



HUMAN FACTOR PERSPECTIVES ON SAFETY CONFERENCE

welcomes national and international speakers

*November 30 at the SFU Segal Graduate School of Business,
Vancouver, BC 08:30 – 4:30*

Session will be opened by Roberta Ellis, VP Policy, Investigations & Review, WorkSafeBC

Speakers for the day will cover broad principles of human factors and system safety to highlight the transferability and applicability to many occupational domains

Professor Jeff Caird, PhD

“Comparative Safety: What Can Patient and Traffic Safety Learn from One Another?”

Carla MacLean, PhD candidate

“People Evidence in Industrial Investigation”

Gerry Binnema, MSc

“Drifting to the Edge: How human factors drive organizational behaviour.”

James Saveland, PhD

“Human Performance in Complex High-Risk Systems: Adaptation and Resilience Environments such as Wildland Firefighting”

Allison Lamsdale, MASc

“Current human factor perspectives in healthcare”

Ivan Pupulidy, PhD candidate

“The Effect of Accident Investigation on Organizational Culture”

Bill Rankin, PhD

“Event Investigation and the Just Culture”

Dr. D. Douglas Cochrane MD

“B.C. Patient Safety & Quality Council - Mandate and Plan”

Limited space available – please register early.

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- CIH, ROH, CRSP, and BCRSP certification points have been requested
- Only 20 available spaces for students

PROFESSIONAL PROFILES

Roberta Ellis

Roberta Ellis is Vice President Policy, Investigations, Review and Corporate Communications & Planning for WorkSafeBC. Roberta is a former director of the Canadian Institute for Health Information. She has previously served as Chair of the Manitoba Advisory Council on the Status of Women, and was appointed Civil Service Commissioner and Pay Equity Commissioner, leading the implementation of Canada's first proactive pay equity legislation. Ms. Ellis has also served as Deputy Minister of Manitoba Labour, the President of the Premier's Economic Innovation and Technology Council, Associate Deputy Minister of Health with responsibility for labour contracts and human resource matters. Ms. Ellis holds an MA from Edinburgh University, Edinburgh, Scotland.

Professor Jeff Caird, PhD

Jeff Caird is a Professor in the Department of Psychology and an Adjunct Professor in the Faculty of Kinesiology and the Department of Anesthesia at the University of Calgary. In 1994, he received his Ph.D. in human factors from the University of Minnesota, where he is still an Affiliated Faculty Member of the Center for Cognitive Science and Mechanical Engineering. He is the Director of the Cognitive Ergonomics Research Laboratory and the Canadian Foundation for Innovation (CFI) funded, University of Calgary Driving Simulator (UCDS). He is currently the co-leader of the Teen and Novice Driver Network that is part of the AUTO21 Network of Centres of Excellence (NCE). He has co-edited a number of books on human-machine systems, including the forthcoming Handbook of Driving Simulation in Engineering, Psychology and Medicine. He was awarded a Killam fellowship to study traffic safety and the Faculty of Social Sciences Distinguished Researcher Award. He is a member of several committees of the National Academy of Sciences, Transportation Research Board on User Characteristics and Simulation and Modeling. His primary areas of research are in transportation and healthcare human factors.

Carla MacLean, PhD candidate

Carla MacLean has spent the last 8 years conducting research that addresses human factors issues in industrial accident investigations. Specifically, she addresses ways to make the industrial investigation more accurate and thus, effective. Her research considers factors that compromise eyewitness memory for industrial incidents, effective questioning methodologies, and issues relating to investigator decision making. Carla is an instructor at the University of Victoria and is in the process of completing her PhD in social cognition.

Gerry Binnema, MSc

Gerry began his aviation career as an Aircraft Maintenance Engineer after completing flying training at Trinity Western University, in Langley, BC, and AME training at Centennial College, in Scarborough, Ontario. Since then he has worked in a variety of sectors of the aviation industry both as a pilot and an AME. His resume includes overseas work as a pilot/AME with a mission organization, a charter pilot, a flight instructor, an aircraft accident investigator and a Safety Officer with Transport Canada.

Gerry has a Masters Degree in Aerospace Science, System Safety through Embry Riddle Aeronautical University. He also studied human factors with Dr. Dekker at Lund University in Sweden. Gerry works as a consultant, providing training and advice in the areas of human factors and safety management.

James Saveland, PhD

Jim has worked for the U.S. Forest Service for 31 years, working on the National Forests for 11 years and in Research & Development for 20 years. He started out on an engine/fuels crew out of Elk City, Idaho. He has been a smokejumper out of Grangeville, Idaho and Redmond, Oregon; a District Fire Management Officer on the Moose Creek District, Nez Perce National Forest; a project leader at the Southern Fire Laboratory in Macon, Georgia; worked in the Washington Office where he co-led the development of the Joint Fire Science Program; was an Assistant Director for Research with responsibility for research units in northern Idaho and Montana including the Missoula Fire Lab at the Rocky Mountain Research Station; and is now standing up a Research and Development program focused on human factors and risk management. He is a member of the national Fire Line Officers Team, and the current Chair of the Forest Service National Safety & Health Council. In the past he has been a fire behavior analyst, division group supervisor, and complex prescribed burn boss. His formal education, in addition to graduate degrees in forest resources specializing in fire ecology, fire management, and cognitive science at the University of Idaho where he was selected as "Outstanding Graduate Student" in the College of Natural Resources; includes: an undergraduate degree in mathematics from Auburn University at Montgomery; time at the USAF Academy where he was on a national championship parachute team and went through Survival, Evasion, Resistance, Escape (SERE) training; graduate work in computer science at Georgia Tech; executive development courses at MIT Sloan School of Management, Notre Dame's Mendoza College of Business, and the Federal Executive Institute, and Mindfulness-Based Stress Reduction (MBSR) teacher training at the University of Massachusetts Medical School. Jim is a member of the American Psychological Association, Division 47 Exercise & Sport Psychology, and Division 56 Trauma Psychology; the Association for Psychological Science; the Association for Applied Sport Psychology; the Human Factors and Ergonomics Society; the Academy of Management; the Society for Judgment & Decision

Making; the International Association of Wildland Fire; and the American College of Sports Medicine. He is also a USA Triathlon level 1 certified coach. He practices the martial arts of Aikido (rank of 1st degree black belt) and Tai Chi Chuan. In the community, he has been a PTA officer, volunteered for the Nature Conservancy, and active in youth soccer as a coach and referee for several years. Jim's current professional interests include high performance teams in hazardous environments, culture change, organizing for high reliability and learning, leadership development, dialogue, firefighter safety, and the development of mindfulness-based awareness practices.

Allison Lamsdale, MASc

Allison is a Human Factors specialist with strong experience in applying engineering and psychology principles on a variety of large and small projects relating to healthcare. She currently works at Vancouver Coastal Health as a Human Factors Specialist in Quality and Patient Safety, and independently consults on Human Factors principles to a variety of industries. Committed to safety and quality of care, Allison's goal and motivation is to introduce and incorporate human factors engineering principles into industry in British Columbia. Her research interests include the reduction of adverse events, the usability of medical devices, workflow process improvement, analysis of complex system level and task requirements, and training design.

While completing her Bachelor of Science in Psychology from the University of Calgary, Allison provided research support to the Cognitive Ergonomics Research Laboratory (CERL). While at CERL, she worked on projects with transportation safety for Transport Canada and the usability of smart infusion pumps through the Calgary Health Region. She received her Master of Applied Science and Engineering from the University of Toronto in Industrial Engineering (Human Factors) and completed her thesis work at the University Health Network in the Nocturnal Home Hemodialysis Clinic. During this time, she conducted detailed analyses of system design and developed an interactive review tool for enhancing the training of nocturnal hemodialysis patients. Allison also provided Human Factors support to various projects at Human Factors North, Inc. Allison moved to Seattle, WA, in February 2007 where she applied human factors principles to the development of portable ultrasound devices at SonoSite, Inc.

Allison is a member of the Human Factors and Ergonomics Society (HFES), the Human Factors Interest Group (HFIG), and the Association for Computing Machinery (ACM). She also enjoys teaching and has lectured on human factors at the University of Toronto and the Ontario College of Art and Design.

Ivan Pupulidy, PhD candidate

Ivan is the Human Performance Specialist for the US Forest Service, a position earned through a multi-faceted career path. After receiving a Geology B.S. Degree in 1984, Ivan worked as a mine geologist and exploration geophysicist (for companies such as Newmont Exploration, Ltd. and Quintana Minerals Corp.). With a desire to go from the earth to the sky, Ivan joined the Coast Guard and progressed from Officer Candidate School to Flight School, where he was winged as a Naval Aviator in 1987.

Flying HU-25 Falcon Fan-Jets at Coast Guard Air Station Corpus Christi, Texas, Ivan engaged in rescue and law enforcement missions until the Coast Guard selected him for a very competitive Maintenance Officer and Pilot position. Assigned to the HC-130 Hercules aircraft (at Coast Guard Air Station Sacramento) Ivan flew one of the most challenging humanitarian missions in the military, often taking him directly into the eye of a hurricane, or low over stormy water to rescue ships in distress.

Following a successful ten year career with the Coast Guard, Ivan traded water for fire and became a Lead Plane Pilot for the US Forest Service. Flying low level over forest fires across the United States, Ivan was led to develop safety programs that would impact all levels of his organization. Ivan also remained active in the US Air Force Reserves and has flown the Hercules in combat missions in Iraq and Afghanistan and humanitarian support missions throughout central Africa.

Ivan completed a Master's of Science Degree in Human Factors and Systems Safety at Lund University, Sweden and is currently working on a PhD in System Safety.

William L. (Bill) Rankin, PhD Technical Fellow

Bill Rankin is a Boeing Technical Fellow and Lead of the Maintenance Human Factors Group in Boeing Commercial Aviation Services. He received his Ph.D. in human performance and cognitive psychology in 1976 from Washington State University. From 1976 to 1986 he worked for the Battelle Seattle Research Centers carrying out human factors engineering work in the nuclear, chemical processing, and liquefied natural gas industries. Bill joined Boeing in 1986 and moved to Boeing Commercial Aviation Services in 1995. His present responsibilities include the development of maintenance Human Factors processes and training relevant to Boeing customer airlines, including the Maintenance Error Decision Aid (MEDA) process, the Ramp Error Decision Aid (REDA) process, and a Safety Management System. He has also developed a two-day Maintenance Human Factors training seminar that meets the requirements of the European Aviation Safety Agency. In 2000, Bill received the International Federation of Airworthiness' Whittle Safety Award for the MEDA process.

Dr. D. Douglas Cochrane MD

Dr. Cochrane is the Chair and Provincial Patient Safety & Quality Officer of the B.C. Patient Safety & Quality Council, and the Chair of the Canadian Patient Safety Institute.

Dr. Cochrane is a Professor at the University of British Columbia in Neurosurgery, a certificant of the American Board of Pediatric Neurological Surgery, and a Fellow of American Academy of Pediatrics.

Dr. Cochrane obtained his medical degree from the University of Toronto, graduating in 1975, followed by training in Neurosurgery at the University of Calgary. A pediatric neurosurgery fellowship at the Hospital for Sick Children, University of Toronto, was completed in 1981.

Following his training, Dr. Cochrane was appointed as neurosurgeon at the Calgary General Hospital, Foothills Provincial Hospital, Tom Baker Cancer Center and Alberta Children's Hospital, and served these facilities until 1986. During this time, he held an appointment as Assistant Professor of Neurosciences, University of Calgary.

In 1986, Dr. Cochrane was appointed as a staff neurosurgeon, at British Columbia's Children's Hospital and Sunny Hill Health Centre for Children. He served as the Head of the Section of Surgery and Surgeon-in-Chief, British Columbia's Children's Hospital and Children's and Women's Health Centre of British Columbia 1991-2001, Vice President of Medicine for Children's and Women's Health Centre of British Columbia 2001-2003, and Vice President of Medical Affairs, Quality, Safety & Risk Management for the Provincial Health Services Authority in Vancouver 2003-2008.

Dr. Cochrane has interests in the following areas:

1. Patient safety policy and accountability mechanisms, risk assessment, evaluation and mitigation.
2. Health care systems development and change focusing on the provider skills through the analysis of quality and safety during surgical care.
3. Clinical information system development and implementation.

