

CURRICULUM VITAE

C. ELAINE LITTLE

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OBJECTIVES

I am a Clinician Scientist with the objective of integrating research with clinical care in order to create a strong foundation of evidence-based practice in the Physiotherapy profession. One focus of my future plans is to participate in shifting Physiotherapy culture, to include research principles within daily practice. Models exist, in both Canada and abroad, which demonstrate the feasibility of combining the two entities. My vision is to develop mentorship programs for both graduate students and physiotherapists interested in developing and/or integrating research into a clinical setting (public or private practice). Through these actions, I hope to foster a strong relationship between academic and clinical environments. In addition, I wish to promote the utilization of research principles to obtain the outcomes desired by both Physiotherapists, funding agencies and Canadians requiring physiotherapy services; high quality, effective techniques that restore function and allow individuals to participate in life at their optimal level.

RESEARCH DIRECTIONS

The scope of my clinical skills is broad, including the areas of neurology (e.g. traumatic brain injury/concussion - youth and young adults), musculoskeletal injuries impacting normal function in daily life, rehabilitation of individuals with amputations (youth, young adults, older adults) and fall prevention among older adults. I plan to utilize knowledge in the area of Neuroscience as well as the clinical and technical skills I have acquired, to study movement dysfunctions. The main focus of my research during graduate studies was motor control, specifically neural mechanisms associated with the control of posture in young adults and changes in neural mechanisms associated with aging. This work helped to expand my knowledge and understanding of the functional impact of neural changes associated with the aging process to inform the development and implementation of fall prevention programs. Moving forward I am interested in broadening my focus of study to include evaluation of changes in neural mechanisms secondary to concussion/mild traumatic brain injury and how associated functional changes among this group compare with those seen across the continuum of aging.

EDUCATION

- 2007- 2012 PhD (Neuroscience), University of Oregon, Oregon, US
- 1995-1997 M. Sc. (Kinesiology), University of Waterloo, Waterloo, Ontario
- 1982-1985 B.Sc. (Physiotherapy), Dalhousie University, Halifax, Nova Scotia

AWARDS & SCHOLARSHIPS

- 2015/2016 Talisman Energy Fund in Support of Healthy Living (Alberta Children's Hospital Research Institute) (\$40,000)
- 2012/2013 Eugene Evonuk Memorial Graduate Fellowship Award (\$10,000)
- 2012/2013 Betty Foster McCue Fellowship Award (\$5000)
- 2011/2012 Graduate Teaching Fellowship (\$30,118)
- 2007/2011 NIH Aging Grant: PI - Dr. Marjorie Woollacott (\$80,000)
- 2009 Mosberger Travel Grant – International Society for Posture and Gait Research (\$500)

TEACHING AND SUPERVISORY EXPERIENCE**COURSES**

2012

Fall **Exercise As Medicine** (HPHY 101): Graduate Teaching Fellow - University of Oregon, Department of Human Physiology.

Summer **Human Anatomy** (HPHY 323): Graduate Teaching Fellow - University of Oregon, Department of Human Physiology.

Winter **Medical Terminology** (HPHY 211): Graduate Teaching Fellow - University of Oregon, Department of Human Physiology.

Spring **Motor Control** (HPHY 333): Lab Coordinator - University of Oregon, Department of Human Physiology.

2011

Fall **Concepts in Neuro Rehabilitation** (HPHY 410/510): Principle Instructor - University of Oregon, Department of Human Physiology.

2009

Spring **Motor Control** (HPHY 333): Principle Instructor - University of Oregon, Department of Human Physiology.

2008

Fall **Alternative & Complementary Medicine** (HPHY 410/510): Co-Instructor – University of Oregon, Department of Human Physiology.

Spring **Motor Control** (HPHY 333): Graduate Teaching Fellow - University of Oregon, Department of Human Physiology.

- Winter **Concepts in Neuro Rehabilitation** (HPHY 410/510): Principle Instructor - University of Oregon, Department of Human Physiology.
- 2007 **Mentorship Roster** - Mentored a clinical physiotherapist preparing for the Intermediate Orthopaedic Manual and Manipulative Physical Therapy Examination as part of the Mentorship requirement by the CPA, Orthopaedic Division, Calgary, Alberta
- 2001
Winter **Normal Functional Movement** (Rehab 200): Principle Instructor - SAIT, Calgary, Alberta, Rehabilitation Therapy Assistant Program.
- Therapeutic Skills (OTA/PTA)** (Rehab 204): Co-Instructor - SAIT, Calgary, Alberta, Rehabilitation Therapy Assistant Program.
- Spring **Physical Therapy Assistant Therapeutic Skills** (Rehab 212): Principle Instructor - SAIT, Calgary, Alberta, Rehabilitation Therapy Assistant Program.
- Summer **Electrical Modalities** (Rehab 216): Principle Instructor - SAIT, Calgary, Alberta, Rehabilitation Therapy Assistant Program.
- 2000
Winter **Normal Functional Movement** (Rehab 200): Principle Instructor - SAIT, Calgary, Alberta, Rehabilitation Therapy Assistant Program.
- Therapeutic Skills (OTA/PTA)** (Rehab 204): Co-Instructor - SAIT, Calgary, Alberta, Rehabilitation Therapy Assistant Program.
- Spring **Physical Therapy Assistant Therapeutic Skills** (Rehab 212): Principle Instructor - SAIT, Calgary, Alberta, Rehabilitation Therapy Assistant Program.
- Fall **Electrical Modalities** (Rehab 216): Principle Instructor - SAIT, Calgary, Alberta, Rehabilitation Therapy Assistant Program.
- 1999
Winter **Normal Functional Movement** (Rehab 200): Guest Lecturer - Southern Alberta Institute of Technology (SAIT), Calgary, Alberta, Rehabilitation Therapy Assistant Program.
- 1998 **Clinical Intervention for Individuals with Lower Extremity Amputations:**

- Developed and instructed this post-graduate continuing education course for Physiotherapists, relating to management of individuals with amputations. George Dumont Hospital, Moncton, New Brunswick, Canada.
- 1997
Winter **Neuroanatomy** (Kin 201): Teaching Assistant - University of Waterloo, Faculty of Kinesiology.
- 1996
Spring **Research Methods** (Kin 330): Teaching Assistant - University of Waterloo, Faculty of Kinesiology.
- Winter **Neuroanatomy** (Kin 210): Teaching Assistant - University of Waterloo, Faculty of Kinesiology.
- 1995
Fall **Assessment of Pathological Movement** (Kin 422): Teaching Assistant – University of Waterloo, Faculty of Kinesiology.
- 1993-1995 **Caring For The Amputee: How You Make The Difference:** Participated in developing and instructed a continuing education course for Health Care Professionals i.e. Physiotherapists, Physicians, Occupational Therapists, relating to management of individuals with amputations. Nova Scotia Rehabilitation Center, Halifax, Nova Scotia.
- 1989-1992 **Management of Individuals with Amputations** (PT 3020A) Sessional Lecturer - organized lectures, guest speakers, lab sessions with patients so students could apply principles learned during the course, e.g. donning and doffing of the prosthesis, assessments. Dalhousie University, School of Physiotherapy.
- 1991 **Clinical Application of Lower Extremity Amputees:** Developed and instructed a continuing education course relating to management of individuals with amputations for Physiotherapists. Moncton General Hospital, Moncton, New Brunswick, Canada.

Furthermore, I have worked with/supervised approximately 25 Physiotherapy students over the course of my clinical career, in a mentoring capacity, as part of the clinical practicum requirement of their education experience.

PREVIOUS ACADEMIC & CLINICAL HISTORY

2007/2012 Department of Human Physiology, University of Oregon, Eugene, Oregon
PhD - *The Role of Attention in Fall Avoidance: Evaluation of Dual Task Interference with Postural and Visual Working Memory Tasks in Young Versus Older Adults, Does Capacity Limitation Influence Postural Responses?*

The primary purposes of this research were: 1) to evaluate the nature of the interaction pattern between temporary storage of information (as targeted by the change detection task) and tasks of various postural challenge levels, 2) to determine whether older adults demonstrate a “general” decline in visual working memory capacity as compared to young adults, and 3) demonstrate the effect of aging on the automatic postural response under the current dual-task postural paradigm. The goal of this work was to increase our understanding of neural mechanisms associated with the control of balance and particularly how these mechanisms are affected by aging.

2000/2007 THE Downtown Sports Clinics, Calgary, Alberta

Clinical Physiotherapist Consultant (full-time)

Management strategies applied to a broad range of orthopaedic dysfunctions, e.g. repetitive injuries (both spinal and peripheral in nature), pre and post-surgical care, sport related injuries, motor vehicle related injuries (whip-lash and vestibular system dysfunction), self-management and injury prevention education, and patient advocate.

Rehabilitation techniques included acupuncture, manual therapy (spinal and peripheral joint manipulation), individualized exercise prescription with progressions, use of electrical modalities as indicated (ultra sound, interferential current, electrical muscle stimulation, heat and cold), passive stretching to reduce contractures post-surgically.

Developed and implemented hydrotherapy programs on an individual basis as indicated.

Professional Consultation: regular documentation of individuals response to treatment, legal documentation and physician updates or recommendations, injury management consultations.

2006/2007 Brain Injury Rehabilitation Center (BIRC), Calgary, Alberta

Clinical Physiotherapist Consultant (part-time)

Management of neural dysfunctions associated with mild, moderate, and severe Traumatic Brain Injury (TBI). As part of a multi-disciplinary team, we developed strategies to assist both the individual and family members manage both primary (physical dysfunction) and secondary (e.g. prolonged sleep hours, lack of social inhibitions, impulsive behavior) issues that related to the injury.

Developed and implemented hydrotherapy programs on an individual basis as indicated.

Development and progression, with ongoing evaluation of cardiovascular training to increase general endurance, strengthening programs, integration and reinforcement the use of memory aids into the treatment program (e.g. hand held electronic device). Rehabilitation techniques included manual therapy techniques (spinal and peripheral manipulations), acupuncture, and use of electrical modalities as indicated (ultra sound, interferential current, electrical muscle stimulation, heat and cold).

Professional Consultation: regular documentation of individuals response to treatment, legal documentation and physician updates or recommendations.

2006/2007 Clinical Mentorship Program: Orthopaedic Division, Canadian Physiotherapy Association (CPA), Calgary, Alberta

Clinical Physiotherapist Consultant

Mentored physiotherapists preparing for the Intermediate Orthopaedic Manual and Manipulative Physical Therapy Examination.

2006 Clinical Research Mentorship, Calgary, Alberta

Neck flexor endurance in individuals without neck pain or headache using the chin tuck-head lift, a simple clinical test of neck flexor function.

Mentored and provided editorial assistance to a Physiotherapist colleague working in private practice, guided him through the ethics review process outlined by the Alberta Heritage Foundation; were successful with the ethics review process.

Data for the research project was collected within the private practice environment.

1999/2000 University of Calgary Sports Medicine Clinic, Calgary, Alberta

Clinical Physiotherapist (six month locum)

Management strategies applied to orthopaedic dysfunctions, e.g. pre and post-surgical care, sport related injuries, self-management and injury prevention education.

Rehabilitation techniques included manual therapy techniques (joint mobilization) individualized exercise prescription with progressions, use of electrical modalities as indicated (ultra sound, interferential current, electrical muscle stimulation, heat and cold, stationary bicycle, arm ergometer).

Professional Consultation: regular documentation of individuals response to treatment, legal documentation and physician updates or recommendations.

1999/2000 Orthopaedic Trauma and Lower Extremity Reconstruction, Foothills Medical Center, Calgary, Albert

Distal biceps tendon rupture.

Research Assistant (part-time)

Completed literature review, established research protocol, data acquisition and analysis, provided PI (Dr. Collin Fennell) with data set and project progress report.

1999/2000 Alberta Children's Hospital, Calgary Regional Health Authority (CRHA), Calgary, Alberta

Clinical Physiotherapist (weekend coverage)

Provided physiotherapy treatment services to a broad group of patient populations ranging from neurological (cerebrovascular accident, traumatic brain injury), burns, post-surgical (severe scoliosis), ICU (pre-term infants), genetic disorders (cystic fibrosis).

1999 Maximum Potential Physiotherapy, Calgary, Alberta

Clinical Physiotherapist (six month locum)

Management strategies applied to orthopaedic dysfunctions, e.g. work related injuries, motor vehicle related injuries (e.g. whip-lash), self-management and injury prevention education.

Rehabilitation techniques included manual therapy techniques (joint mobilization) individualized exercise prescription with progressions, use of electrical modalities as indicated (ultra sound, interferential current, electrical muscle stimulation, heat and cold).

Professional Consultation: regular documentation of individuals response to treatment, legal documentation and physician updates or recommendations.

1998 Foothills Medical Center, CRHA, Calgary, Alberta

Physiotherapist II

Management strategies applied to individuals with amputations: education to don and doff the prosthesis, residual limb skin and prosthesis care, gait training and identification of appropriate gait aids, prevention of open wounds, passive stretching to reduction contractures.

Participated in multi-disciplinary patient rounds to review progress, attended and participated in weekly Amputee Clinic (prosthetic prescription).

Amputee Clinic.

Administrative duties included junior staff performance evaluations, attendance at department planning meetings.

1998 Home Care, CRHA, Calgary, Alberta

Home Care Coordinator - Physiotherapist (six month locum)

Developed global management strategies for individuals living at home with underlying neural, cardiovascular, orthopaedic, rheumatologic dysfunctions.

Multidisciplinary approach to address general issues of hygiene, safety, and mobility within their environment.

Education of family members or care-providers (e.g. proper lifting and positioning techniques).

1997 QE II Health Science Center, Rehabilitation Center Site, Halifax, Nova Scotia

Physiotherapist

Management strategies applied to individuals with amputations: education to don and doff the prosthesis, residual limb skin and prosthesis care, gait training and identification of appropriate gait aids, prevention of open wounds.

Participated in multi-disciplinary patient rounds to review progress, attended and participated in weekly Amputee Clinic (prosthetic prescription).

Amputee Clinic.

1997 R. S. Dow Neurological Sciences Institute, Portland, Oregon

Research Fellowship

Contributed to the development of a research protocol that evaluated weighting of sensory input from the vestibular system during the control of balance. I also worked on data acquisition and analysis for the project.

1995/1997 Faculty of Kinesiology, University of Waterloo, Waterloo, Ontario

MSc - *Biomechanical and Neuromuscular Responses Following Multidirectional*

Perturbations Applied To The Trunk.

The primary purpose of this work was to provide support for the claim that the automatic (involuntary) postural response was hard wired, we predicted that a distal to proximal sequence of muscle activation would result when an unexpected external perturbation was applied to the trunk during quiet stance similar to that seen during perturbations of the support surface.

1985/1995 Nova Scotia Rehabilitation Center, Halifax, Nova Scotia

Clinical Physiotherapist

Individuals with Amputations: education to donn and doff the prosthesis, residual limb skin and prosthesis care, gait training and identification of appropriate gait aids, prevention of open wounds, prescription and progression of strengthening programs, passive stretching to reduction contractures.

Organized and participated in multi-disciplinary patient rounds to review progress of individuals, attended and participated in weekly multi-disciplinary Amputee Clinic (prosthetic prescription).

Three peer-reviewed articles were accepted for publication related to the care of individuals with amputations. This research informed my daily clinical practice.

In the area of Neurology: I worked with individuals who had sustained a spinal cord injury, moderate to severe traumatic brain injury, and cerebrovascular accident.

I applied principles of neural recovery such as positioning and repetitive movements to address issues related to mobility.

Developed and implemented hydro-therapy program on an individual basis as indicated.

In the area of Orthopaedics: Management strategies applied to orthopaedic dysfunctions, e.g. work related injuries, motor vehicle related injuries (e.g. whip-lash), self-management and injury prevention education.

Rehabilitation techniques included manual therapy techniques (joint mobilization) individualized exercise prescription with progressions, use of electrical modalities as indicated (ultra sound, interferential current, electrical muscle stimulation, heat and cold).

1986-1993 Grace Maternity Hospital, Halifax, Nova Scotia

Clinical Physiotherapist

Prenatal Clinic Instructor - prenatal classes in the area of exercising, breathing, and positioning during labour and delivery.

1986-1987 Young Women's Christian Association (YWCA), Halifax, Nova Scotia

Prenatal Instructor

Developed and instructed prenatal exercise program.

SPECIALIZATION/CERTIFICATION

2006 Certificate - Acupuncture Foundation of Canada Institute (AFCI)

- 2005 Injury Management Consultant (IMC), Alberta
- 2004 Diploma of Intermediate Orthopaedic Manual and Manipulative
Physiotherapy

RESEARCH SKILLS

The observational and creative thinking skills that I have acquired through clinical reasoning translate directly into the creation of innovative solutions to technical issues that arise during development of experimental paradigms when addressing research questions. This includes the ability to trouble shoot with malfunctioning equipment.

Examples:

1. I've developed a portable device (including its calibration) that could be used to apply external forces; a force transducer (LVDT) mounted onto a wooden handle.
2. Integration of equipment to characterize central nervous system output when maintaining posture following a disturbance to upright stance: EMG, force plates, motion analysis system (Optotrak and Motion Analysis), EEG.
3. Working knowledge of matlab and its application in data analysis.

PUBLICATIONS - PEER REVIEWED ARTICLES

Vickers JN, Causer J, Stuart M, **Little CE**, Dukelow S, LaVangie M, Nigg S, Arsenault G, Morton B, Scott M, Emery C. Effect of the look-up line on the gaze, head orientation and performance of elite ice hockey players. *European J Sports Sciences*. (conditionally accepted pending completion of revisions).

Little CE, Emery C, Scott SH, Meeuwisse W, Palacios-Derflinger L, Dukelow S. Children and adolescent ice hockey players with and without a history of concussion: a comparison of KINARM end point robot performance. (in preparation)

Little CE, Emery C, Black A, Scott SH, Meeuwisse W, Nettel-Aquirre A, Benson B, Dukelow S. Test retest reliability of KINARM robot sensorimotor and cognitive assessment: in pediatric ice hockey players. *J Neuroeng Rehabil*. 2015; 12: 1-18. (DOI: 10.1186/s12984-015-0070-0, URL: <http://jneuroengrehab.com/content/12/1/78>)

Little CE and Woollacott M. EEG Measures Reveal Dual-Task Interference in Postural Performance in Young Adults. *Exp Brain Res*, 2015; 233(1): 27-37 (DOI: 10.1007/s00221-014-4111-x).

Little CE and Woollacott M. Effect of Attentional Interference on Balance Recovery in Older Adults. *Exp Brain Res*, 2014; 232(7): 2049-60 (DOI:10.1007/s00221-014-3894-0).

Kirby RL, **Little CE**, McLeod D. Walker Inlet-Closure Strap for Unsteady Patients With Lower-Extremity Amputations. *Arch of Physical Med and Rehab*, 1999; 80: 725-727.

Rietdyk S, Patla AE, Winter DA, Ishac, MG, **Little, CE**. Balance recovery from medio-lateral perturbations of the upper body during standing. *J Biomech*, 1999; 32:1149-1158.

Little CE, Kirby RL, Connors M. Spandex Shorts To Assist Stump Shrinkage Of Lower-Limb Amputees: A Pilot Study. *Physiother Canada*, 1997; 49: 126-128.

Sapp J and **Little CE**. Functional Outcomes In A Lower-Limb Amputee Population. *Prosth & Orthot Int*, 1995; 19: 92-96.

PUBLICATIONS – EDITORIALS, REVIEWS, & ABSTRACTS

Little CE, Woollacott M. Under-activation of neural circuits in older adults following postural perturbation: an ERP study. Proceedings of the Twenty-fifth Conference of the Society for the Neural Control of Movement, Charleston, South Carolina, USA, April 21-24, 2015.

Little CE, Emery C, Black A, Scott SH, Meeuwisse W, Nettel-Aquirre A, Benson B, Dukelow S. KINARM robot test-retest reliability study in children ages 10-14. Alberta Children's Hospital Research Institute for Child and Maternal Health 2015 Research Symposium, April 15, 2015.

Little, CE, Vogel, EK, van Donkelaar, P, Chou, LS, Woollacott, M. The modulation of working memory capacity through manipulation of postural demands under dual task conditions. Proceedings of the Nineteenth Conference of the International Society for Posture and Gait Research, Balogna, Italy, June 21-25, 2009.

Little, CE and Kirby, RL. Walker Inlet-Closure Strap for Unsteady Patients with Lower Extremity Amputations. Abstract: Proceedings from the Tenth International Symposium of Prosthetics and Orthotics, Amsterdam, Netherlands, June 1998.

Little, CE, Patla, A, Winter, DA, Rietdyk S, Judge S. Unexpected Trunk Perturbations Reveal Considerable Complexity In Postural Control. Abstract: Proceedings from 13th International Symposium - Multisensory Control of Posture and Gait, Paris, France, June 1997.

Little, CE, McGill S, Patla, A. Evaluation Of The Rigid-Linked Segment Model Assumption For The Lower Extremity. Proceedings of the Ninth Biennial Conference of Canadian Society of Biomechanics, Vancouver, British Columbia, Canada, August, 1996.

Little, CE, Connors, M, Kirby, RL. The Use Of Spandex Shorts To Assist Edema Control Of Amputees. Proceedings from the Seventh International Symposium of Prosthetics and Orthotics. Chicago, IL, USA, July 1992.

Sapp, J and **Little, CE.** (1993). Functional Outcome Of An Amputee Program. Clinical and Investigative Medicine Vol.16(Supplement), Abstract 681, p B109.

Kirby, RL and **Little, CE.** (1990). “Outcomes of Artificial Lower Limb Fitting in Scotland” Physiotherapy Practice. Book Review.

PUBLICATIONS - DISSERTATIONS

Masters

Little, CE. Biomechanical and Neuromuscular Responses Following Multidirectional Perturbations Applied To The Trunk. Masters Thesis, University of Waterloo, Waterloo Ontario, 1997.

PhD

Little, CE. The Role of Attention in Fall Avoidance: Evaluation of Dual Task Interference with Postural and Visual Working Memory Tasks in Young Versus Older Adults, Does Capacity Limitation Influence Postural Responses? University of Oregon, Eugene, Oregon, USA, 2012.

PODIUM PRESENTATIONS

Little, CE, Woollacott, M. The Role of Attention in Fall Avoidance: Evaluation of Dual Task Interference with Postural and Visual Working Memory Tasks in Young and Older Adults: Does Capacity Limitation Influence Postural Responses? Montreal, Quebec, Canada, 93rd Congress of the Canadian Physiotherapy Association, May 2013.

Little, CE, McGill, S, Patla, A. Evaluation Of The Rigid-Linked Segment Model Assumption For The Lower Extremity. 9th Conference of the Canadian Society of Biomechanics, Vancouver, British Columbia, Canada, August 1996.

Little, CE, Connors, M, Kirby, RL. The Use Of Spandex Shorts To Assist Edema Control Of Amputees. 7th World Congress of the International Society for Prosthetics and Orthotics, July 1992.

POSTER PRESENTATIONS

Little, CE, Woollacott, M. Under-activation of Neural Circuits in Older Adults Following Postural Perturbation: An ERP Study. 25th Annual Meeting – Society for the Neural Control of Movement, Charleston, North Carolina, USA, April 2015.

Little, CE, Woollacott, M. EEG Measures Reveal Dual-Task Interference in Postural Performance in Young Adults. 24th Annual Meeting – Society for the Neural Control of Movement, Amsterdam, Netherlands, April 2014.

Little, CE, Woollacott, M. The Role of Attention in Balance Control: Evaluation of dual task interference with postural and visual working memory tasks in young and older adults: Does capacity limitation influence postural responses? 23rd Annual Meeting - The Society for the Neural Control of Movement, San Juan, Puerto Rico, April 2013.

Little, CE, Vogel, EK, van Donkelaar, P, Chou, LS, Woollacott, M. The modulation of working memory capacity through manipulation of postural demands under dual task conditions. 19th International Symposium – Posture and Gait, Bologna, Italy, June 2009.

Little, CE, Patla, A, Winter, DA, Rietdyk S, Judge S. Unexpected Trunk Perturbations Reveal Considerable Complexity In Postural Control. 13th International Symposium – Multisensory Control of Posture and Gait, Paris, France 1997.

SUPPORT FOR OTHER PEOPLES RESEARCH

2014 Reviewer for Journal of Neurophysiology
 2014 Reviewer for Journal of Psychology and Neuroscience
 2015 Reviewer for the Physical Medicine and Rehabilitation - International

SERVICE

2014 Open House - Kinesiology Department, University of Calgary: Demonstration highlighting dual task costs when pairing cognitive and gait tasks for high school students.

2014 Abstract Judge: Annual Report Safe To Play meeting, University of Calgary.

2015 Abstract Judge: Kinesiology Department, University of Calgary: Science in Seconds event.

PROFESSIONAL ORGANIZATIONS & AFFILIATIONS

2004/2007 Secretary for the Canadian Physiotherapy Association (CPA) Research Division, Calgary, Alberta.

2006/2007 Member of the Specialization Committee for the Canadian Physiotherapy Association (CPA), Calgary, Alberta.

1999/2000 Member of the Board of Director for the Alberta College of Physiotherapists, Edmonton, Alberta.

1996/1997 Representative for the Kinesiology Graduate Student Association (KGSA), Waterloo, Ontario.

1989/1995 Secretary for the Amputee Program Committee, Nova Scotia Rehabilitation Center, Halifax, Nova Scotia - Secretary.

1994 Secretary for the Atlantic Rehabilitation Research Association (ARRA), Halifax, Nova Scotia.

- 1987/1988 Corresponding secretary for the Nova Scotia College of Physiotherapists – Board of Directors, Halifax, Nova Scotia.
- 1987/1996 Member – Canadian Physiotherapy Association.
- 1998/present Member – Canadian Physiotherapy Association.
- 1992/1998 Member – International Association of Prosthetics and Orthotics.