brain. Electroenceph. Clin. Neurophysiol. Suppl.*, 38:105-107, 1986.
28. Picton, T.W., Cerri, A.M.¹, Champagne, S.C., Stuss, D.T., and Nelson, R.F. The effects of age and task difficulty on the late positive component of the auditory evoked potentials. In McCallum, W.C., Zappoli, R. and Denoth, F. (Eds.) *Cerebral Psychophysiology: Studies in Event-Related Potentials of the Brain. Electroenceph. Clin. Neurophysiol. Suppl.*, 38:132-133, 1986.
29. Näätänen, R., and Picton, T.W. N2 and automatic versus controlled processes. Includes a subsection: Picton, T.W., Stuss, D.T., Fitzgerald, P.G.¹, and Perrault, N.¹ Overlapping cerebral processes during the N2 peak of the event-related potential (pp. 180-185). In McCallum, W.C., Zappoli, R. and Denoth, F. (Eds.) *Cerebral Psychophysiology: Studies in Event-Related Potentials of the Brain. Electroenceph. Clin. Neurophysiol. Suppl.*, 38:171-188, 1986.
30. Picton, T.W. The recording and measurement of evoked potentials. In Halliday, A.M., Butler, S.R., and Paul, R. (Eds.), *Textbook of Clinical Neurophysiology*. John Wiley, Chichester, England, 1987, pp. 23-40.
31. Picton, T.W. Evoked potentials, auditory, human. In G. Adelman (Ed.) *Encyclopedia of Neuroscience*, Birkhäuser Boston, Cambridge, Massachusetts, 1987, pp. 413-414.
32. Hillyard, S.A., and Picton, T.W. Electrophysiology of cognition. In Plum, F. (Ed.), *Handbook of Physiology. Section I The Nervous System Volume V. Higher Functions of the Nervous System*, American Physiological Society, Bethesda, 1987, pp. 519-584.
33. Picton, T.W. Human auditory steady state responses. In C. Barber and T. Blum (Eds.), *Evoked Potentials III*, Butterworth, Boston, 1987, pp. 117-124.
34. Maiste, A.C.¹, and Picton, T.W. Auditory evoked potentials during selective attention. In C. Barber and T. Blum (Eds.), *Evoked Potentials III*, Butterworth, Boston, 1987, pp. 385-391.
35. Picton, T.W. The endogenous evoked potentials. In Basar, E. (Ed.), *Dynamics of Sensory and Cognitive Processing by the Brain*, Springer Verlag, Berlin, 1988, pp. 258-265.
36. Picton, T.W. Auditory evoked potentials. In D.D. Daly, and T.A. Pedley (Eds.) *Current Practice of Clinical Electroencephalography*, Second Edition, Raven Press, New York, 1990, pp 625-678
37. Scherg, M., and Picton, T.W. Brain electric source analysis of the mismatch negativity. In C.H.M. Brunia, A.W.K. Gaillard, A. Kok (Eds.) *Psychophysiological Brain Research, Volume I*, Tilburg University Press, Netherlands, 1990 pp. 94-98.
38. Scherg, M., and Picton, T.W. Separation and identification of event-related potential components by brain electric source analysis. In C.H.M. Brunia, G. Mulder and M.N. Verbaten (Eds.) *Event-Related Brain Research. Electroenceph. Clin. Neurophysiol. Suppl.*42. Elsevier, Amsterdam 1991, pp 24-37.
39. Picton, T.W., and Scherg, M. Auditory evoked potentials: recent research (1986-1990). In C. Barber and M. J. Taylor (Eds.) *Evoked Potentials Review No 4* IEPS Publications, Nottingham, England 1991, pp 15-28.
40. Picton, T.W., Taylor, M.J., Durieux-Smith, A. Brainstem auditory evoked potentials in pediatrics. In Aminoff, M.J., (Ed.) *Electrodiagnosis in Clinical Neurology*, Churchill Livingstone, New York, 3rd. Edition, 1992, pp. 537-569
41. Stapells, D., Picton, T., and Durieux-Smith, A. Electrophysiologic measures of frequency-specific auditory function. In J.T. Jacobson (Ed.), *Principles and Applications of Auditory Evoked Potentials*. Allyn and Bacon, New York, 1994, pp 251-283.
42. Picton, T.W., Lins, O., and Scherg, M. The recording and analysis of event-related potentials. In Boller, F., and Grafman, J. (Eds) R. Johnson Jr. (Section Ed.) *Handbook of Neuropsychology. Volume 10. Section 14 Event-Related Brain Potentials and Cognition*, Elsevier, Amsterdam, 1995, pp 3-73.

43. Stuss, D.T., Shallice, T., Alexander, M.P., and Picton, T.W. A multidisciplinary approach to anterior attentional functions. In Grafman, J., Holyoak, K.J., and Boller., F. (Eds). *Structure and Function of the Human Prefrontal Cortex. Annals of the New York Academy of Sciences*, 769:191-211, 1995.
44. Gutschalk, A., Scherg, M., Picton, T.W., Mase, R., Roth, R., Ille, N., Klenk, A., and Hähnel, S., Multiple source components of middle and late latency auditory evoked fields. In Hashimoto, I., and Kakigi, R. (Eds.) *Recent Advances in Human Neurophysiology*. Elsevier, Amsterdam, 1998, pp 270-278.
45. Picton, T.W., Taylor, M.J., Durieux-Smith, A. Brainstem auditory evoked potentials in pediatrics. In Aminoff, M.J., (Ed.) *Electrodiagnosis in Clinical Neurology*, Churchill Livingstone, New York, 4th. Edition, 1999, pp. 485-511
46. Picton, T.W. Evoked potentials, auditory, human. In G. Adelman and B.H. Smith (Eds.) *Elsevier's Encyclopedia of Neuroscience*, 2nd Edition, Elsevier, Amsterdam, 1999, pp. 682-685.
47. Picton, T.W. & Stuss, D. T. Consciousness. In Bittar, E.E., and Bittar, N. (Eds.) *Biological Psychiatry (Principles of Medical Biology, Volume 14)*. Stamford, Connecticut: JAI Press, 2000, pp. 1-25.
48. Stuss, D.T., Picton, T.W., and Alexander, M.P. Consciousness, self-awareness and the frontal lobes. In Salloway, S., Malloy, P., and Duffy, J. (Eds.) *The Frontal Lobes and Neuropsychiatric Illness*. American Psychiatric Press. 2001, pp. 101-109.
49. Starr, A., Picton, T.W., and Kim, R. Pathophysiology of auditory neuropathy. In Sininger, Y., and Starr A. (Eds.) *Auditory Neuropathy: A New Perspective on Hearing Disorders*. Singular Publishing, San Diego. 2001, pp 67-82.
50. Picton, T.W., Alain, C., & McIntosh, A.R. The theatre of the mind: physiological studies of the human frontal lobes. In Stuss, D.T., & Knight, R.T. (Eds.) *Principles of Frontal Lobe Function*. Oxford, New York, 2002, pp 109-126.
51. Picton, T.W., Dimitrijevic, A., Van Roon, P., John, M.S., Reed, M., and Finkelstein, H. Possible roles for the auditory steady-state responses in fitting hearing aids. In R. C. Seewald and J. S. Gravel (eds.) *A sound foundation through early amplification 2001. Proceedings of the 2nd International Conference* Basel: Phonak AG, 2002, pp 63-73.
52. Picton, T.W. Auditory event-related potentials. In Nadel, L. (Ed.) *Encyclopedia of Cognitive Science*. London: Nature Publishing Group, 2002, Volume 1, pp 268 - 273.
53. Picton, T.W. & Mazaheri, A. Electroencephalography (EEG). In Nadel, L. (Ed.) *Encyclopedia of Cognitive Science*. London: Nature Publishing Group, 2002, Volume 1, pp. 1083 – 1087.
54. Picton, T.W. Evoked potentials, auditory, human. In G. Adelman and B.H. Smith (Eds.) *Elsevier's Encyclopedia of Neuroscience*, 3rd Edition (CD-ROM), Elsevier, Amsterdam, 2004.
55. Picton, T.W., Taylor, M.J., Durieux-Smith, A. Brainstem auditory evoked potentials in pediatrics. In Aminoff, M.J., (Ed.) *Electrodiagnosis in Clinical Neurology*, Elsevier Churchill Livingstone, Philadelphia, 5th. Edition, 2005, pp. 525-552.
56. Picton, T.W. Audiometry using auditory steady-state responses. In Burkard, R.F., Don, M., and Eggermont, J.J. (Eds) *Auditory Evoked Potentials: Basic Principles and Clinical Applications*. Lippincott, Williams and Wilkins, Baltimore, 2007, pp 441-462.
57. Tremblay, K., Picton, T. W., & Ross, B. Auditory evoked MEG responses to interaural phase changes: Effects of aging on response latencies In D. Cheyne, B. Ross, G. Stroink and H. Weinberg (Eds.) *International Congress Series 1300: New Frontiers in Biomagnetism*, Elsevier, New York, 2007, pp 69-72.
58. Chau, W., Ross, B., Tisserand, D., Restagno, A., Picton, T., Stuss, D., & Levine B. Traumatic brain injury patients show increased gamma activity during visual feature-matching. In D. Cheyne, B. Ross, G. Stroink and H. Weinberg (Eds.) *International Congress Series 1300: New Frontiers in Biomagnetism*, Elsevier, New York, 2007, pp 405-408.

59. Picton, T. W., and Ross, B. Physiological measurements of human binaural processing. . In J. Buchholz, T. Dau, J. C. Dalsgaard, & T. Poulsen (Eds.), *Binaural processing and spatial hearing: Proceedings of the Second International Symposium on Audiological and Auditory Research (ISAAR 2009)*. Helsingør, Denmark: Danavox Jubilee Foundation, 2010, pp. 15-28.
60. Picton, T. W. The necessary narrative. In B. Levine and F. I. M. Craik (Eds.) *Mind and the frontal lobes. Cognition, Behavior and Brain Imaging*. Oxford University Press, New York, 2012, pp. 264-278.
61. Picton, T.W., Taylor, M.J., Durieux-Smith, A. Brainstem auditory evoked potentials in pediatrics. In Aminoff, M.J., (Ed.) *Electrodiagnosis in Clinical Neurology*, Elsevier Churchill Livingstone, Philadelphia, 6th. Edition, 2012, pp. 553-579.
62. Picton, T.W. Auditory brainstem responses. In J. S. Damico, & M. J. Ball (Eds.) *The SAGE Encyclopedia of Human Communication Sciences and Disorders..* Thousand Oaks, CA: Sage, 2019, pp 206-211.
63. Picton, T.W. Auditory steady-state responses. In J. S. Damico, & M. J. Ball (Eds.) *The SAGE Encyclopedia of Human Communication Sciences and Disorders.* Thousand Oaks, CA: Sage, 2019, pp 233-237

C) Articles in Journals (* peer-reviewed)

1. Taguchi, K., Picton, T.W., Orpin, J.A. and Goodman, W.S. Evoked response audiometry in newborn infants. *Acta Otolaryngol., Suppl.* 252: 5-17, 1969.
- 2.* Picton, T.W., Goodman, W.S. and Bryce, D.P. Amplitude of evoked responses to tones of high intensity. *Acta Otolaryngol.* 79: 77-82, 1970.
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- 131.* John, M.S., Dimitrijevic, A.¹, and Picton, T. W. Efficient stimuli for evoking auditory steady-state responses. *Ear and Hearing*, 24:406-423, 2003. (This article was chosen as one of the best articles of 2003 in the “most thought provoking” category in the review of “The best of 2003: diagnostic audiology” by B. Stach in *Hearing Journal* 57 (5) pp 19-21, May 2004.)
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generators. *Anesthesiology*, 108:233-242, 2008.

165.* Shallice, T., Stuss, D.T. Alexander, M.P., Picton, T.W., and Gillingham, S. Multiple effects of prefrontal lesions on task-switching. *Frontiers in Human Neuroscience*, 1: 2, 2008, (published online doi: 10.3389/neuro.09/002.2007).

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179.* Picton, T. W. Hearing in time: Evoked potential studies of temporal processing. *Ear and Hearing*, 34: 385-401, 2013.

180. Alexander, M.P., Picton, T.W., & Shallice, T. Donald T. Stuss: A Remembrance. *Journal of Cognitive Neuroscience*. 32: 379-385, 2020.

D) Book reviews

1. Picton, T.W. Data without theory (Book review of *Human Evoked Potentials: Applications and Problems* edited by D. Lehman and E. Callaway). *Trends in Neuroscience* 3(2): XIII, 1980.
2. Picton, T.W. The music of the hemispheres (Book review of *EEG and Evoked Potentials in Psychiatry and Behavioral Neurology* ed. by J.R. Hughes and W.P. Wilson) *Can. Med. Ass. J.* 131: 247-248, 1984.
3. Picton, T.W. Book review of *Evoked Potential Primer* by R. Spehlmann *Can. J. Neurol. Sci.*, 13: 151-152, 1986.
4. Picton, T.W. Book review of *Handbook of Neurological Diagnosis* by J.W. House and A.F. O'Connor. *Can. J. Neurol. Sci.*, 15: 90-91, 1988.
5. Picton, T.W. Book review of *Human Brain Electrophysiology* by D. Regan. *J Clin Neurophysiol* 7:450-452, 1990.
6. Picton, T.W. Compte-rendu de *Physiologie de la Cochlée* par J.M. Aran, A. Dancer, J.M. Dolmazon, R. Pujol et P. Tran Ba Huy. *Audiology*, 29:347, 1990.
7. Picton, T.W. Review of *Electrophysiology of Mind: Event-Related Brain Potentials and Cognition* edited by M.D. Rugg and M.G.H.Coles. *Psychophysiology* 33:612-613, 1996

E) Published Committee Reports

1. Summary of ABR Standards and Appropriate Transcript of Discussion. In Starr, A., Rosenberg, C., Don, M., and Davis, H. *Sensory Evoked Potentials 1. An International Conference on Standards for Auditory Brainstem Response (ABR) Testing*. Amplifon, Milan, 1984, pp. 1-32.
2. Recommended Standards for the Clinical Practice of Evoked Potentials. *J Clin Neurophysiol* 1: 6-10, 1984; also 3 (Suppl 1): 6-10, 1986. Revised Version 11:41-45, 1994
3. Recommended Standards for Short-Latency Auditory Evoked Potentials. *J Clin Neurophysiol* 1: 32-40, 1984; also 3 (Suppl 1): 71-79, 1986. Revised Version 11: 60-66, 1994
4. American Electroencephalographic Society Guidelines for Standard Electrode Position Nomenclature. *J Clin Neurophysiol* 8: 200-202, 1991. Also 11:111-113, 1994
5. Canadian Society of Clinical Neurophysiologists. Minimum Standards for Clinical Evoked Potential Studies. *Can J. Clin. Neurosci.*, 21: 75-77, 1994.

PATENTS

John, M. S., and Picton, T. W. System and methods for objective evaluation of hearing using auditory steady-state responses. US 6,602,202, filed May 18, 2001, finalized August 5, 2003. European 04254693.7, Aug 5, 2004. This patent was licensed to Bio-Logic Systems Corporation in 2002. In 2004 Bio-Logic's commercial version of the system was awarded the Frost and Sullivan's Excellence in Technology of the Year Award in the field of hearing aids and diagnostic technologies.

RESEARCH GRANTS**Canadian Geriatric Research Society**

"The Neurophysiology of Aging and Dementia" (Picton, Stuss & Nelson)

1981-82	\$ 29,759
1982-83	30,560
1983-84	36,500
1984-85	23,000

Canadian Institutes of Health Research (previously Medical Research Council)

MT-5465 - "Human Auditory Evoked Potentials" (Picton)

1975-77	\$ 35,875
1977-78	19,000
1978-79	22,000
1979-82	89,000
1982-85	120,000
1985-90	290,000
1990-92	135,742
1992-95	198,987

ME-7006 - "PDP 11/03 Computer System" (Picton, Broughton, Stuss)

1979	\$ 25,389
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ME-9049 - "Updating of Equipment for Evoked Potential Research" (Picton)

1985	\$ 37,394
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ME-12025 - "Equipment for Evoked Potential Analysis" (Picton)

1993	\$ 42,030
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MA-7346 - "Neurophysiological Studies of Language Disorders" (Stuss, Picton & Guberman)

1980-82	\$ 35,000
1982-84	\$ 42,000

MA-11703 - "Frontal Lobe Functions: Anterior Attentional Processes" (Stuss, Shallice, Alexander & Picton)

1994-95	\$ 25,000
MT-12853 1995-98	234,414

MT-13364 - "Human Event-Related Potentials" (Picton)

1996-1998	\$ 175,655
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(This grant became part of the Group Grant as of October, 1998 with same number and title, but with addition of Claude Alain as co-applicant)

1998-2003	\$392,205
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(This grant continued as part of the new group grant in 2003, combined together with the Evoked Potential Audiometry grant, and with just Picton as investigator).

2003-2008	\$513,860
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MT-14362 - "Evoked Potential Audiometry" (Picton, Kunov, Hyde, Durieux-Smith, Stapells)

1997-2000	\$ 253,794
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	new co-investigators (Picton, Stapells, John)	
	2000-2003	\$ 236,082
MGC-14974	“A multidisciplinary approach to brain-behaviour relations in aging, dementia and frontal damage” (Group Grant to Rotman Research Institute: Stuss, Black, Levine, Picton, Winocur)	
	1998-2003	\$3,438,920
	of which the core totals:	\$1,293,630
	This grant was continued as “CIHR Brain and Aging Group at the Rotman Research Institute” (Stuss et al)	
	2003-2008 (core only)	\$2,074,570
MOP 44063	“Magnetoencephalographic studies of the human auditory cortex” (Pantev, Picton, Alain) In 2003, Picton became the principal investigator when Pantev returned to Germany.	
	2001-2006	\$ 752,450
PPP 53681	“A screening test for hearing using auditory steady-state responses” (Picton, John, Brown)	
	2002-2003	\$ 95,047
MOP 81135	“Aging-related changes in central hearing: A neuromagnetic study ” (Ross, Alain, Picton)	
	2006-2011	\$ 681,170

Hearing Foundation of Canada

	"Estimating Processing Delays in the Human Auditory System" (Purcell and Picton)	
	2002-03	\$ 12,000
	"Effects of Stimulus Rate on the Human Auditory Steady-State Responses" (Picton)	
	2003-04	\$ 22,500

Hospital for Sick Children Foundation (Toronto)

	"Objective Audiometry in Infancy" (Picton and Durieux-Smith)	
	1993-95	\$ 87,895

James S. McDonnell Foundation

	"Study Group on Higher Cognitive Functions" (Picton)	
	(This grant was to fund meetings and pilot projects in the neuroscience of higher cognitive functions and although administered by me most of the money was allocated to others)	
	1987-89	US\$ 234,000
	"Rehabilitation of Attentional Problems Following Traumatic Brain Injury" (Picton, Robertson, Stuss)	
	1998-2000	US\$ 54,268

National Health Research and Development Programs

"A Comparison of Crib-O-Gram and Brainstem Electric Response Audiometry in the Screening of Hearing Loss in High Risk Neonates" (Smith, Goodman, MacMurray & Picton)

1982-84 \$ 142,602

Natural Science and Engineering Research Council

"Visual and Auditory System Abnormality Correlated with Chronic Low-level Lead and Mercury Intoxication in Man and Monkey" (Tansley, Rice, Kelly & Picton)

1980-83 \$ 24,000

"Mechanisms of Memory" (Picton)

1995-99 \$ 64,000

North Atlantic Treaty Organization

"Auditory Evoked Potentials: Dipole Source Analysis of Endogenous Components"
(Scherg & Picton)

1988-91 US\$ 7,400

Ontario Deafness Research Foundation

"Studies in Evoked Potential Audiometry" (Picton)

1982-84 \$ 28,000

"Audiometry Using Steady State Evoked Potentials" (Picton)

1986-87 \$ 9,900

"Evoked Potential Studies of Suprathreshold Hearing" (Picton)

1988-89 \$ 9,900

Ontario Mental Health Foundation

"Evoked Potential Studies of Schizophrenic Patients" (Picton)

1977-78 \$ 15,810

"Attentional Disorders in Closed Head Injury" (Stuss, Picton, Hugenholtz & Richard)

1986-88 \$ 69,935

"Event-Related Potential Studies of Aging and Dementia" (Picton)

1996-97 \$ 16,182

Physicians Services Incorporated

"The Post-traumatic Sequelae Following Concussion" (Hugenholtz, Stuss, Picton, & Richard)

1984 \$ 15,053

TEACHING**Continuing Medical/Professional Education**

American Academy of Audiology
American Academy of Neurology
American Speech and Hearing Association
American EEG Society
American Society for Clinical Evoked Potentials
Brazilian EEG Society
British Cochlear Implant Group
Canadian Congress of Clinical Neurosciences
Canadian Academy of Audiology
Canadian Association of Speech-Language Pathologists and Audiologists
Danish Technical Audiometry Society
German Audiological Society
Harvard University
International Federation of EEG and Clinical Neurophysiology
Louisiana State University
Manhattan Eye, Ear and Throat Hospital
New Jersey Speech-Language-Hearing Association
New York State Speech Language Hearing Association
New Zealand Audiological Society
Norwegian Technical Audiometry Society
Ontario Association of Speech-Language Pathologists and Audiologists
The EEG Society (London, England)
University of Ottawa
University of Toronto
University of California (Davis)
University of California (San Diego)
University of California (Irvine)
Wisconsin Speech-Language Pathology and Audiology Association

Medical School Teaching

Neuroanatomy and Neurophysiology (These lectures - from 1974 to 1994 - were consistently considered by medical students in the top 10% of all lectures evaluated.)

Human Neurophysiology (Graduate Course)

Department of Psychology (Toronto) Teaching

Lectures in Graduate Seminars: Brain and Behaviour, Rotman Imaging Course

Ryerson LIFE (Learning is for ever) Institute

Human Brain, Brain and Mind (twice), Voices that Matter (20th Century Poetry), Intersections between Science and Religion, Northern Voices (Canadian Poetry), History of Science.

Living and Learning in Retirement Program (Glendon College)

Intersections between Science and Religion

Theses Supervised

Donald T. Stuss Ph.D. (Psychology, Ottawa) Electrophysiological correlates of human concept learning, 1976. Don was presently Professor of Psychology and Medicine (Neurology) at the University of Toronto. He was the founding Director of the Rotman Research Institute from 1989-2009, and was director of the Ontario Brain Institute from 2011-2015. He died in 2020.

Kenneth B. Campbell Ph.D. (Psychology, Ottawa) The effects of outcome of decision, task relevant information, incentive and value on the human evoked potential. 1976. Ken is now Professor of Psychology at the University of Ottawa.

Jacinthe Baribeau-Braun M.A. (Psychologie, Ottawa) Investigation du moment des premiers effets d'attention sélective sur les potentiels évoqués auditifs. 1977. Ph.D. (Psychologie, Ottawa) Corrélats neurophysiologiques d'attention focalisée et divisée chez des patients schizophrènes. 1981. Jacinthe is now Professor of Psychology at Laval University.

Guy-B. Proulx Ph.D. (Psychology, Ottawa) The effects of anxiety on event-related potentials during a learning task. 1981. Guy was the Director of Psychology at the Baycrest Centre for Geriatric Care in Toronto, and is now Professor of Psychology at York University (Glendon Campus).

Peter G. Fitzgerald M.A. (Psychology, Ottawa) The event-related potentials recorded during the discrimination of improbable stimuli. 1982. Peter went on to obtain an MD from McMaster University and FRCPC in surgery. Peter is now Professor of Pediatric General Surgery at McMaster and President of McMaster Children's Hospital.

Normand Perrault M.A. (Psychology, Ottawa) Neurophysiology of human problem solving. 1979. Ph.D. (Psychology) Scalp and nasopharyngeal recordings of human event-related potentials. 1982. Normand became a clinical psychologist in Ottawa.

David R. Stapells Ph.D. (Psychology, Ottawa) Studies in evoked potential audiometry. 1984. David became Professor (and ultimately Chairman) in the Department of Audiology and Speech Sciences at the University of British Columbia, Vancouver. He is currently retired.

R. Dean Linden Ph.D. (Physiology, Ottawa) Human auditory steady state evoked potentials. 1985. Dean was an Associate Professor of Neurological Surgery at the University of Louisville, Kentucky, and is now in business (ID Biomedical, CRH Medical, and most recently Cypress Hills, a specialty lending company).

Andrew Wiens B.Med.Sc. (Medicine, Ottawa) Event-related potential correlates of categorical speech perception. 1986. Andrew is an Associate Professor of Psychiatry at the University of Ottawa and Head of the Division of Geriatric Psychiatry.

Anita C. Maiste Ph.D. (Psychology, Ottawa) Human auditory event-related potentials to frequency changes in speech and non-speech sounds. 1989. Anita was an Adjunct Assistant Professor in the Department of Psychiatry and Behavioral Sciences at the University of Louisville, Kentucky and an Epidemiologist, Louisville/Jefferson County Health Department.

Jiri Vajsar M.Sc. (Physiology, Ottawa) The mismatch negativity evoked by changes in the frequency of an auditory stimulus. 1990. Jiri is an Associate Professor of Pediatrics at the University of Toronto at the Hospital for Sick Children.

Gilles Plourde, M.Sc. (Physiology, Ottawa) Human auditory steady-state response, electroencephalogram, and late auditory evoked potentials during general anesthesia. 1990. Gilles is a Professor of Anesthesia at the Montreal Neurological Institute, Montreal.

Linda K. McEvoy, Ph.D. (Psychology, Ottawa) Auditory evoked potentials to shifts in the lateralization of a binaural noise. 1991. Linda is Professor in the Herbert Wertheim School of Public Health and Human Longevity Science, and in the Department of Radiology, University of California, San Diego.

Otavio G. Lins, M.Sc. (Physiology, Ottawa). Ocular artifacts in recording EEGs and event-related potentials. 1993. Otavio worked on his Ph.D. with me at the University of Ottawa and finally finished his

doctorate. at the University of Sao Paulo. He is currently Professor Adjunto, Departamento de Neuropsiquiatria, Faculdade de Medicina, Universidade Federal de Pernambuco, Recife.

J. Andrew Moulden, Ph.D. (Psychology, Ottawa) Physiological mechanisms of task-switching in human subjects. 1999. Drew completed his MD at McMaster University in 2000. He was doing a residency in psychiatry at the University of Saskatchewan (Regina) when he died in 2013.

Kimberley Kane, Ph.D. (Psychology, Toronto) Electrophysiological indices of conscious and automatic memory processes. 2000. Kimberley is a clinical psychologist.

M. Sasha John, Ph.D. (Medical Science, Toronto) Investigations into the multiple auditory steady-state response (MASTER) technique in humans. 2000. Sasha became a Research Associate at the Rotman Research Institute, and is now a scientist at Angel Medical Systems in Shrewsbury, New Jersey.

Maria L. Armilio, M.A. (Psychology, Toronto) Event-related potentials during learning and recognition of complex pictures. 1997. Ph.D. (Psychology, Toronto) Electrophysiological correlates of response inhibition and error processing: the effects of strategic manipulation, feedback and traumatic brain injury. 2002. Maria is now a clinical psychologist.

Andrew Dimitrijevic Ph.D. (Medical Science, Toronto) Investigations in MASTER (Multiple Auditory Steady-State Reseponse): Pure tone and speech audiometry applications. 2003. Andrew is an Assistant Professor in the Department of Otolaryngology – Head and Neck Surgery at the University of Toronto.

Ali Mazaheri, M.Sc. (Medical Science, Toronto). The spectral dynamics of EEG during target discrimination in the auditory and visual modalities. 2003. Ali obtained his Ph. D. at the Donders Centre for Cognitive Neuroimaging in Nijmegen in the Netherlands (Radboud University), and is presently an Associate Professor in the School of Psychology at the University of Birmingham.

Steven Aiken, Ph.D. (Medical Science, Toronto). Human brain responses to speech sounds. 2008. Steve is now an Associate Professor in the School of Human Communication Disorders at Dalhousie University in Halifax.

Postdoctoral Fellows

Leslie Suranyi (Canada) July 1979 – June 1980

Marilyn Perez-Abalo (Cuba) May 1983 – August 1983

Rosendo Rodriguez (Mexico City) April 1984 – October 1985

Otavio Gomes Lins (Brazil) January 1989 – September 1990; July 1994-September, 1996.

Magdolna Vezsenyi (Hungary) August 1991 – February 1992

Vivian Martin (Cuba) March 1994 – May 1994

Jeni Mangels (USA) September 1995 – July 1998

Leun Otten (Holland) September 1997 – December 1998

David Shore (Canada) September 1999 – December 2000

Sasha John (USA) November 2000 – August 2003

David Purcell (Canada) November 2000 – August 2003

Antoine Shahin (USA) September 2003 – September, 2005

Anthony Herdman (Canada) September 2003 – September 2005

Hilmi Dajani (Canada) November 2003 – December 2006

Takako Fujioka (Japan) September 2004 – September 2006

Karolina Kluk (England) March 2006 – April 2006

External Examiner for Doctoral Theses

Murray Brooker, Department of Psychology, Queen's University, Kingston, 1980

David Doyle, Department of Electrical Engineering, University of Toronto, 1985

Kimmo Alho, Department of Psychology, University of Helsinki, Finland, 1987

Curtis Ponton, Department of Psychology, University of Calgary, 1989

Enriqueta Canseco-Gonzalez, Dept of Psychology, Brandeis University, Waltham, Mass, 1991

Claude Alain, Département de Psychologie, Université du Québec à Montréal, 1991

Ross Hetherington, Department of Psychology, University of Toronto, 1994
 Margaret Oates, Speech and Hearing Science, City University of New York, 1995
 Kaisa Hartikainen, Department of Physiology, Tampere University, Finland, 1996
 Elizabeth Pang, Department of Psychology, York University, Toronto, 1997.
 Jodi Ostroff, Speech and Hearing Science, City University of New York, 1999.
 Patrick May, Department of Mathematics, King's College, University of London, UK, 1999.
 Timothy Budd, Department of Psychology, University of Western Australia, Nedlands, Australia, 2000
 Yury Shtyrov, Department of Psychology, University of Helsinki, Finland, 2000
 Vardit Lichtenstein, Speech and Hearing Science, City University of New York, 2001
 Dan Bosnyak, McMaster University, Hamilton, 2003
 Julia Wunderlich, Otolaryngology, University of Melbourne, 2004.
 Carrie Scarff, Psychology, University of Calgary, 2004.
 Heleen Luts, Katholieke Universiteit Leuven, 2005.
 Bram van Dun, Katholieke Universiteit Leuven, 2008.

INVITED LECTURES

Albert Einstein College of Medicine (Bronx, New York)	Tanta University (Egypt)
City University of New York (Herbert Lehman College)	Université de Laval
Clarkson University (Potsdam, New York)	Université de Bordeaux
Cornell University Medical Center (New York)	Université de Montréal
Cuban Neuroscience Center (Havana, Cuba)	Université de Québec à Montréal
Dalhousie University (Halifax, Nova Scotia)	Université de Sherbrooke
Georgia Institute of Technology	University of Belfast
Johns Hopkins University (Baltimore, MD)	University of Calgary
Katholieke Universiteit Leuven	University of California (Irvine)
Louisiana State University, School of Medicine in New Orleans	University of California (San Diego)
Max Planck Institut für Psychiatrie (München)	University of Connecticut
McMaster University (Hamilton, Ontario)	University of Heidelberg (Germany)
National Hospital for Nervous Diseases (London)	University of Helsinki
National Institute of Mental Health (Bethesda, Maryland)	University of Illinois (Champaign)
National Institute of Neurological Disorders and Stroke (Bethesda)	University of Jyväskylä (Finland)
Northwestern University (Evanston, Illinois)	University of Kyoto
Purdue University (Indiana)	University of Nottingham
Queen's University (Kingston)	University of Manitoba
Shinshu University (Matsumoto, Japan)	University of Münster (Germany)
Simon Fraser University (Burnaby, B.C.)	University of Oregon (Eugene)
	University of Tokyo
	University of Toronto
	University of Western Ontario
	York University (Toronto)

ADMINISTRATIVE EXPERIENCE

Review Committees for Granting Agencies

Ontario Mental Health Foundation
Medical Research Council of Canada (Neurological Sciences: member, 1979-85; Behavioural Sciences A: member, 1994-97; scientific officer, 1998-2000; chairman, 2000-2002)
James S. McDonnell Foundation
Pew Charitable Trusts
Multiple *ad hoc* committees for National Institutes of Health

Advisory Boards

Cognitive Neuroscience Institute (New York, Dartmouth, Sacramento)
Hugh Knowles Hearing Center (Northwestern)

Academic Societies

American EEG Society (Evoked Potentials Committee)
Canadian Association for Neuroscience (Councillor)
Canadian Society of Clinical Neurophysiologists (President, 1984-86)
Canadian Congress of Neurological Sciences (Program Committee; Local Arrangements Committee for Ottawa Meetings)
International Electric Response Audiometry Study Group (Chairman, 1985-89; Councillor 1983-99)
Ottawa Neurosciences Society (President, 1987-88)
Society for Psychophysiological Research (Board of Directors, 1997-2000)

University of Ottawa

Faculty Council
B. Med. Sc. Committee
Neurosciences Specialization Committee
Committee for a Graduate Program in Neuroscience
Selection Committees (Infectious Diseases, Endocrinology, General Internal Medicine, Obstetrics and Gynecology, Surgery, Ophthalmology)

Department of Medicine, University of Ottawa

Acting Chairman (1990-91)
Teaching Personnel Committee
Advisory Committee
OGH Medical Associates (Board Member, 1987-92; Vice-President, 1989-91)

Ottawa General Hospital

Human Experimental Procedures Committee (Member, 1980-92; Chairman, 1986-92)
Medical Ethics Committee (Member, 1989-92)
Research Committee
Committee for the Medical Applications of Computers

Rotman Research Institute, Baycrest Centre, and University of Toronto

Rotman Computer Management Committee
Various Selection Committees (Chairpersons for Dentistry and Psychiatry, MRI Scientist, MEG Scientist)
Promotions Committee (Department of Psychology).