

**RESEARCH MEETING PRACTICE TO** 

## PREVENT

**MUSCULOSKELETAL DISORDERS** 



Centre of Research Expertise for the Prevention of Musculoskeletal Disorders



## A safety partnership



A message from George Gritziotis, Chief Prevention Officer and Associate Deputy Minister Ontario Ministry of Labour

While MSDs aren t exactly fodder for the writers of tomorrows headlines, perhaps they should be.

After all, injuries to the muscles, tendons, ligaments and nerves that develop from ergonomic risk factors such as repetitive, forceful or awkward movements — musculoskeletal disorders — are almost always preventable.

But if they re preventable, why do MSDs continue to account for more than 40 per cent of all lost time workplace injuries in Ontario? This situation must not continue, and I have every confidence that it won t.

Although the personal and financial burdens of work related MSDs are incalculable, they are becoming increasingly avoidable thanks in large measure to the multi faceted approach of organizations such as the Centre of Research Expertise for the Prevention of Musculoskeletal Disorders (CRE MSD), hosted by the University of Waterloo.

In April 2012, the Ministry of Labour acquired the mandate to help improve the prevention of work related injuries and illnesses. In my new role as Chief Prevention Officer, I regard the work of CRE MSD as essential to the revitalization of Ontarios ongoing quest for workplaces that are safer and healthier.

The Centre's impressive endeavours span the field of MSD prevention research from intensive, laboratory based studies into cell and tissue disorders to the creation, implementation and evaluation of prevention programs. I am certain that the Centre's findings will continue to inform valuable improvements to health and safety in our everyday world of work.

As Ontario develops its first system wide integrated occupational health and safety strategy, I look forward to working with CRE MSD in contributing to the establishment of clear priorities that will guide the occupational health and safety community (system partners, labour and businesses, education and training, private trainers) in the years ahead.

George Gritziotis

Chief Prevention Officer, Associate Deputy Minister of Labour



## About The Centre of Research Expertise for the Prevention of Musculoskeletal Disorders (CRE-MSD)

The Centre of Research Expertise for the Prevention of Musculoskeletal Disorders (CRE-MSD) was founded in 2004 to improve the understanding and prevention of musculoskeletal disorders. CRE-MSD is led by Dr. Richard Wells, the Director, and Dr. Jack Callaghan, the Associate Director of Research, who are committed to engaging a network of dedicated researchers across thirteen research institutions, partners and collaborators to initiate activities that address the challenges of preventing MSDs.

Together with our workplace partners, our vision is to identify the key questions, find the best research answers, and pass on the best knowledge that will lead to the prevention of MSDs at work. Our commitment to workplace intervention research, to involving workplace parties in the identification and execution of research, and to creating a diverse network of researchers across Ontario will make sure that there is a place for this interest to be nurtured.

Our commitment to MSD prevention research and our reputation in the research community has built strong collaborative ties with other research centres locally and across Canada. Our researchers contribute to the scientific direction of the Centre and our strategy continues to encourage established researchers, young faculty and students to engage with partners.

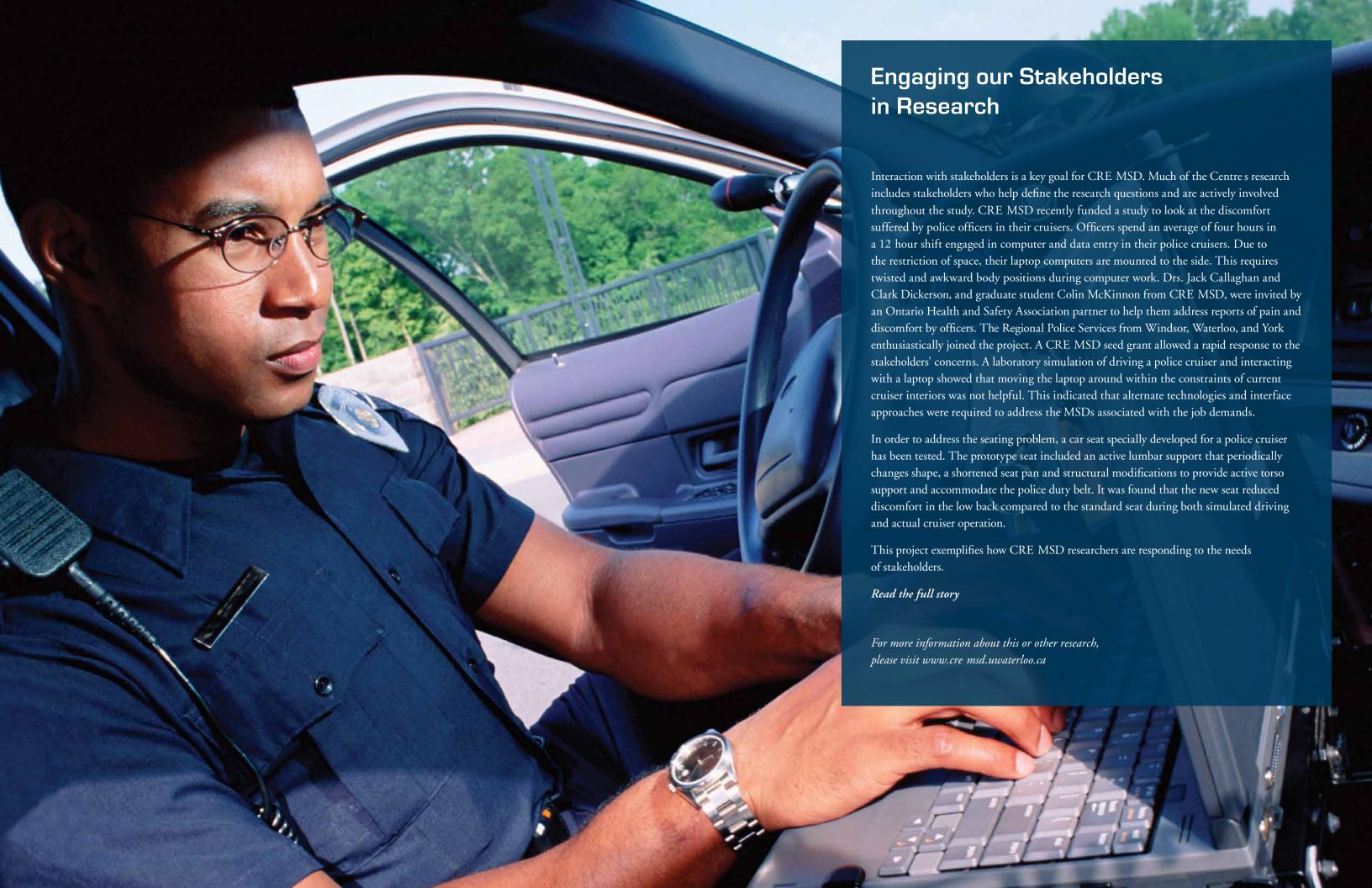
CRE-MSD is firmly committed to its research to practice initiatives that highlight our commitment and dedication to stakeholder involvement and knowledge transfer. This strategy emphasizes the value added proposition that underpins the Centre's activities:

"RESEARCH MEETING PRACTICE TO PREVENT MUSCULOSKELETAL DISORDERS"

"The Centre highlights important issues in the prevention of MSDs by hosting conferences and workshops. The Centre is now a meeting point where different views can be expressed, and even 'puzzlement' can be discussed. We raise awareness on issues that need attention. We sponsor 'conversations' on these issues, and then profile, explore and examine these issues on our website."

Dr. Richard Wells	
CRE MSD Director	













Dr. Richard Wells is the Director of CRE MSD and a Professor in the Department of Kinesiology at the University of Waterloo. For the last two decades his main research and teaching interests have been work related MSDs of the upper extremity and low back in industrial and office settings. His research includes approaches to document exposure at work to assess work relatedness and the development of workplace processes and changes to prevent MSDs and monitor their health effects. He has been involved in ergonomics standards and regulations with ACGIH and OSHA in the USA and in the Ontario Strategy for the Prevention of MSDs and CSA. Richard is an Adjunct Scientist at the Institute for Work and Health and is also a consultant and speaker on ergonomic issues.

Dr. Richard Wells



Dr. Jack Callaghan is a Professor in the Department of Kinesiology at the University of Waterloo. He is CRE MSD s Associate Director, Research and holds the Canada Research Chair in Spine Biomechanics and Injury Prevention. He completed his undergraduate education at the University of Ottawa and his Masters and Doctorate degrees at the University of Waterloo where he specialized in spinal biomechanics. His main research interest is injury mechanisms from exposure to cumulative loading including the development of low back pain from sedentary and prolonged workplace exposures. This knowledge will complement existing epidemiological data, linking cumulative loading and low back pain, for setting exposure limits and helping to prevent low back injuries.

Dr. Jack P. Callaghan



"Our organization's experience with CRE-MSD and its researchers was a positive, beneficial working partnership. We were able to share our industry insight and expertise, while the CRE-MSD team provided the benefit of their broader experience and knowledge, resulting in real life solutions tailored to reducing the risk of an MSD injury for our industry workforce. The knowledge we gained was shared with our employees, both during the study, as many of the employees were actively involved in the study, and since that time, in the form of training. The findings provided us with an awareness of how to carry out our workplace responsibilities more safely by adopting approaches that erred on the side of caution where there was risk of exposure to MSD injury. The greatest benefit of this study was that we were also able to take away the knowledge and ongoing proactive approach to real life situations we are faced with in our industry."

Sylvia Rhodes

President, L. Ritchie Cartage Limited •

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