

MICHAEL JOHN TABER

37 Nicholas Drive
St. Catharines, ON
Home telephone: 905-397-4801
Cell phone: 905-401-7421
mtaber@inbox.com

ACADEMIC QUALIFICATIONS

- 2006-2009 **Interdisciplinary (Kinesiology/Industrial Engineering/Psychology)**
 Doctor of Philosophy (candidate)
- Dalhousie University, Halifax, NS
 - Tentative completion date – July 2010
 - Dissertation Title: *Dynamic decision-making in microworlds: An examination of emergency response training within the offshore command and control system*
- 2004-2006 **Master of Science (Kinesiology)**
- Dalhousie University, Halifax, NS
 - Thesis title: *Simulated helicopter underwater escapes: Anxiety sensitivity and human performance.*
- 1999-2004 **Bachelor of Arts (Psychology/Business)**
- Mount Saint Vincent University, Halifax, NS

ACADEMIC AWARDS AND DISTINCTIONS

- 2007 **Best Graduate Oral Presentation**
The Effect of Emergency Breathing Systems during Helicopter Underwater Escape Training for the Land Force Element of the Standing Contingency Force. Association of Canadian Ergonomists 9th Annual Conference and AGM (Atlantic Region, Halifax)
- 2006 **Julien M. Christensen Graduate Student Award**
The effects of exposure training on anxiety sensitivity ratings: An examination of helicopter underwater escape and safety based training courses. 37th Annual Association of Canadian Ergonomists National Conference Proceeding (Banff).
- 2006 **Best Graduate Oral Presentation**
Simulated underwater helicopter escapes: Anxiety sensitivity and human performance. Association of Canadian Ergonomists 8th Annual Conference and AGM (Atlantic Region, Moncton).
- 2005 **Outstanding Biomedical Presentation**
Are Survival Rates Related to Incident Times During a Helicopter Ditching? Meeting at the Crossroads Graduate Conference – Dalhousie University.

ACADEMIC AND PROFESSIONAL EMPLOYMENT RECORD

2010-2012 **Brock University, St. Catharines, ON**

Post-Doctoral Fellow

- Project Title: The Effects of Prolonged Cold Exposure on Human Physiology and Cognitive Function

2008-2009 **Brock University, St Catharines, ON**

Sessional Lecturer (Foundations in Motor Behaviour – PEKN 2P05)

2008 **Dalhousie University, Halifax, NS**

Sessional Lecturer (Cognitive Ergonomics – KINE 4577)

- Course taught online

BSc (Kinesiology) Honour Project Second Reader

- Sarah Hopkins, *Helicopter Ditchings, Regulations and Survivability: A Comparison of the North Sea and the Gulf of Mexico* (completed May 2007)

2006-2007 **Survival Systems Training Ltd, Halifax, NS**

Research and Development Project Coordinator

- Responsible for developing and conducting cognitive and engineering psychology research projects related to human performance
- Responsible for submission of findings to peer-reviewed journals and dissemination of information at regional, national and international conferences.

1998-2006 **Survival Systems Training Ltd., Halifax, NS**

Senior Instructor, Offshore/Marine

- Trained over 10,000 individuals in water survival and underwater escape skills.
- Successfully delivered train-the-trainer Helicopter Underwater Escape programs to survival instructors from Holland, Brunei, Australia, Russia, Ireland and the United States.
- Involved in numerous research studies carried out for organizations such as Dalhousie University, Defence Research and Development Canada, Exxon Mobil, and the National Research Council Canada.
- Responsible for documentation, annual audit information, and maintaining a \$600,000 military loan of equipment.

1989-97 **Department of National Defence**

Aviation Technician

- Responsible for maintaining helicopter flight controls, engines, hydraulic systems, and life saving equipment.

- Shearwater Helicopter Rescue Diver responsible for rescue standby of Sea King Waterbird training and was an integral member of the ship's rescue dive team during two year posting aboard HMCS Iroquois.

SCHOLARLY PUBLICATIONS

Peer-reviewed journals:

Taber, M. J., Simoes Re, A., & Power, J. (in press). A preliminary ergonomic assessment of piloting a lifeboat in ice. *Safety Science*.

Taber, M. J. & McCabe, J. (2009). The effect of emergency breathing systems during helicopter underwater escape training for land force troops. *Safety Science*, 47(8), 1129-1138.

Brooks, C. J., MacDonald, C. V., Donati, L., & **Taber, M. J. (2008).** Civilian helicopter accidents into water: Analysis of 46 cases, 1979-2006. *Aviation, Space, and Environmental Medicine*, 79(10), 1-6.

Taber, M.J. & McCabe, J. (2007). An examination of survival rates based on external flotation devices: A helicopter ditching review from 1971 to 2005. *SAFE Journal* 35(1), 1-6.

Taber, M. J. & McCabe, J. (2006). Helicopter ditching: Time of crash and survivability. *SAFE Journal* 34(1), 5 -10.

Manuscripts submitted and under review:

Taber, M. J. & McCabe, J. (under revision). Effects of helicopter underwater escape and safety based exposure training on anxiety sensitivity ratings. *Aviation, Space, and Environmental Medicine*. (Submission number ASEM2713).

Manuscripts in preparation:

Taber, M. J. (in progress). Is the Super Puma safe: An examination of ditching survivability? In preparation for submission to: *International Journal of Occupational Safety and Ergonomics*.

Taber, N. M. & Taber, M. J. (in progress). Emergent learning in communities of practice: Collective meaning making in emergency response. In preparation for submission to: *Aviation, Space and Environmental Medicine*.

Taber, M. J., Dies, N., & Cheung, S. S. (in progress) Uncompensable Heat Stress and Cognition: The Effects of Thermal Strain during Offshore Oil and Gas Helicopter Transportation. In preparation for submission to: *Applied Ergonomics*.

Research projects in progress (manuscripts to be submitted to peer-reviewed journals upon completion):

- Does a Touch Screen Emergency Response Focus Board Enhance Situation Awareness for Offshore Installation Managers?

Refereed Conference Presentations:

Taber, M. J., Klein, R., & McCabe, J. (accepted). Type of emergency response focus board visual display affects allocation of attention and development of situation awareness. Paper to be presented at the *20th Annual Meeting of the Canadian Society of Brain, Behaviour, and Cognitive Science* in Halifax, NS, June 2010.

Taber, M. J., Baxter, R., & Kearsley, T. (2008). A preliminary ergonomic assessment of piloting a lifeboat in ice. *39th Annual Association of Canadian Ergonomists National Conference Proceedings*, Gatineau, Quebec.

Taber, M. J. (2007). Instructional task analysis of helicopter underwater escape training. Conference Proceedings and presentation at *2nd International Helicopter Safety Symposium*, Montreal.

Taber, M. J. (2007). The effect of emergency breathing systems during helicopter underwater escape training for the land force element of the standing contingency force. Presented at the *Atlantic Region: 9th Annual Conference and Annual General Meeting of the Association of Canadian Ergonomists*, Halifax, Nova Scotia.

Taber, M. J. & McCabe, J. (2006). Simulated helicopter underwater escapes: Anxiety sensitivity and human performance. Presented at the *Atlantic Region: 8th Annual Conference and Annual General Meeting of the Association of Canadian Ergonomists*, Moncton, New Brunswick.

Taber, M. J. & McCabe, J. (2006). The effects of exposure training on anxiety sensitivity ratings: An examination of helicopter underwater escape and safety based training courses. *37th Annual Association of Canadian Ergonomists National Conference Proceeding*, Banff, Alberta

Taber, M. J. & McCabe, J. (2005a). Helicopter ditching: Time of crash and survivability. Conference Proceedings and presentation at the *43rd SAFE Symposium*, Salt Lake City, Utah.

Taber, M.J. & McCabe, J. (2005b). An examination of survival rates based on external flotation devices: a helicopter ditching review from 1971 to 2005. Conference Proceedings and presentation at the *43rd SAFE Symposium*, Salt Lake City, Utah.

Taber, M. J. (2005c). Are survival rates related to incident times during a helicopter ditching? Conference proceedings and presentation at *3rd Annual Meeting at the Crossroads*, Dalhousie University, Halifax, Nova Scotia.

Taber, M. J. (2004). Analysis of helicopter ditchings. Conference proceedings and presentation at 2nd Annual Meeting at the Crossroads, Dalhousie University, Halifax, Nova Scotia.

Conference Posters:

Taber, M. J. (accepted). The visual presentation of emergency response information affects the development and maintenance of situation awareness. To be presented at the Offshore Energy Forum, Halifax, NS, May 2010.

Taber, M. J., Dies, N. F., McLeod, R., & Cheung, S. S. (2009). Underwater helicopter escape procedures not impaired by immersion suit heat stress. Presented at the Canadian Society for Psychomotor Learning and Sport Psychology Annual Conference, Toronto, Ontario.

Taber, M. J., Klein, R., McCabe, J., Fleming, M., Toms, E., & Pelot, R. (2008). Protecting against offshore catastrophes: Applying human factors to control room training and design. Presented at the Atlantic Canada Petroleum Show, St. John's Newfoundland and Labrador.

Keynote and Invited Presentations:

Taber, M. J. (2009). Usability testing with children. Presented at CBC Kids' Interactive workshop in Toronto, Ontario.

Taber, M. J. (2008). Improvements in offshore emergency response. Invited presentation at 3rd Nova Scotia Energy Forum, St. Francis Xavier University, Antigonish, Nova Scotia

Taber, M. J. (2006). Progression of research ideas. Keynote at 4th Annual Meeting at the Crossroads, Dalhousie University, Halifax, Nova Scotia.

Unpublished technical research reports:

Taber, M. J. *Instructional task analysis of helicopter underwater escape training in an AS332L Super Puma.* Unpublished technical document for Survival Systems Training Limited, 2007.

Taber, M. J. *Usability and online survival training: An assessment of web based recurrent basic training.* Unpublished technical document for Survival Systems Training Limited, 2007.

Taber, M. J. *Functional task analysis of helicopter underwater escape training for the land force element of the standing contingency force.* Unpublished technical document for Department of Nation Defence – 1 Canadian Air Division/Survival Systems Training Limited, 2006.

Taber, M. J. *Underwater escape: More than 1/3 of individuals require assistance three years after receiving Helicopter Underwater Escape Training.* Unpublished technical document for Survival Systems Training Limited, 2005.

RESEARCH GRANTS AND FUNDING

Funding Agency	Title	Amount Per Year	Years
Brock University	Department of Physical Education and Kinesiology	\$50,000	2010-12
Dalhousie University	Faculty of Graduate Studies Research Scholarship	\$3,000	2008-10
Dalhousie University	Interdisciplinary PhD Research Scholarship	\$15,000	2008-10
Social Sciences and Humanities Research Council of Canada (Co-applicant – removed for technical reasons)		\$80,000	2008-10
Natural Sciences and Engineering Council of Canada	Industrial Postgraduate Scholarship	\$21,000	2006-08
Dalhousie University	Health and Human Performance Interdisciplinary PhD Scholarship	\$1,029	2006

PROFESSIONAL COURSES INSTRUCTED (*from date indicated until August 2007*)

- 2003 Underwater Casualty Extraction Course (UCEC)
- 1998 Basis Survival Training (BST)
- 1998 Basic Survival Training Recurrent (BST/R)
- 1998 Offshore Survival Introduction (OSI)
- 1998 Offshore Helicopter Safety (OHS)
- 1998 Aircraft Ditching Course (ADC)
- 1998 Helicopter Underwater Escape Training (HUET)
- 1998 Marine Emergency Duties A1 (MED A1)
- 1998 Emergency Breathing Systems (EBS)

PROFESSIONAL AND ACADEMIC DEVELOPMENT**Training:**

- Facelab V and Gazetracker (eye tracking software) training (Dalhousie University) (2009)
- ATLAS.ti qualitative software training (Dalhousie University) (2008)
- Pilot Human Factors: Threat & Error Management Course – Helicopter Association International (2007)
- Aircraft Ditching/Emergency Breathing Systems (2006)
- Basic Survival Training (BST) - Survival Systems Training (2004)

Marine Emergency Duties A4 – Survival Systems Training (2004)
Marine Emergency Duties A1 – Survival Systems Training (2004)
First Responder – Canadian Red Cross (2004)
Casualty Extraction Workshop – Canadian Coast Guard (2003)
Helicopter Landing Officer (2003)
Basic Survival Training/Recurrent – Survival System Training (2001)
Fast Rescue Craft Coxswain – Survival Systems Training (2000)

Workshops Attended:

Asset Integrity Management (Petroleum Research Atlantic Canada) (2007)
Operational Liferaft Procedures Workshop (National Research Council of Canada) (2007)
Casualty Evacuation Training Workshop (Canadian Coast Guard) (2005)
Human Performance at Sea (Memorial University) (2004)

Conferences Attended:

Canadian Society for Psychomotor Learning and Sport Psychology Annual Conference, (Toronto, Ontario) (2009)
Lake Ontario Visionary Establishment Annual Conference (Niagara Falls) (2009)
39th Association of Canadian Ergonomists National Conference (Gatineau) (2008)
CSBBCS 18th Annual Meeting (London, ON) (2008)
3rd Nova Scotia Energy Forum (Antigonish) (2008)
38th Association of Canadian Ergonomists National Conference (Toronto) (2007)
International Helicopter Safety Symposium (Montreal) (2007)
HeliExpo (Helicopter Association International) (Orlando) (2007)
9th Association of Canadian Ergonomists Atlantic AGM and Conference (Halifax) (2007)
37th Association of Canadian Ergonomists National Conference (Banff) (2006)
8th Association of Canadian Ergonomists Atlantic AGM and Conference (Moncton) (2006)
43rd SAFE Association (Salt Lake City Utah) (2006)
4th Annual Meeting at the Crossroads (Halifax) (2005)
Systems Safety Society Aviation Workshop (Ottawa) (2005)
3rd Annual Meeting at the Crossroads (Halifax) (2004)
2nd Annual Meeting at the Crossroads (Halifax) (2003)
World Drowning Congress Meeting (Amsterdam) (2001)

SERVICE - SCHOLARLY COMMUNITY

- Journal manuscript peer-reviewer- *Aviation, Space, and Environmental Medicine*
- Member of 3th Annual Meeting at the Crossroads Conference organizing committee (2005)
 - Reviewer of paper proposals

MEMBERSHIP IN PROFESSIONAL AND ACADEMIC SOCIETIES

2008-present Canadian Society for Brain, Behaviour, and Cognitive Science
2007-present American Helicopter Society
2005-present Association of Canadian Ergonomists
2005-present Helicopter Association International

2005-present Safe Association

VOLUNTEER WORK

2007-present Pelham Panthers Basketball Coach

2007-2008 Power Glen Public School Classroom Volunteer