



Diverse interventions, diverse populations:
What are the issues and challenges facing ergonomics?

**45th Annual Conference
of the Association of
Canadian Ergonomists**

**October 7- 9, 2014
University of Quebec at
Montreal, Montreal, QC
www.ace-ergocanada.ca**

**Workshops
October 6, 2014**

**Conference
October 7-9, 2014**

**Exhibitor Showcase
October 7-8, 2014**

FINAL PROGRAM



Continuing Education Credits have
been applied for, or are eligible for:

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**Association of Canadian Ergonomists
Association Canadienne d'Ergonomie**

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Association of Canadian Ergonomists
Association Canadienne d'Ergonomie

A Word of Welcome from the Chair

For the 45th Association of Canadian Ergonomists conference, we are very pleased to welcome you to Montréal, more specifically to the Université du Québec à Montréal (UQAM), at the very heart of this multicultural city. We have chosen diversity as the theme, to highlight the mutual benefit of sharing our different experiences. The conference title: ***Diverse interventions, diverse populations: What are the issues and challenges facing ergonomics?*** invites attendees to reflect on the evolution of the working world and the different intervention contexts ergonomists work in.

It is not by chance that the 45th annual conference is being held in a university. This setting provides an opportunity to stress the importance of ergonomic training. It is also in our students' interest to be aware of the many challenges faced in ergonomic practice. UQAM's faculty of science is proud to offer a Master's program in ergonomics for 20 years now. Classes attended during the week of October 6, 2014 will be the talks given by our many speakers. There is no doubt that this week will be very enriching, due to the acquisition of new knowledge, the comparison of various practices and tools, without forgetting the opportunity to interact with big names in the field of ergonomics.

Montréal is also home to a convergence of different approaches. Ergonomists from several continents are travelling to join us, namely from North America, South America, Africa and Europe. We bid them a warm welcome and would like to point out the Association of Canadian Ergonomists conference's sizeable contribution to knowledge sharing and cultural exchanges, as it is one of the few conferences to offer simultaneous interpretation in French and English.

Many thanks to everyone on the organizing committee, the science committee and the people in charge of organizing the numerous symposiums, for their invaluable dedication.

We hope that this 45th Association of Canadian Ergonomists conference brings wonderful encounters and new collaborations, for the development of ergonomics increasingly rooted in practice.

Nicole Vézina, Conference Chair

And her close collaborators: Élise Ledoux, Bénédicte Calvet and Maud Gonella

Organizing Committee

Nicole Vézina
Conference Chair

Marc Andre Brazeau
Sponsorship and Exhibitor Coordinator

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Organizing Committee

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About ACE



**Association of Canadian Ergonomists
Association Canadienne d’Ergonomie**

Founded in 1968, the **Association of Canadian Ergonomists/ l’Association Canadienne d’Ergonomie (ACE)** is an association of persons who have human factors/ergonomics interests, whether they be research workers seeking to expand knowledge in the field, practitioners endeavouring to apply existing knowledge, or members of the public and clients in need of human factors/ergonomics expertise and services. Membership is open to those who will benefit from the judicious application of human factors and ergonomic knowledge, either as individuals or as representatives of organizations.

Find out more about ACE at www.ace-ergocanada.ca

Keynote Speaker - Tuesday, October 7, 2014

Plenary session 1: Diversifying Areas of Intervention Barbara Silverstein, Yves Roquelaure, François Daniellou



Barbara Silverstein, Research Director for Washington State's Department of Labor and Industries Safety and Health Assessment and Research for Prevention Program (SHARP), USA

Why do workplaces doing the "same thing" have very different work-related musculoskeletal disorders (WMSDs) workers compensation injury rates?

The Washington State workers compensation (WC) system data allow determination of injury and illness rates for specific work-related injuries and illnesses in a well-defined population. We are using this data to identify magnitude, distribution and cost by industry sector and subsector and size. Using a prevention index (PI) to rank order subsectors and then employers within the subsector, we can identify "similar companies doing the same thing" but having very different incidence rates. We then send ergonomists to companies with high and low rates in the same subsector and size to try to identify reasons for the differences in rates, while they are "blinded" as to whether they are at a high or low ranked company. We are then testing a number of "checklists" of risk factors in common use to see which correlate well with the WMSD. We are also conducting injured worker interviews, as well as labor and management interviews regarding recognition and ways of addressing WMSD risks and hazards. Reports to the companies describe potential risks, hazards and potential hazard reduction suggestions. Findings from the different aspects of this study will be discussed.

Dr. Barbara Silverstein is the Research Director for Washington State's Department of Labor and Industries Safety and Health Assessment and Research for Prevention Program (SHARP). She is also Affiliate Professor at the University of Washington's School of Public Health Department of Environmental and Occupational Health Sciences. Dr. Silverstein's primary research areas have been in occupational epidemiology and ergonomics.

She has been studying work-related musculoskeletal disorders (WMSDs) since her PhD on WMSDs including carpal tunnel syndrome published in 1985. She has been a principal investigator on a prospective study of carpal tunnel syndrome, epicondylitis and rotator cuff tendinitis conducted in multiple industries in Washington State. Additionally, Dr Silverstein's analyses and publication of papers on the use of workers compensation data to estimate the magnitude, lost work time and cost of musculoskeletal disorders including carpal tunnel syndrome, epicondylitis, rotator cuff tendinitis and sciatica have been used by many researchers. She is currently the principle investigator on a study of work-related musculoskeletal disorders in 7 industrial sectors in Washington State.

Keynote Speaker - Tuesday, October 7, 2014

Plenary session 1: Diversifying Areas of Intervention Barbara Silverstein, Yves Roquelaure, François Daniellou



Yves Roquelaure, occupational physician and ergonomist, Director of the Laboratoire d'ergonomie et d'épidémiologie en santé au travail (LEEST) in Angers, France

Integrated Prevention of Musculoskeletal Disorders: Which Joints?

The complexity of MSD mechanisms and the diversity of the theoretical models used by preventionists explain the difficulty in incorporating the scientific knowledge acquired in the last 20 or so years in prevention interventions in the workplace. This often leads to a lack of interaction between the "macro" and "micro" levels of the approach to MSDs and the need for greater dialogue between the ergonomic, biomechanical and epidemiological approaches in creating knowledge and taking preventive action. Analyzing the activity performed by the workers can play an important integrative role by connecting scattered knowledge (biomechanical, psychosocial, organizational, etc.) on workers in actual work situations and thus help preventionists and stakeholders integrate the different MSD prevention levels. Examples of integrated MSD prevention will be presented and discussed.

Yves Roquelaure is an occupational physician and an ergonomist. He has taught occupational medicine and ergonomics at the Angers faculty of medicine (France) since 2006 and is director of the laboratory of ergonomics and epidemiology in work and health (LEEST). He has been a member of the International Commission on Occupational Health (ICOH-CIST) since 2012 and chaired the ICOH-CIST's Musculoskeletal Disorders Scientific Committee from 2010 to 2013. Mr. Roquelaure has worked on musculoskeletal disorders (MSD) affecting the limbs and spinal column since 1990, taking various combined approaches (clinical, ergonomic, epidemiological, biomechanical). He has published over one hundred articles in scientific journals on this subject. Since 2000, he has coordinated the MSD epidemiological monitoring network formed by the Institut de veille sanitaire in the Pays de la Loire region. He is currently focusing on MSD prevention, namely coordinating health paths and interventions in the workplace. In 2013, he chaired the Société Française de Médecine du Travail's working group in charge of recommending good practices for the medico-professional monitoring of workers exposed to load handling.

Conference Proceedings

All full conference and full day conference delegates will receive one complimentary copy of the conference proceedings. Individuals who are unable to attend the conference or are attending only the workshops or for a half day of the conference, or delegates wishing an additional copy, may purchase the proceedings for a fee of \$40.00 per copy. Purchase can be made via the attached registration form or on-line registration.

Keynote Speaker - Tuesday, October 7, 2014

Plenary session 1: Diversifying Areas of Intervention Barbara Silverstein, Yves Roquelaure, François Daniellou



François Daniellou, Director of the Ergonomics in Complex Systems Department at the Institut Polytechnique de Bordeaux's École Nationale Supérieure de Cognitique, France

By what Mechanisms are Ergonomists Seeking to Change Work Situations?

To advance the professional performance of ergonomists, it is important to identify the mechanisms by which they influence work situations:

- By incorporating scientific knowledge about humans at work? This approach, while widely claimed around the world, seems very out of synch with the research on ergonomic practice.
- By changing how the company's decision-makers represent the work situations? The image of ergonomists as "conveyors of the reality of the situation" is particularly prevalent in activity-based ergonomics.
- By staggering the work negotiations?
- By modifying the very decision-making structure, the logic used, people concerned and sectors taken into consideration?

The training content depends on the answers to these questions: what skills must the ergonomist possess, as a person who puts his/her knowledge, subjectivity, strategic skills, etc. into action?

François Daniellou has basic training as a mechanical engineer. He obtained a Doctorate of Ergonomics from the Conservatoire des arts et métiers, Paris, in 1985, and a Habilitation à diriger des recherches (authorization to direct research) in 1992. He has been a professor of ergonomics in Bordeaux since 1993 and now directs the ergonomics in complex systems department at the Institut polytechnique de Bordeaux's École nationale supérieure de cognitique. He is currently conducting personal research on connections between work organization and health as well as on the human and organizational factors affecting industrial safety in high-risk industries. He presides over the French nuclear safety authority's steering committee on socio-organizational and human factors' "subcontracting" group. He is especially interested in epistemological matters concerning ergonomic intervention, on which he coordinated the book, "L'ergonomie en quête de ses principes", published by Octarès.

Keynote Speakers - Wednesday, October 8, 2014

Plenary session 2: Diversity of Workplace Populations Florence Chappert, Serge Volkoff & Barbara Neis



Florence Chappert, leader of the gender, health and working conditions project for the Agence nationale pour l'amélioration des conditions de travail (ANACT), France

From the Differential Impact on Health to Work Situations Differentiated by Gender: the Data, Hypotheses, Resistance and Levers for Ergonomic Intervention

This plenary session will present the knowledge and research issues studied in France based on the observation of differences in the evolution, by gender, of several indicators of occupational health claims. The strong hypothesis developed and tested by the Agence Nationale pour l'Amélioration des Conditions de Travail (ANACT, national agency for the improvement of working conditions) is that certain occupational health problems resulting in absenteeism, employee turnover, stress and occupational wear are dealt with more appropriately when the ergonomic intervention has taken into consideration differentiated work situations for men and women based on four hypothesis concerning co-work, lack of visible risks or hardness, path followed and work time. Despite lingering strong resistance to "gender", these elements now help advance occupational health and safety, professional equality, hardness and retirement regulations and practices in France.

Florence Chappert is in charge of the gender, health and working conditions project at France's national agency for the improvement of working conditions (ANACT), a public institution governed by the French labour ministry, which she joined in 2006. Her mission involves teaching the ANACT network's team to "see through the eyes of gender" when making diagnoses and recommendations about working conditions, on the one hand, and integrating working condition and health aspects in the steps toward professional equality, on the other. Florence Chappert has 17 years of experience providing businesses and administrations in Morocco with human resources management advice and training, after working as an engineer in a Rhône-Poulenc chemical plant.



ACE 2015 Annual Conference
Kitchener-Waterloo - Ontario - October 6-8, 2015

Keynote Speakers - Wednesday, October 8, 2014

Plenary session 2: Diversity of Workplace Populations Florence Chappert, Serge Volkoff & Barbara Neis



Serge Volkoff, statistician and ergonomist, former director of the Centre de Recherches sur l'Expérience, l'Âge et les Populations au Travail (CREAPT), France

How "are" they or How "do" they do it? Ages and Work Activities

Aging is marked by transformations in individuals during their "active life". These transformations are generally continuous and gradual, involving gains and losses, in interaction with the working environment. They make the work easier or harder and have negative consequences (fatigue, reduced performance, downward mobility, etc.) or positive ones (effective re-engineering of the work method, upward mobility, etc.). With age, workers compromise between production objectives, their own skills and the desire to preserve their health. They revise these compromises based on the effects of aging, among other factors. Several aspects of "experience" are combined in these strategies: experience with the task itself, personal experience and experience "over others", on support points in the workforce. The effects of this experience can be observed in how the individual and group regulate the activity (anticipation, verification, cooperation, etc.), provided that the work conditions and organization render these regulations possible at any age.

Serge Volkoff is a statistician and ergonomist, specializing in working conditions and aging in the workplace. Formerly in charge of studies and statistics on working conditions in the French labour ministry, he directed, until 2012, the centre for research on experience, age and work populations (CREAPT), a scientific interest group that includes public organizations, businesses and universities. He was appointed research director of the Centre d'Etudes de l'Emploi in 2001 and has served on the Conseil d'Orientation des Retraites in France since this organization's creation in 2000. He authored or co-authored the following books: "Le travail au fil de l'âge" (Octarès, 1995), "Age, travail, santé" (éditions Inserm, 1996), "Efficaces à tout âge ?" (Dossiers du CEE, 2000), "Les conditions de travail" (La Découverte, 2007), and numerous articles on these topics.

CCPE Certification Application Question & Answer session

A special question and answer session on the professional certification (CCPE) application process will be held during lunch on Wednesday October 8, 2014 (12:15 pm to 1:30 pm). A separate table will be available for applicants to meet and have lunch with one or more CCCPE board members.

This session will allow potential applicants to ask questions about the specifics of the process and requirements, to assist them in completing their applications. Participants are encouraged to preview the application information available through the www.cccpe.ca web site in advance and to submit their questions ahead of time to info@cccpe.ca.

Cost: No Charge

Facilitators: CCCPE Board Members

Keynote Speaker - Wednesday, October 8, 2014

Plenary session 2: Diversity of Workplace Populations Florence Chappert, Serge Volkoff & Barbara Neis



Barbara Neis, Co-Director of the SafetyNet Centre for Occupational Health and Safety Research, Memorial University, Canada

Ergonomics and Employment-Related Geographical Mobility in Canada

The On the Move Partnership is studying employment-related geographical mobility in the Canadian context. Employment-related geographical mobility is mobility to, from and within employment. The spectrum of employment-related geographical mobility ranges from working at home and in a single location through extended daily commuting, to more prolonged absences in distant regions, provinces and countries. It also includes and to some degree is associated with a spectrum of mobility within work, as with employment in transient workplaces (such as work camps), multiple workplaces (as with homecare), and mobile workplaces (as with employment driving taxis, trucking, in the airline industry, shipping and the cruise line industry). This presentation will introduce the On the Move Partnership and the concept of employment-related geographical mobility. Drawing on existing research and preliminary findings from research done through the Partnership, it will identify some of the ways employment-related geographical mobility is influencing who is at risk of work-related injury and illnesses and the types of injuries and illnesses they experience. It will also discuss the importance of taking employment-related geographical mobility into account in assessing opportunities for and the design of ergonomic interventions intended to reduce exposures and improve opportunities for return to work.

Barbara Neis (Ph.D.) is a University Research Professor in the Department of Sociology and Senior Research Associated in the SafetyNet Centre for Occupational Health and Safety Research at Memorial University. Professor Neis is also a Fellow of the Royal Society of Canada and President (2012) of the Canadian Association for Research on Work and Health. She was a Trudeau Foundation Fellow between 2006 and 2009. Professor Neis received her Ph.D. in Sociology from the University of Toronto in 1988. Her research focuses broadly on interactions between work, environment, health and communities in rural and remote contexts. She has researched many aspects of the Newfoundland and Labrador fisheries including gender and fisheries, occupational asthma to snow crab, participatory ergonomics, and fishing vessel safety. Her current research responsibilities include acting as Project Director on a 7-year Partnership grant from SSHRC entitled On the Move: Employment-Related Geographical Mobility in the Canadian Context, co-investigator, theme co-lead and member of the Research Management Committee of the Marine, Environmental, Observation, Prediction and Response Network of Centres of Excellence, and co-chair of the Newfoundland node of the SSHRC-funded Centre for Research on Work Disability Policy.

Schedule at a Glance (subject to change)

CONFERENCE SCHEDULE – October 7, 2014

Welcome (hot beverages & refreshments), Registration and Exhibitor Showcase (Salle Polyvalente (SH-4800))

Welcoming Address - Opening of the 45th ACE Conference (Amphithéâtre SH-2800)

Luc-Alain Giraldeau: Doyen de la Faculté des sciences de l'UQAM - Yves Maufette: Vice-recteur | Université du Québec à Montréal

Plenary Session 1- Diversifying Areas of Intervention (Amphithéâtre SH-2800)

Barbara Silverstein, Yves Roquelaure and François Daniellou

Exhibitors' 1-Minute Presentation (Amphithéâtre SH-2800)

Break (Salle Polyvalente SH-4800)

Meeting: 11:15-1:15

- Plaza-Ambassadeur A)

Buffet lunch & Exhibitor Showcase (Plaza-A)

Issues: Young Ergonomists: Transition from Training to Work, Diversity of Workplaces and Employment Prospects (Plaza A)

Workstation Design
(Plaza B)

Work activity in emergency response
(Plaza C)

BREAK (Salle Polyvalente (SH-4800))

Issues: Young Ergonomists: Transition from Training to Work, Diversity of Workplaces and Employment Prospects (Plaza A)

Diversity of the Manual Handling Workforce
(Plaza B)

Methods and Tools
(Plaza C)

Exhibitor's Reception - (Salle Polyvalente SH-4800)

CONFERENCE SCHEDULE – October 8, 2014

Welcome, Registration and Exhibitor Showcase (Salle Polyvalente SH-4800)

Plenary Session 2 - Diversity of Workplace Populations (Amphithéâtre (SH-2800))

Barbara Neis, Serge Volkoff and Florence Chappert

BREAK (Salle Polyvalente SH 4800)

Issues: Seasonal Work: Challenges and Issues for Ergonomic Monitoring and Injury Prevention and OHS (Plaza A)

Intervening in MSD prevention
(Plaza B)

Ergonomic Practices in Africa : the Case of Maghreb Countries
(Plaza C)

Lunch (La Plaza)

Issues: The Ergonomist's Role and Recognition of Musculoskeletal Injuries for Compensation Purposes (Plaza A)

Stakeholders participation and mobilization
(Plaza B)

Design
(Plaza C)

BREAK (Salle Polyvalente SH 4800)

Issues: Diversity of Interventions (Plaza A)

Mobilizing the Company: A Little Known Issue in Ergonomic Interventions and Occupational Health (Plaza B)

Contribution of ergonomics in the design of production systems
(Plaza C)

Cocktail party to launch the book "Ergonomic intervention" & celebrate PISTES magazine's 15th anniversary (Salle Polyvalente SH-4800)

CONFERENCE SCHEDULE – October 9, 2014

Welcome and Registration (Salle Polyvalente (SH-4800))

Plenary Session 3 - Diversity of Intervention Contexts (Amphithéâtre SH-2800)

Judy Village and Geneviève Baril-Gingras

BREAK (Salle Polyvalente SH 4800)

Issues: Automation and ergonomics of interfaces (Plaza A)

A Person's Place in the Organization of Work: Applying Quebec's OHS Right for Ergonomic Interventions that Favour the Health of Female Workers (Plaza B)

Activity of Caring for People
(Plaza C)

Buffet lunch (La Plaza)

Issues: The Highs and Lows of Office Work... Standards that Need Rethinking! (Plaza A)

Neuromuscular Fatigue at Work: What is it and Why Should We Care?
(Plaza B)

Diversity of Interventions
(Plaza C)

Closing of ACE 2014: Closing Address, Student Awards and Surprise Activities (Salle Polyvalente SH 4800)

Keynote Speakers - Thursday, October 9, 2014

Plenary session 3: Diversity of Practices Geneviève Baril-Gingras, Judy Village & panel



Geneviève Baril-Gingras, professor at Université Laval, Canada

From Public Policy to the Work Activity: How Context Defines Operational Leeway in Ergonomics

As is the case for any worker, an ergonomist's work activity is the result of the coming together of his/her characteristics (training, experience, strategies) with the task and context. The context is two-pronged: the ergonomist as worker (consultant, inspector, ergonomist for a company, public health organization, union or joint association, etc.) and the workplace in which the ergonomist is acting, the labour market and all of the public labour and employment policies. What operational leeway does the ergonomist have? How does the evolution of the work and the production's organization, the types of employment and public policies structure this leeway? This presentation examines the effects of the underlying trends of work intensification and extensification, job precariousness and the various ways of externalizing the work's negative effects on health. What levers can ergonomists use? How can they, individually and as a group, gain greater freedom and capacity to act on the relation between work and health?

Geneviève Baril-Gingras (Ph.D. 2003 U. Laval) is a full professor in Université Laval's department of industrial relations. She is an ergonomist (M.Sc. Biological Sciences, UQAM 1992) and has been a prevention advisor for about 10 years. For her thesis, she investigated the conditions and process leading to changes supporting prevention in external interventions.

She has since examined the implementation of occupational health and safety (OHS) management systems. Today, she conducts research on public policies and union action in the field of OHS. In 2010, she produced, with 12 other researchers, a memoir on the reform of Quebec's prevention in OHS plan, entitled "Organiser la prévention de manière systématique, dans tous les lieux de travail, la redynamiser et prendre en compte les changements du travail et de l'emploi" (organizing prevention systematically, in every workplace, reenergizing it and taking work and job changes into consideration). She directed, with Sylvie Montreuil and Pierre-Sébastien Fournier, the publication of a book entitled "L'intervention en santé et en sécurité du travail – pour agir en prévention dans les milieux de travail" (2013).

Keynote Speakers - Thursday, October 9, 2014

Plenary session 3: Diversity of Practices Geneviève Baril-Gingras, Judy Village & panel



Judy Village, School of Mechanical and Industrial Engineering, Ryerson University, Canada

How to integrate human factors into production design processes: A grounded theory based on a longitudinal case study at BlackBerry Ltd

Ergonomic interventions during design of new production systems can prevent health and production problems, but both theory and practice in ergonomics lack an understanding of “how” best to do this. This unique action-research collaboration between researchers at Ryerson University and engineers and ergonomists at BlackBerry Ltd was a platform for making sustainable change in the organization, while researching and developing a new theory about change. Effective change in this intervention started with the Ergonomist changing their perspective to fit into the culture, norms, language and tools of the engineering environment. When engineering design tools were adapted with ergonomic targets, management held engineers accountable for these because it was seen as a means to improve business performance. Senior directors reported that the integration of ergonomics into the design process improved design of subsequent assembly lines, and made it easier for workers.

Dr. Judy Village recently completed her PhD in Industrial Engineering at Ryerson University. With 25 years of research and practice experience in ergonomics, Dr. Village's dissertation involved collaborating for three years with engineers and ergonomists at BlackBerry Ltd to find ways to integrate human factors into early design of production assembly systems. Dr. Village is a Certified Ergonomist in both the US and Canada, and since 1993 has been an Adjunct Professor in the School of Population and Public Health at UBC, teaching a masters course in ergonomics and supervising graduate students. She has been awarded numerous grants and competitive contracts for ergonomics research on reduction of musculoskeletal disorders in a wide range of sectors and application, and publishes in scientific journals and conference proceedings internationally.



Ergonomics Canada magazine

Watch for issue 5 of *Ergonomics Canada*, ACE's annual magazine for the public. Available in both hard copy and electronically, *Ergonomics Canada*, provides timely information on various aspects of ergonomics and human factors. The electronic issue will be available via the ACE website (www.ace-ergocanada.ca) very soon. You can also download copies of past issues.

Social Activities at the Conference

Opening Reception and Exhibitor Showcase



Tuesday, October 7, 2014

Polyvalente room, pavilion SH

Cœur des Sciences UQAM building

Join other delegates and speakers at the opening reception held on Tuesday, October 7, 2014 in UQAM's Polyvalente room.

This evening is an excellent opportunity to renew contact or meet colleagues from Canada, the United States, Europe, Africa and South America.

You will also have a chance to discover the latest ergonomic products and services presented by our exhibitors!

Starting at 5:30 p.m.

Cost:

The cost of admission for the reception (including a drink and appetizers) is included for attendees of the full conference. Extra tickets can be purchased (\$40 per ticket) for guests or attendees who did not register for the full conference. **Use the online form to purchase tickets.**

Conference Social Events

Dual Cocktail

Launch of the English version of the *Intervention en ergonomie* book and celebration of the PISTES magazine's 15th anniversary

Wednesday, October 8, 2014

Polyvalente room, pavilion SH

Cœur des Sciences UQAM building



Two important events will be celebrated at this cocktail party:

The launch of the English version of the *Intervention en ergonomie* book (entitled *Ergonomic Intervention*). Marie St-Vincent and Nicole Vézina invite you to discover this excellent book, which presents a modern vision of ergonomics.

Concurrently, Élise Ledoux and Denys Denis, co-editors of the French-language PISTES magazine, invite you to celebrate 15 years of the magazine's examination of social and human aspects of work and how they affect the health of people and organizations.

Join us for this celebratory gathering!

Starting at 6:00 p.m.

Cost:

The cost of admission for this dual cocktail (including a drink and appetizers) is included for attendees of the full conference. Extra tickets can be purchased (\$40 per ticket) for guests or attendees who did not register for the full conference. **Use the online form to purchase tickets.**

Exhibitor Showcase

Join our exhibitor showcase!

ACE 2014 brings together a diverse and influential group of professionals from throughout North America whose common goal is to enhance the safety and effectiveness of people at work and at play. Involvement with this event provides high profile exposure for your people, your products and your organization. Contact info@ace-ergocanada.ca for more information!

ergoCentric Your ergonomic seating specialists

At ergoCentric Seating Systems, our sole mission and focus is to design and manufacture the best ergonomic chairs in the world.

Working closely with ergonomists and healthcare specialists to continuously improve and refine our chair designs, ergoCentric Seating Systems offers a wide range of contemporary task, executive, waiting room and stackable seating for the office. Our industrial and high-tech seating meet factory, laboratory, ESD and cleanroom requirements.

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Contour Design has specialized in manufacturing ergonomic input devices since 1995. Our core philosophy is to continue to provide evolutionary products that allow computer users to work on their computers for extended periods of time without the risk of physical pain or injury.

Our RollerMouse products help eliminate the need to grip, or reach for, the mouse. Visit our booth to experience unrivaled comfort, control, and pinpoint accuracy with RollerMouse Red; an innovative, ergonomic mouse that sits in front of the keyboard allowing users to stay in the optimal work zone with relaxed hands and a neutral wrist posture.

Visit our website: www.rollermouse.com

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www.hoskin.com

Exhibitor Showcase (continued)

IRSST



One of the leading OHS research centres in Canada, the Institut de recherche Robert-Sauvé en santé et en sécurité du travail (IRSST) conducts and funds research activities aimed at eliminating risks to worker health and safety and at promoting worker rehabilitation.

[IRSST](http://www.irsst.qc.ca)



Nexgen ergonomics Inc.
www.nexgenergo.com

NexGen Ergonomics, provides the most extensive product line of software and instrumentations for ergonomic and biomechanical job-analysis, design and research in the world. These include: 3D human modeling software, ergonomic design systems, video analysis and other job analysis systems, force measurement systems, EMG analysis systems and data acquisition systems. Whether your requirement is for simple ergonomic job analysis software, systems to synchronize various sensors, or for sophisticated human modeling software in a virtual reality environment, we have the solutions for you.

Some of our well known products include: HumanCAD, ErgoMaster, ErgoIntelligence MMH and UEA, MVTA, Lumbar Motion Monitor(iLMM3), I2M inertial sensors with HM-Analyzer software, FSA pressure measurement systems, Ametek-Chatillon, Mark10 and other force gauges, Thought Technology & Biometrics EMG and physiological systems, movement analysis solutions, data acquisition systems, temperature mapping, Tekscan FSR solutions, VATS human vibration analysis system, dynamometers, temperature mapping and more.

www.nexgenergo.com



The Global Group

We believe ergonomics is an integral part of corporate success and commit to:

- Providing leadership in the development of office-related standards and guidelines;
 - Educating the architect and design community about the importance of sound application of ergonomics in the work place
 - Serving ACE members as an ergonomics resource
- Continuing to contribute to ACE's efforts in the development and promotion of ergonomics in Canada as the longest standing Corporate Member

[The Global Group](http://www.theglobalgroup.com)

ACE Corporate Member

Silver Conference Sponsor

Exhibitor Showcase (continued)



Synetik, the ergonomic solution

Synetik offers complete and innovative ergonomic solutions for the workplace. It is unique in how its manufacturing and consulting divisions complement one another, working together to contribute to healthy productivity in businesses.

The DESIGN manufacturing division: specializes in designing ergonomic equipment such as industrial and welding stools, work mattresses and other accessories. We also offer several ergonomic products, including office chairs, adjustable tables and specialized products.

The CONSULTING division: offers in-business ergonomic consultation to favour good posture and work methods, at work stations in factories and workshops as well as offices. The team of professionals offers: training and coaching, seminars, ergonomic assessments, individual intervention and worker accompaniment.

www.synetikergo.com

ACE Corporate Member



Posiflex Design

Imagine having complete freedom of movement while you work, with no muscle tension in your neck, back, shoulders or legs. At Posiflex Design, we create and manufacture equipment that helps you perform and feel your best. Our Free Motion Elbow Supports, specialized chairs and UpRight stand stool are innovative solutions for preventing and reducing musculoskeletal disorders.

Clinically proven: the Posiflex Free Motion Elbow Support system promises COMFORT, SAFETY and PRODUCTIVITY for professionals who do precision work. CAN BE ADDED TO MOST CHAIRS.

Our mobile UpRight stand stool is for people who work in a nearly-stationary standing position. It helps reduce pressure on the lower back, legs and feet, keeps the back straight and encourages blood circulation.

Our innovations improve lives, guaranteed!

www.posiflexdesign.com



Humanscale

"Humanscale is the leading designer and manufacturer of ergonomic products for the office and home. Our award-winning solutions—including seating, task lighting, keyboard supports, monitor arms, height-adjustable products and more—create safe and comfortable work environments for computer users, minimizing the risk of discomfort and injury.

Humanscale abides by a philosophy that good design achieves more with less. Through the design of simple, elegant solutions, Humanscale develops products that will stand the test of time—both functionally and aesthetically—while consuming as little of the Earth's limited resources as possible."

www.humanscale.com

Exhibitor Showcase (continued)

LIFEFORM® Lifeform Seating

Welcome to LIFEFORM. We offer personalized custom office chairs tailored specifically to the individual's needs. LIFEFORM is one of North America's leading furniture manufacturers of modern executive office chairs, with more than 150 dealers across the continent. If you're searching for superior seating solutions, look no further than LIFEFORM. Offering customization in function and aesthetics has given us the edge in the marketplace, providing customers with solutions they cannot find anywhere else today.

For over 30 years LIFEFORM has delivered quality products to customers, including some of the world's best known companies and famous individuals. Family owned and operated, and founded in 1976, LIFEFORM manufactures custom office chairs for the modern executive office. By incorporating principles instilled by the generations before them, LIFEFORM provides customers with a winning combination of quality products and customer service. For personalized custom office chairs call LIFEFORM today.

www.lifeformchairs.com

Bouty Inc.

Bouty draws on its unique know-how to offer a wide range of chairs and armchairs that are both modern and timeless. Firmly established for over 60 years, we are always attentive to our clients' expectations and continuously strive to ensure their daily comfort. This is what fuels our creativity and the care we take to produce superior quality products. Combined with dynamic management, our expansion strategy is based on the accelerated creation of distinctive products and seeking growth opportunities in our different markets.

www.bouty.com

MULTI-INDUSTRIEL

In business since 1983, MULTI-INDUSTRIEL uses its extensive industrial and institutional experience to advise its clients and find the most effective solutions, at the lowest cost. Over the years, we have become a leader in distributing handling, storage and factory equipment to Quebec businesses. Every day, we strive to help our clients implement innovative solutions for all types of layout, storage and handling problems, in factories, offices, laboratories and more. Multi-Industriel has acquired an enviable reputation among Quebec businesses and institutions. We develop solutions for you, with you!

www.multi-industriel.com

Ergotron is a world leader in delivering sit-stand mobility to the office space at an affordable price.

ergotron.com

ACE Corporate Membership

ACE aims to promote ergonomics and to raise the standards of practice in ergonomics. Through our Corporate member program, we are building stronger links between ACE and private and public enterprise in pursuit of this mission.

Corporate members will be recognized as supporters of ergonomics in Canada. They will help ACE to achieve its goals and ACE will reciprocate with special Corporate member benefits. The program is a great step for both ACE and the field of ergonomics in Canada and we welcome the partnership opportunities it will provide!

Some of the advantages associated with Corporate membership include:

- Recognition as a supporter of ergonomics in Canada
- Visibility on the ACE Web site
- Access to the network of Canadian Ergonomists including professional consultants and researchers
- Access to national and regional conferences and workshops
- Member advertising rates for *Ergonomics Canada* magazine

For more information about Corporate membership, please contact the ACE National Office at 1-888-432-2223

Thank-you to our Corporate Members for their support of ACE and ergonomics in Canada.



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