

Centre for Research in Occupational Safety and Health (CROSH)
Annual Report
2020-2021



Our students today,
your safety professionals tomorrow.

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MESSAGE FROM THE **DIRECTOR** AND **ASSOCIATE DIRECTOR**



Dr. Sandra Dorman
Director, CROSH



Dr. Alison Godwin
Associate Director, CROSH

Dear Members and Supporters,

This past year has been unique in many ways as CROSH and the world grappled with the new reality of the SARS-COVID-19 pandemic. Despite the many challenges, personally and professionally, that this disease has created; it has also highlighted the resilience and ability that humans possess to pivot and respond to new challenges and create new opportunities. We do not want to forget the many tragedies that people suffered this past year; too many lives have been lost and too many people have lost their jobs and businesses; we mourn and ache with them.

Throughout though, we have also seen enormous human kindness, the spirit of support and love, and as we recover, we hope that the best pieces of the last year will remain, such that we build a stronger, better system of work and community, for our families.

This annual report highlights some of the efforts of our people, from the research that was developed to respond to this crisis, to the students and workplaces who both rapidly adapted their communications and work tasks. Many people offered up their expertise to provide information and answer critical questions when uncertainly reigned. Many worked extended hours under difficult circumstances and sometimes dangerous circumstances to support their community and country.

To all of you, we say: thank you!

MISSION AND APPROACH

We envision a Northern Ontario where workplaces partner to ensure every worker gets home safe and healthy every day. We will be an agent for innovation and discovery to solve relevant and critical problems facing northern industries so they can eliminate occupational injury and disease from their workplaces.

CROSH embodies a **Field-to-Lab-to-Field** research philosophy with the goal of achieving **Prevention Through Research**. Through community consultation and engagement CROSH researchers identify critical research questions. We engage in innovative Field research to understand the problem, develop evidence-based interventions in the Lab, and evaluate the interventions in the Field.

VALUES

At CROSH we are:

Committed to Scientific Excellence and Innovation – We develop, and assist partners in developing, cutting edge, research-based solutions to inform decision-making about occupational health and safety.

Respectful and Considerate – We believe in fostering a work environment that promotes equity, diversity, and inclusion, embraces the uniqueness of individuals, and is representative of the Northern Ontario population. As such, we require that every individual be treated with respect and consideration so as to support their personal and professional growth.

Outreach Focused – We actively nourish the relationships between our researchers and Northern Ontario workplaces by promoting the exchange of knowledge and student training.

Strengthened by Collaboration – We acknowledge that our work is strongest when we incorporate interdisciplinary perspectives, which ensures that our research addresses broad challenges and is relevant to the organization.

Honest in All Our Practices – We conduct research according to sound practices that value open communication, welcome accountability, and strive for continual improvement.

RESEARCH AREAS

To positively impact occupational health and safety policy and practice, our multidisciplinary team of experts and their research partners engage stakeholders in three broad research streams: **Human Factors and Ergonomics (HFE)**; **Occupational Health and Wellness (OHW)**; and **Occupational Physiology and Environment (OPE)**. Each research area is spearheaded by one of our Research Leads.

EXECUTIVE COMMITTEE

The Executive Committee oversees CROSH business with respect to the Strategic Plan as well as reviewing and voting on all CROSH membership applications.



Dr. Katie Goggins
Member-at-Large



Dr. Brent Lievers
Member-at-Large



Dr. Ann Pegoraro
Member-at-Large



Nazanin Gholami
Graduate Student Representative



Tobi Mankis
Science Communication
Officer (non-voting)



Dr. Sandra Dorman
Director



Dr. Alison Godwin
Associate Director



Dr. Judith Horrigan
OHW Research Lead



Dr. Kathryn Sinden
HFE Research Lead



Dr. Dominique Gagnon
OPE Research Lead

STAFF



Dr. Katie Goggins
Post-Doctoral Researcher



Courtney Lessel
Science Communication
Intern



Tobi Mankis
Science Communication
Officer



Dr. Matt Spencer
Post-Doctoral Researcher



Giselle Thrush
Administrative Assistant



Wesley Young
Workplace Simulator
Technologist

ADVISORY BOARD

Our Advisory Board is composed of highly experienced and successful leaders from industry, labour, and OHS-focused organizations. They provide advice on the strategic direction of CROSH to guide our research efforts by advising on the occupational health and safety research needs for Northern Ontario industries, workplaces, and communities.

Leo Gerard (Chair)

Past-International President,
United Steelworkers

Craig Allair

Worker Safety Representative,
Vale

Paul Andre

President and CEO,
Workplace Safety North

Mike Bond

Chair, USW Local 6500
Health and Safety Committee

Natalie Carscadden

Manager, Occupational Health, Safety and
Wellness, Health Sciences North

William Cole

OHS Consultant

David Chezzi

President and Chair of the Board, Canadian
Union of Public Employees (CUPE)

Kari Cusack

Workers Health & Safety Centre,
Northeastern Ontario Office

Ric deMeulles

OHS Consultant

Jacques Jean

USW Representative
President, Local 1-2010

Harsim Kalsi

Ontario Ministry of Labour, Training and Skills
Development

Jody Kuzenko

Chief Operating Officer,
Torex Gold Resources Inc.

Carol Lapointe

General Manager,
Domtar

Shawn Matthews

Manager of Safety and Health,
Ontario Operations, Vale

Terry McCormick

Canadian Auto Workers Mine/Mill 598 Unifor

Kimberly O'Connell

Executive Director, Eastern and Northern
Ontario Regions, Occupational Health Clinics
for Ontario Workers (OHCOW)

AFFILIATE MEMBERS

Our Affiliate Members are individuals with an interest in occupational health and safety research who are not registered as students or employed as faculty at a post-secondary institution.

Peter Ayenimo

Project HSE Advisor, Worley Canada

Nicholas Beckett-Brown

Health and Safety Coordinator &
Administrator, Milman Industries Inc.

Dr. Mallorie Leduc

Programme Coordinator in the School of
Public Health, University College Cork

Courtney Lessel

Science Communication Intern, CROSH

Stephanie Munten

Research Assistant, Laboratory of
Environmental Exercise Physiology (LEEP) at
Laurentian University

Ayden Roberson

Health and Safety Consultant, Workplace
Safety Prevention Services

Peg Scherzinger

Retired Sessional Instructor and Ergonomist

Jozef Stachulak

Manager of Strategic Ventilation and Diesel
Research, MIRARCO

Brandon Vance

HSE Consultant – Advisory Services,
NORCAT



RESEARCH MEMBERS

CROSH Research Members are independent researchers who are faculty members or post-doctoral researchers from recognized, post-secondary institutions. They conduct research applicable to occupational health and safety and directly train and supervise our student members - the next generation of safety professionals.

Dr. Anil Adisesh

Associate Professor and Division Director,
Occupational Medicine,
University of Toronto

Dr. Randy Battochio

Adjunct Professor, School of Kinesiology and
Health Sciences,
Laurentian University

Dr. Sandra Dorman

Full Professor, School of Kinesiology and
Health Sciences,
Laurentian University

Dr. Tammy Eger

Vice-President Research,
Laurentian University

Dr. Dominique Gagnon

Assistant Professor, School of Kinesiology and
Health Sciences,
Laurentian University

Dr. Sabir Giga

Senior Lecturer, Organizational Health and
Well-Being,
University of Lancaster

Dr. Alison Godwin

Assistant Professor, School of Kinesiology and
Health Sciences,
Laurentian University

Dr. Basem Gohar

Adjunct Professor, School of Kinesiology and
Health Sciences,
Laurentian University

Dr. Ratvinder Grewal

Associate Professor, Bharti School of
Engineering and Computation,
Laurentian University

Dr. Aaron Kocioleck

Associate Professor, School of Physical &
Health Education, Nipissing University

Dr. Aaron Langille

Master Lecturer, School of the Environment,
Laurentian University

Dr. Céline Larivière

Dean, Faculty of Education and Health,
Laurentian University

Dr. Michel Larivière,

Full Professor, School of Kinesiology and
Health Sciences,
Laurentian University

Dr. Caleb Leduc

Postdoctoral Researcher,
University College Cork

Dr. W. Brent Lievers

Associate Professor, Bharti School of
Engineering and Computation,
Laurentian University

Dr. Nancy Lightfoot

Full Professor, School of Rural and Northern
Health,
Laurentian University

Dr. Kerry McGannon

Full Professor, School of Kinesiology and
Health Sciences,
Laurentian University

Dr. Thomas Merritt

Full Professor, School of Biological, Chemical
and Forensic Sciences,
Laurentian University

Dr. Behdin Nowrouzi-Kia

Assistant Professor,
Department of Occupational Science and
Occupational Therapy,
University of Toronto

Dr. Jairus Quesnele

Assistant Professor,
Northern Ontario School of Medicine

Dr. Nicholas Ravenelli

Assistant Professor, School of Kinesiology,
Lakehead University

Dr. Stephen Ritchie

Associate Professor, School of Kinesiology
and Health Sciences,
Laurentian University

Dr. Olivier Serresse

Associate Professor, School of Kinesiology
and Health Sciences,
Laurentian University

Dr. Kathryn Sinden

Assistant Professor, School of Kinesiology,
Lakehead University

Dr. Line Tremblay

Full Professor, School of Kinesiology and
Health Sciences,
Laurentian University

Post-Doctoral Researchers

Dr. Katie Goggins

Postdoctoral Researcher,
Human Factors and Ergonomics,
CROSH, Laurentian University

Dr. Zsuzsanna Kerekes

Postdoctoral Researcher,
Occupational Health and Wellness,
CROSH, Laurentian University

Dr. Matt Spencer

Postdoctoral Researcher,
Occupational Physiology and Environment,
CROSH, Laurentian University

STUDENT MEMBERS

Our student members are the next generation of occupational health and safety professionals in Northern Ontario. In addition to their course work, they are actively involved in occupational health and safety-related research projects, internships, workshops, outreach, and more!

Undergraduate Students

Sydney Boileau

Program: Kinesiology
Laurentian University

Allison Caswell

Program: Human Kinetics
University of Guelph

Vanessa De Coppi

Program: Health Promotion
Laurentian University

George Flagler

Program: Health Promotion
Laurentian University

Sara Gauthier

Program: Kinesiology
Laurentian University

Kira Gouchie

Program: Kinesiology
Laurentian University

Matthew Kuchtaruk

Program: Kinesiology
Laurentian University

Stephanie Pilon

Program: Kinesiology
Laurentian University

Taryn Thompson

Program: Biomedical Biology
Laurentian University

Patrick J. Trottier

Program: Computer Science
Laurentian University

Nicholas Vanderschoor

Program: Health Promotion
Laurentian University

Master's Students

Dr. Oghenefego Akpomi-Eferakeya

Program: Master's in Interdisciplinary Health
Laurentian University

Nathaniel Barnett

Program: Master's in Interdisciplinary Health
Laurentian University

Rachelle Barrette

Program: Master's in Computational Sciences
Laurentian University

Rebecca Bond

Program: Master's in Human Kinetics
Laurentian University

Jacob Bonin

Program: Master's in Human Kinetics
Laurentian University

Shivam Chadha

Program: Master's of Science in Biochemistry
and Medical Genetics
University of Manitoba

Josée Cormier

Program: Master's in Human Kinetics
Laurentian University

Brittany Culbertson

Program: Master's in Physical Therapy
Western University

Jonah D'Angelo

Program: Master's in Human Kinetics
Laurentian University

Samuel Daoust

Program: Master's in Human Kinetics
Laurentian University

Amanda Dodaro

Program: Master's in Public Health,
Lakehead University

Kimberly Friesen

Program: Master's in Human Kinetics
Laurentian University

Nazanin Gholami

Program: Master's in Human Kinetics
Laurentian University

Curtis Hancock

Program: Master's in Human Kinetics
Laurentian University

Margaret Kanya-Forstner

Program: Master's in Human Kinetics
Laurentian University

Kelsey Lefebvre

Program: Master's of Science in Nursing
Laurentian University

Liam Nesbitt

Program: Master's in Human Kinetics
Laurentian University

Kate Posluszny

Program: Master's of Science in Kinesiology
Lakehead University

Désirée Quenneville

Program: Master's in Human Kinetics
Laurentian University

Sara T. Sayed

Program: Master's in Kinesiology
Lakehead University

Chelsea Sherrington

Program: Master's in Human Kinetics
Laurentian University

Dr. Mohamed Shoukri

Program: Master's in Interdisciplinary Health
Laurentian University

Victor Benitez Tamayo

Program: Master's in Human Kinetics
Laurentian University

Lance Warwick

Program: Master's in Hospitality and Tourism
Management
University of Guelph

Kelsey Whelan

Program: Master's in Human Kinetics
Laurentian University

Disal Wickramasinghe

Program: Master's in Interdisciplinary Health
Laurentian University

Beau Williams-Orser

Program: Master's in Human Kinetics
Laurentian University

Jared Whitney

Program: Master's in Human Kinetics
Laurentian University

Welsey Young

Program: Master's in Engineering (Mining-
Mechanical)
Laurentian University

Azin Zargham

Program: Master's in Human Kinetics
Laurentian University

Doctoral Students

Mahdis Aziziderouei

Program: PhD in Kinesiology
Lakehead University

Caroline Dignard

Program: PhD in Rural and Northern Health
Laurentian University

Amy Doan

Program: PhD in Human Studies
Laurentian University

Tim Doan

Program: PhD in Human Studies
Laurentian University

Eyad Kinkar

PhD in Biomolecular Science
Laurentian University

Reza Mehboob

Program: PhD in Interdisciplinary Studies,
University of New Brunswick

Sherry Mongeau

Program: PhD in Interdisciplinary Health
Laurentian University

Solange Marc St Hilaire

Program: PhD in Human Studies and
Interdisciplinary Health
Laurentian University

Emily Tetzlaff

Program: PhD in Human Kinetics
Laurentian University

Parastou Zerangsangarolia

Program: PhD in Human Kinetics
Laurentian University

Xiaoke Zeng

Program: PhD in Public Health Sciences
University of Toronto

PARTNERSHIPS AND STRATEGIC ALLIANCES

We are proud to have developed ongoing partnerships and strategic alliances with businesses, industries, and other occupational health and safety organizations.



Vale - Totten Mine
Vale - Coleman Mine
Vale - Transportation
Vale - Fraser



Ministry of Labour, Training and Skills Development
Ministry of Natural Resources and Forestry

YEAR IN REVIEW



STUDENT AWARD WINNERS

This year, 11 graduate and undergraduate CROSH student members earned financial awards totalling \$37,500. The awards, funded by CROSH and our industry and community partners, allow our students to focus their time and effort on their occupational health and safety research.

Oghenefego Akpomi-Eferakeya
Mega Comfort Award (\$500)

Oghenefego Akpomi-Eferakeya
Sudbury Mine, Mill and Smelter Workers' Union Local 598/Unifor (\$2,500)

Parastou Zerangsangarolia
UA Local 800 Graduate Fellowship Award (\$5000)

Josée Cormier
William Shaver Master's in Mining Occupational Health and Safety (\$5000)

Emily Tetzlaff
William Shaver Doctoral in Mining Occupational Health and Safety (\$5000)

Caroline Dignard
CROSH Occupational Health and Wellness Fellowship (\$3000)

Nazanin Gholami
CROSH Occupational Physiology and Environment Fellowship (\$3000)

Azin Zargham
CROSH Occupational Physiology and Environment Entrance Scholarship (\$3000)

Disal Wickramasinghe
CROSH Human Factors Ergonomics Fellowship (\$3000)

Sherry Mongeau
Dr. Fergal Nolan Radiation Safety Institute of Canada Graduate Award (\$5000)

Disal Wickramasinghe
United Steelworkers Graduate Scholarship (\$1000)

Sara Gauthier
United Steelworkers Undergraduate Scholarship (\$1000)

Amanda Dodaro
CROSH 4th Year Undergraduate Award (\$500)



11 Students 13 Awards
\$37,500 in Funding



STUDENT DEFENCES

For their thesis defence or major research paper presentation, students deliver a comprehensive overview of their research project, including a summary of other relevant research, their methods, their findings, and the implications of their findings. This year, all students presented virtually. We are extremely proud of all the CROSH student members who completed their theses and course work this year.



Danielle Aubin

Master's in Interdisciplinary Health
After the dust settles: A qualitative study of underground workers exposed to an aluminum dust prophylaxis.



Matthew Felton

Master's in Human Kinetics
Exposure assessment of aerosol concentrations for non-remunerated ski wax technicians in Ontario: two-day assessment.



Corey Bouwmeester

Master's in Human Kinetics
The effect of underground mining footwear on lower limb gait characteristics and perceived comfort.



Kimberly Friesen

Master's in Human Kinetics
Exploring trail use and the health of students at a university in Canada.



Alyssa Brunton

Master's in Human Kinetics
Measuring differences in eye glance behaviour for heavy equipment operators while driving in naturalistic worksite environments.



Sara Gauthier

Bachelor of Science in Kinesiology
Use of virtual reality to increase awareness of line-of-sight hazards around industrial equipment.



Josée Cormier

Master's in Human Kinetics
Paired comparison study to determine the impact of rotated neck/trunk posture combined with vibration exposure on seated comfort.



Margaret Kanya-Forstner

Master's in Human Kinetics
Assessing whole-body vibration transmissibility in children's bicycle trailers.

STUDENT DEFENCES



Alexis McCue

Master's in Human Kinetics
Muscle temperature influences oxygen uptake and blood flow during single leg isokinetic exercise.



Stephanie Pilon

Bachelor of Science in Kinesiology
The roles of hand function rehabilitation in post-stroke survivors.



Chelsea Sherrington

Master's in Human Kinetics
Slips, trips and falls in Northern Ontario underground mining.



Patrick J. Trottier

Bachelor of Computer Science
A Zwift change in cycling: An analysis of the audience of the men's 2020 Le Tour de France Virtuel and Le Tour de France United.



Kelsey Whelan

Master's in Human Kinetics
Effectiveness of a participatory ergonomic approach to develop interventions aimed at addressing musculoskeletal disorder risk factors within a mine core shack.



Beau Williams-Orser

Master's in Human Kinetics
An exploratory study of post-secondary outdoor leadership training in Canada.



Wesley Young

Master's in Engineering
(Mining-Mechanical)

STUDENT INTERNSHIPS

One of CROSH's core missions is to collect and share Occupational Health and Safety (OHS) knowledge, while providing OHS training to students and engaging workplaces in remote and rural communities of Northern Ontario. CROSH funds student interns to partner with workplaces to assist with a workplace-identified OHS problem. This year, CROSH directly funded 11 student internships while supporting a number of others.

Rebecca Bond, Master's Student

"Using models from safety theory to explore historical accident data from the mineral exploration field"
Avalon Advanced Materials

Josée Cormier, Master's Student

"Various OHS projects including development of courses and training"
NORCAT

Vanessa De Coppi, Undergraduate Student

"COVID-19 controls within the Ontario Mining Association and the International Council on Mining and Metals"
MIRARCO and Ontario Mining Association

Amanda Dodaro, Undergraduate

"Modified bow-tie analysis of Ontario mining association COVID-19 controls"
MIRARCO

George Flagler, Undergraduate Student

"Working-at-home ergonomics/Panbio antigen COVID-19 rapid testing 8-week pilot project"
Laurentian University, OHS Department

Sara Gauthier, Undergraduate Student

"Reliability of thermal detection equipment to detect human body temperatures"
Provix and Glencore

Nazanin Gholami, Master's Student

"Various OHS Projects"
OHCOW

Eyad Kinkar, PhD Student

"COVID-19 management in the workplace: Swabbing to result management of essential workers"
NEOMO

Kelsey Lefebvre, Master's Student

"Health promotion; Influenza campaign; Workplace violence prevention"
Health Sciences North, OHS Department

Emily Tetzlaff, PhD Student

"Health, safety and training data analysis"
Torex Gold Inc

Lance Warwick, Master's Student

"Leadership Diversity and COVID-19 Risk Management in NCAA Division I Football"
Divergent Lab, University of Guelph

Jared Whitney, Master's Student

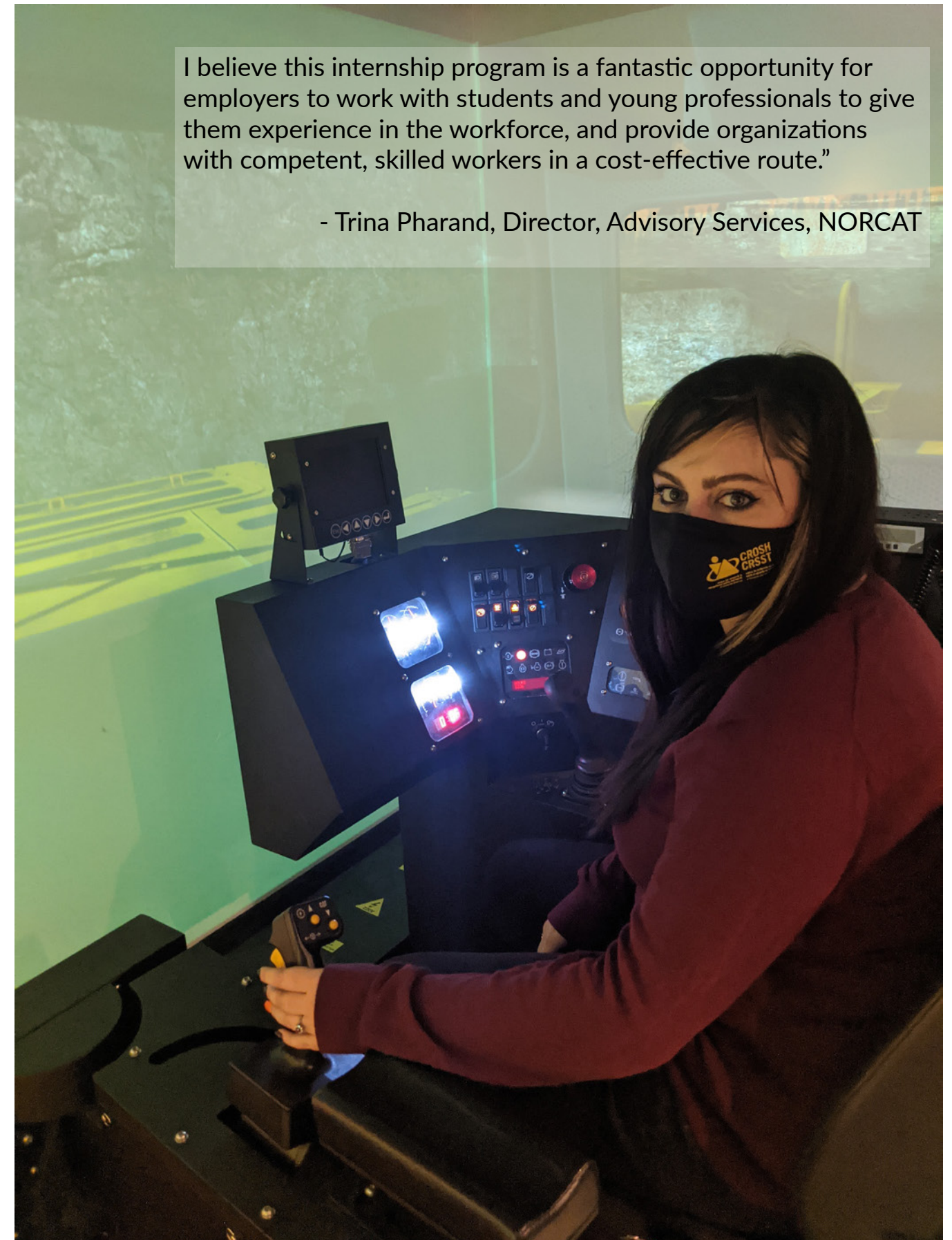
"Analysis of return-to-sport protocols amidst the COVID-19 pandemic"
Laurentian University, CROSH

Azin Zargham, Master's Student

"WSIB Excellence Program review"
Laurentian University, OHS Department

I believe this internship program is a fantastic opportunity for employers to work with students and young professionals to give them experience in the workforce, and provide organizations with competent, skilled workers in a cost-effective route."

- Trina Pharand, Director, Advisory Services, NORCAT



CROSH student member Josée Cormier at her internship at NORCAT this year. After completing her master's degree, **Josée was hired full-time by NORCAT.**



For his internship with Laurentian University's OHS Department, George Flagler assisted with a Panbio antigen rapid testing pilot project.

"I would participate in [the internship] program every year if possible and would recommend it to any organization looking to improve its Health and Safety performance."

- Nelson Bodnarchuk
Director, Health Safety & Training, Torex Gold Resources Inc.

"I definitely feel this internship was a worthwhile experience, as it allowed me to learn about the mining industry and gave me the opportunity to understand first hand how public health emergencies affect every facet of workplace operations. Not only did I gain this new perspective, but I also had the opportunity to work and collaborate with others and learn about risk assessment and hazard control. I would recommend this [internship] to another student as I feel that it is a great learning opportunity in a very welcoming and collaborative environment."

- Vanessa De Coppi
CROSH student member on her internship at MIRARCO

ALUMNI SNAPSHOT

Many CROSH student members go on to successful careers involving occupational health and safety. Here is a look at what a few of our student alumni are up to:

Nicholas Beckett-Brown

Health and Safety Coordinator & Administrator,
Milman Industries Inc.

Degree Program: Master's in Human Kinetics

Josée Cormier

HSE Consultant, NORCAT

Degree Program: Master's in Human Kinetics

Chelsie Desrochers

Ergonomist, Occupational Health Clinics for
Ontario Workers Inc.

Degree Program: Master's Interdisciplinary
Health

Brianna Fortunato

Exercise Specialist, Health Sciences North

Degree Program: Kinesiology

Emily Jago

Program Coordinator, Fast and Female;
Research Manager, Food Policy Lab, Dalhousie
University; Rowing Coach; Dalhousie University

Degree Program: Master's in Human Kinetics

Margaret Kanya-Forstner

Registered Kinesiologist at CBI Health Group

Degree Program: Master's in Human Kinetics

Stefan Klaassen

Software Developer, HARD-LINE

Degree Program: Master's in Computational
Sciences

Sebastian Leroux

Registered Kinesiologist, South Sudbury
Wellness Centre

Degree Program: Master's in Human Kinetics

Jennifer Lynn-Fournier

Nurse Practitioner

Degree Program: PhD in Rural and Northern
Health

Alexus McCue

Clinical Research Coordinator, Medicor
Research Inc.

Degree Program: Master's in Human Kinetics

Mathew Parrotta

Software Developer, Flosonics Medical

Degree Program: Master's in Computational
Sciences

Chelsea Sherrington

Kinesiologist, Lifemark Health Group

Degree Program: Master's in Human Kinetics

Ayden Robertson

Specialized Consultant (Ergonomics),
Workplace Safety & Prevention Services

Degree Program: Master's in Human Kinetics

Brandon Vance

Health, Safety, and Environment Consultant –
Advisory Services at NORCAT

Degree Program: Master's in Human Kinetics

CROSH AND COVID-19

COVID-19 has impacted almost every facet of occupational health and safety. From seed grant projects to webinar series, throughout the past year CROSH has been at the intersection of occupational health and safety and COVID-19.

\$39,000+
in COVID-19-related seed grant funding

Project Title: Analysis of the recommendations stemming from the SARS Commission Report.

Project Budget: \$9,537.36

Lead Researcher: Dr. Katie Goggins

Co-Researcher: Dr. Alison Godwin

Project Title: The mental health of registered nurses and registered practical nurses in Northern Ontario during the COVID-19 Pandemic.

Project Budget: \$10,000

Lead Researcher: Dr. Judith Horrigan

Project Title: Longitudinal validity of a novel wireless and wearable cardiovascular hemodynamics system.

Project Budget: \$10,000

Lead Researcher: Dr. Dominique Gagnon

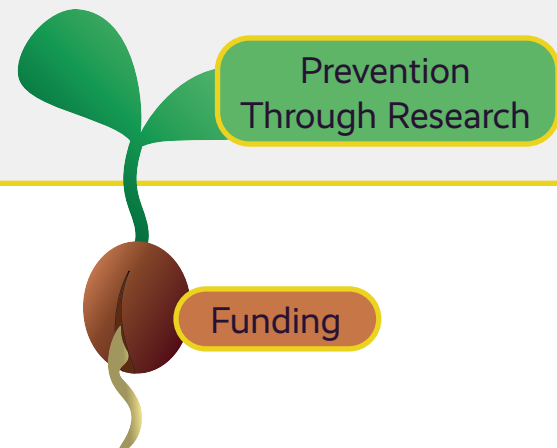
Co-Researcher: Stephanie Munten

Project Title: Reliability and validity of thermal detection equipment relative to human body related temperatures.

Project Budget: \$9,628

Lead Researcher: Dr. Alison Godwin

Co-Researcher: Dr. Katie Goggins

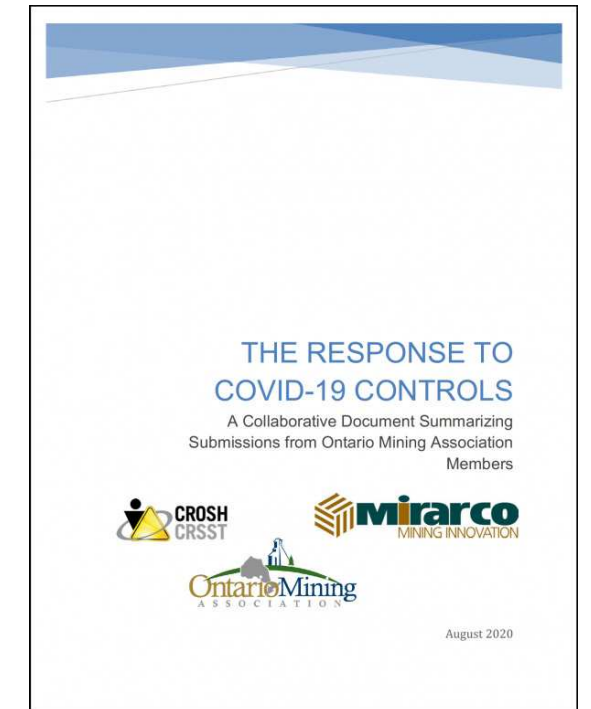


We partnered with MIRARCO and the Ontario Mining Association (OMA) to write a collaborative report cataloguing Ontario Mining Association members' response to the COVID-19 pandemic with the aim of highlighting and sharing best practices.

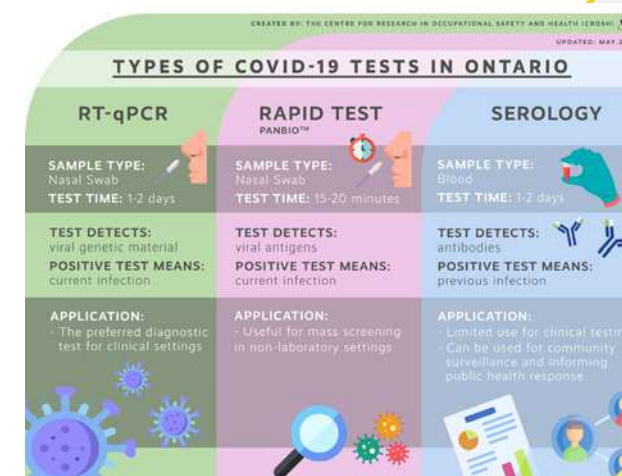


CROSH student member Amanda Dodaro (pictured) played a key role in developing this report as part of her internship with MIRARCO Mining Innovation.

Vanessa De Coppi, another CROSH student member, later continued on with this project as part of her own internship.



Download the full report at crosh.ca/resources.



One of our infographics on COVID-19. This infographic was created by our Graduate Research Assistant, Kristen Tam, and our Science Communication Intern, Courtney Lessel.

CROSH COVID CONVERSATIONS



Beginning on October 1, 2020, CROSH broadcast five, weekly webinars on the intersection of COVID-19 and occupational health and safety. Each live webinar consisted of presentations from two subject matter experts followed by an audience question and answer period. Webinars were moderated by CROSH Science Communication Officer Tobi Mankis. We broadcast live on Twitter, Facebook, and YouTube and to date have received over 650 views.

Visit crosh.ca/events/webinars to watch!



The fifth and final webinar looked at the mechanisms of COVID-19 and why vaccination is important. It was presented by Dr. Sandra Dorman, CROSH Director and Full Professor at Laurentian University, and Dr. Caitlin Mullarkey, Teaching Professor and the Associate Chair of Undergraduate Education in the department of Biochemistry and Biomedical Sciences at McMaster University.

The audience reaction for all five webinars was positive. From the YouTube comments for this video: "I found this really interesting and the explanations were really clear! Thank you so much for this :)"

October 1

Theme: Screening and Tracking for Workplaces
Panelists: Dr. Katie Goggins and Patrick J. Trottier

October 8

Theme: Managing the Flow in the Workplace
Panelists: Judit Nelson and Dr. Thomas Merritt

October 15

Theme: Breaking the Chain of Infection in the Workplace
Panelists: Dr. Sandra Dorman and Eyad Kinkar

October 22

Topic: Crisis and Opportunity in the Workplace
Panelists: Dr. Diana Coholic and Dr. Ann Pegoraro

October 29

Theme: Mechanisms of COVID-19 and Why Vaccination Matters
Panelist: Dr. Sandra Dorman

650+ Views



CROSH undergraduate student member Patrick Trottier was one of the panelists on CROSH COVID Conversations. He discussed the technology behind COVID-19 tracking and how it applies to the workplace.

CROSH-CON 2021



- 5** Student Three-Minute-Thesis Talks
- 10** Student 15-Minute Presentations
- 125** Attendees

CROSH-Con 2021 was a one-day, virtual conference connecting workplaces and students. CROSH student members showcased their occupational health and safety research and internship accomplishments in 15-minute presentations and in a Three-Minute-Thesis (3MT) competition. Our aim was for CROSH-Con to be an opportunity for individuals and workplaces to learn about the latest OHS research while seeing how our highly skilled students could help them develop OHS solutions.

All the CROSH-Con presentations can be viewed for free online at crosh.ca/events/crosh-con-2021



CROSH-CON 2021 Testimonials

CROSH continues to demonstrate exceptional value in the field of occupational safety and health, and has become the “go to” expert partner across industries and sectors. The mining industry in particular is fortunate to have CROSH as a member of the team, as their past, current and future work provides a strategic advantage in the industry’s goal to continually improve workplace safety. Events like CROSH-Con further demonstrate the organization’s commitment to not only the results of their work, but to the goal of engaging with industry and seeking to find solutions for the real world.

Ted Hanley, VP, Ontario Mine Rescue

The role of a safety professional is one of continual learning and growth. This conference was very valuable in aiding this growth and identifying areas that I would like to become more knowledgeable in. The quality and passion of those presenting was very high level, and it was obvious they knew what they presented.

Eric Larson, CRSP, Compliance Coordinator Shell Canada

CROSH-Con was a perfect platform for students to share their research outcomes and industrial experiences. Engagement within industries ensured they can relate theoretical aspects of OHS and the practicality behind it

Zubairy, PhD, HFE Consultant

I attended this year’s CROSH-Con 2021. It was a virtual Zoom event due to the COVID situation, but it was a very engaging and interesting day. Registration was free. The speakers were a diverse mix of students and faculty from different occupational health and safety (OHS) disciplines. Projects this year included mining, nursing, forestry, and of course COVID. I am not an expert in industrial OHS, but I found the talks to be interesting, very well presented, and very engaging. The Three Minute Thesis talks were great. Short. Clear. Focused. Bookmark the CROSH website and keep an eye out for this annual event. If you have an interest in occupational health and safety, or just want to learn some interesting stuff about important Northern Ontario industries and issues facing their workers, check out CROSH and this conference.

CROSH-Con Attendee

WEBINARS

CROSH Webinars are broadcast live online and are a fantastic way for individuals and organizations to learn about the latest OHS research and trends over a lunch hour. Our webinars are presented by both CROSH members and experts from our partner organizations, and they always include an audience question and answer period.

2020-2021 Webinars

From Stress Experience to PTSD: A Perspective on Stress Experience During the Pandemic Presented by Dr. Zsuzsanna Kerekes (CROSH)

Heart Healthy Presented by Dr. Sandra Dorman (CROSH).

Managing the Risk of Fatigue in the Workplace: Applying a Risk-Based Approach Presented by Heather Kahle (Human Factors Specialist, WorkSafeBC)

Screening and Tracking for Workplaces Presented by Dr. Katie Goggins and Patrick Tremblay (CROSH)

Managing the Flow in the Workplace Presented by Judit Nelson (Workplace Safety North) and Dr. Thomas Merritt (CROSH)

Breaking the Chain of Infection in the Workplace Presented by Dr. Sandra Dorman and Eyad Kinkar (CROSH)

Crisis and Opportunity in the Workplace Presented by Dr. Diana Coholic (Laurentian University) and Dr. Ann Pegoraro (CROSH)

Mechanisms of COVID-19 and Why Vaccination Matters Presented by Dr. Sandra Dorman (CROSH) and Dr. Caitlin Mullarkey (McMaster University)



You can watch all of our webinars at crosh.ca/webinars.

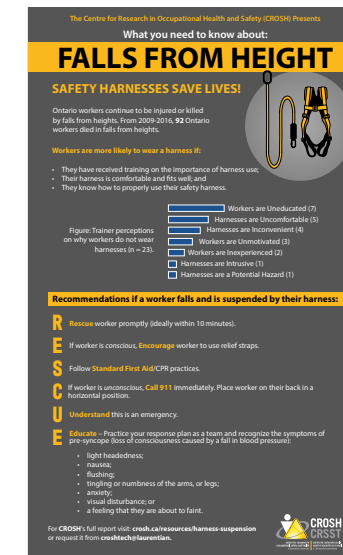


WORKING AT HEIGHTS

Ontario workers continue to be killed and injured in falls from height. At the same time, there exists misunderstandings on the use of fall arrest harnesses when working at heights. **George Flagler** (CROSH Undergraduate Student Member), **Dr. Sandra Dorman** (CROSH Director), and **Dr. Anil Adisesh** (CROSH Faculty Researcher) developed a comprehensive report on “Harness Suspension: A Working at Heights Organizational Analysis” that involved consulting with **190** working at heights training providers across Ontario.



CROSH student member George Flagler played an integral role in this project.



Only 6% of existing training plans are correct



Among other results, the authors found that only 6% of working-at-heights training plans from Ontario working-at-heights trainers were correct in regards to positioning of workers during post-suspension rescue.

Funded by a **NSERC USRA** (Undergraduate Student Research Award)

The full report, associated infographics, and George's presentation on the topic are available at crosh.ca/resources/harness-suspension



INTERNATIONAL DAY OF WOMEN AND GIRLS IN SCIENCE

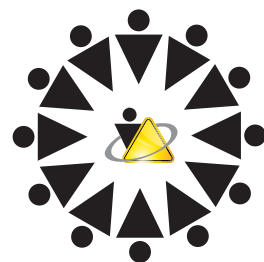
CROSH was proud to help organize our local International Day of Women and Girls in Science activities for another year. The goal of the event was to inspire girls to pursue careers in science and science-related trades and to encourage boys to see women as their future colleagues in these careers. This year the event was entirely virtual and hosted on the CROSH website. Including contributions from several CROSH members, there were over 30 videos highlighting women in STEMM (Science, Technology, Engineering, Math, and Medicine). In total, the videos received more than 1100 views. In addition to faculty and staff from Laurentian University, we partnered with Cambrian College and Science North for the event.

32 Videos
1100+ Views

You can checkout the all the videos and activities at crosh.ca/idwgs-2021.



STAYING CONNECTED



We worked hard to stay connected in the face of the challenging virtual work and school environment. The CROSH team supported each other with Check-in-and-Chats and Virtual Writing Workshops every week. We also had special social events like our virtual paint night, pictured.



NATIONAL DAY OF MOURNING



On April 28th, the National Day of Mourning, we remembered and honoured those who have been killed, injured, or made ill due to their work, and we re-committed to preventing workplace injuries and deaths. This year, like last year, the ceremony was virtual.

OUR STUDENTS ON OHS AND NORTHERN ONTARIO

In Ontario, occupational diseases are critical issues and prevention is a key pillar in health and safety strategy. Therefore, occupational health and safety research is essential to prevention strategies that work towards eliminating occupational hazards and diseases. Education awareness will help foster changes that are necessary to ensure workers in industries such as mining, trades and pulp and paper across Northern Ontario are provided with a safe working environment and return home safe every day. Workers in industry in Northern Ontario face unique health and safety challenges; therefore it is necessary to engage and collaborate with local communities to address their unique requirements.

Sara Gauthier, Undergraduate Student

OHS research is important for Northern Ontario industries because these industries help families across Northern Ontario. As someone who has grown up in Timmins, Ontario, I know how valuable miners are to our community. However, I have also seen how workplace injuries can cause negative effects to the miner, their workplace, their family, and their community. By researching OHS in Northern Ontario industries, we are ensuring that workers and their families are safe and healthy for a long time.

Margaret Kanya-Forstner, Master's Student

OHS research, in partnership with industries and workers, plays a critical role in identifying and addressing workplace hazards. Deconstructing health and safety issues and finding solutions to mitigate risks is crucial in ensuring every worker goes home healthy and safe. Despite significant progress in OHS, many hazards remain unknown or poorly understood, and new hazards are constantly emerging, especially with new technology. It is therefore important that OHS research be ongoing so that we can continue to strive for healthy and safe workplaces. As a novice OHS researcher, I consider it a privilege to be part of CROSH and to learn from experienced OHS researchers. CROSH plays a very important role in making Northern Ontario workplaces healthier and safer, and I am grateful for all the learning opportunities this provides.

Caroline Dignard, PhD Candidate

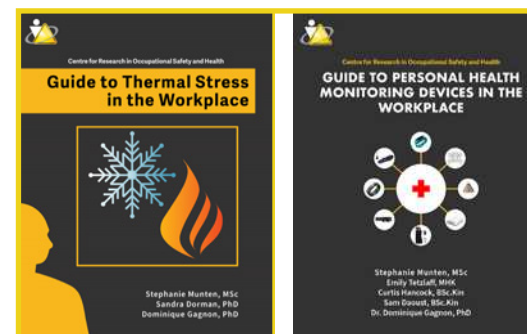
SERVICES

In order to help us achieve our strategic objective of self-generating 25% of our operational costs by 2023, CROSH provides a variety of collaborative, occupational health and safety-related services to workplaces and industries in Northern Ontario and beyond. Our services include:

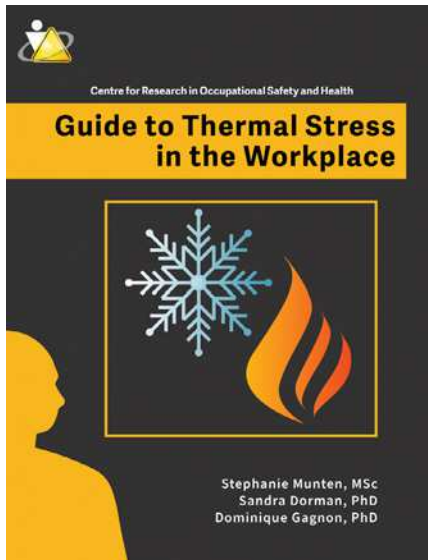
- CROSH Subscription Service
- Collaborative Applied Research
- Fitness Assessments
- Workplace Simulator (W-SIM) Services
- Mobile Research Lab (M-CROSH) Services
- CROSH Webinars and Conferences
- Guidebooks
- Knowledge Transfer Kits



Visit us online to learn more at crosh.ca/services.



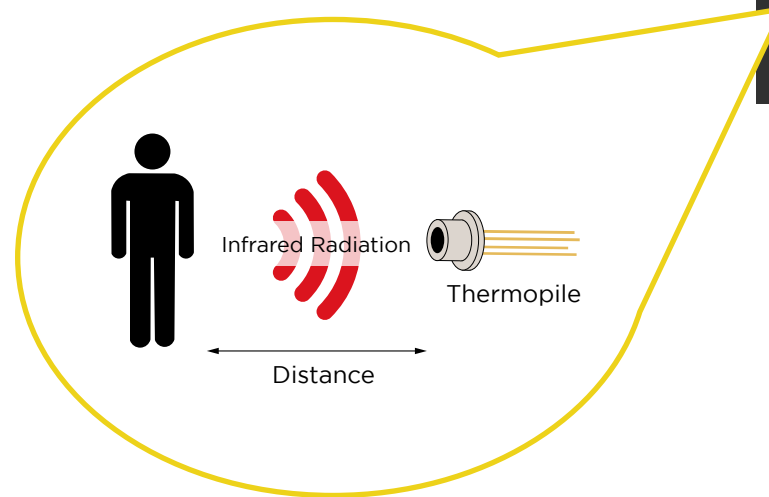
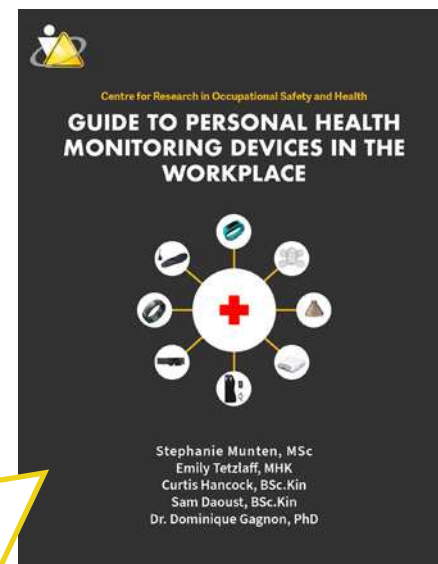
GUIDEBOOKS



Written by Stephanie Munten, Dr. Sandra Dorman, and Dr. Dominique Gagnon, CROSH's **Guide to Thermal Stress in the Workplace** was developed to provide information about the health effects of workplace thermal hazards and the safety measures or controls that can be implemented to prevent or manage exposure to them. It is currently available for free on our website.

Download both guidebooks at crosh.ca/resources

CROSH's second guidebook released this year was our **Guide to Personal Health Monitoring Devices in the Workplace**. Written by Stephanie Munten, Emily Tetzlaff, Curtis Hancock, Sam Daoust, and Dr. Dominique Gagnon, this guidebook provides information on the wealth of health monitoring devices currently on the market, focussing on how they work and how they can be used to monitor health and physiological responses in the workplace



Example graphic from the guidebook.

WEBSITE

The CROSH website is a bustling hub of occupational health and safety activity with thousands of visitors every month. **We are proud to report that this year we updated our website to become WCAG 2.0 Level AA compliant, in accordance with the Accessibility for Ontarians with Disabilities Act (AODA).** This means that our content is more accessible to more of our stakeholders, partners, and members. From member profiles to student and career opportunities to knowledge translation materials to the services we offer, crosh.ca is CROSH's presence on the internet.

See all that we have to offer at crosh.ca



SOCIAL MEDIA

We maintain an active presence on social media, sharing CROSH news, member success stories, knowledge translation materials, and timely safety tips. We encourage you to follow us to see what we are up to on a daily basis.



@CROSH_CR SST



@CROSHatLU



@crosh_crsst



Centre for Research in Occupational Safety and Health

Click on an icon to visit one of our social media profiles!

IN THE MEDIA

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RESEARCH HIGHLIGHTS

3 Posters

10 Seed Grant Projects

14 Published Abstracts

16 Technical Reports

23 Workshops and Training Sessions

27 Invited Presentations

28 Book Chapters and Books

50 Presentations and Proceedings

105 Peer Reviewed Published Journal Articles

POSTERS

Lamarche, B.A., Thomsen, J.S., Andreasen, C.M., Andersen, T.L., **Lievers, W.B.** Trabecular bone structural units (BSU) in the lumbar spine decrease in size with age and bone volume fraction. Poster presented at the American Society of Bone and Mineral Research (ASBMR2020) Conference. September 11-15, 2020: Seattle, Washington [Online due to COVID-19].

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Adisesh, A., Chattu, V., Dano, S., Edwards, N., & Mucsi, I. (2021). Understanding the association between treatment modality versus employment status among patients with organ failure. EPICOH 2021 (submitted)

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Munten, S., Menard, L., Gagnon, J., & **Dorman, S.C.,** Mezouari, A., **Gagnon, D.D.** (2020). High-intensity interval exercise in the cold regulates acute and postprandial metabolism. Applied Physiology, Nutrition and Metabolism. 45(10 Suppl. 2), S312.

Munten, S., Serresse, C., **McCue, A., & Gagnon, D.D.** (2020). Effect of temperature on post-exercise mitochondrial capacity with near-infrared spectroscopy. Applied Physiology, Nutrition and Metabolism. 45(10 Suppl. 2), S312.

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WORKSHOPS AND TRAINING SESSIONS



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- Dorman, S.C.** (2020). CROSH COVID Conversations Part 3: Breaking the chain of infection in the workplace. October 15th. Centre for Research in Occupational Safety and Health, Laurentian University, Sudbury, Ontario. (Live and Recorded Webinar).
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- Dorman, S.C.** (2021). Heart Healthy. CROSH Webinar. May 28, 2020.
- Dorman, S.C.** (2021). Respiratory Protection: Police Services, Canada. February 22 & 26, 2021
- Dorman, S.C.** (2021). Fatigue Management: Understanding your Sleep Needs in context of Work, Work-Life Balance and Risk. Virtual Wellness Fair: March 3, 2021.
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- Godwin, A.** (2020). Update on line-of-sight research. Wood Products Manufacturing BC and Workplace Safety North Co-Committee.
- Goggins, K.** (2020). CROSH COVID Conversations Part 1: Screening and tracking for workplaces. October 1. Centre for Research in Occupational Safety and Health, Laurentian University, Sudbury, Ontario. (Live and Recorded Webinar).
- Kerekes, Zs.** (2020). From stress experience to PTSD – A perspective on stress experience during the pandemic. Sudbury, Canada, CROSH, LU Webinar Series, May 27, 2020.

- Kerekes, Zs.** (2020). Mental health and stress management. Ontario Mining Association (OMA) webinar, November 3, 2020 Sudbury, ON, CROSH, LU
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- Kinkar, E.** (2020). CROSH COVID Conversations Part 3: Breaking the chain of infection in the workplace. October 15th. Centre for Research in Occupational Safety and Health, Laurentian University, Sudbury, Ontario. (Live and Recorded Webinar).
- Leduc, M.** (2020). Home Office Ergonomics: Workstation Set-Up Session. School of Public Health. University College Cork. (Cork, Ireland).
- Merritt, T.J.S.** (2020). CROSH COVID Conversations Part 2: Managing the flow in the workplace. October 8. Centre for Research in Occupational Safety and Health, Laurentian University, Sudbury, Ontario. (Live and Recorded Webinar).
- Mongeau, S.** (2020). Partners in Convention 2020 – Health and Safety Virtual Conference. October, 2020
- Mongeau, S.** (2020.) OHCOW – Knowledge Mobilization for Occupational Disease Prevention. October, 2020
- Pegoraro, A.** (2020). CROSH COVID Conversations Part 4: Crisis and opportunity in the workplace. October 22. Centre for Research in Occupational Safety and Health, Laurentian University, Sudbury, Ontario. (Live and Recorded Webinar).
- Quesnele, J.** Continuing medical education (CME), Workshop development and delivery. Concussion and Primary Care, NOSM, Northern Ontario – 2019-present.
- Quesnele, J.** Community learning sessions (CLS), Division of Clinical Sciences, NOSM, Northern Ontario – 2016-present.
- Tremblay, L.** Expert on a Panel discussion entitled Let's talk about COVID, organized by Laurentian University Research Office and Science North Sudbury on November 25, 2020.
- Trottier, P.** (2020). CROSH COVID Conversations Part 1: Screening and tracking for workplaces. October 1. Centre for Research in Occupational Safety and Health, Laurentian University, Sudbury, Ontario. (Live and Recorded Webinar).
- Vance, B.** (2021). Webinar: Safety and Health Week Webinar – NOCA (Northeastern Ontario Construction Association) Health and Safety Committee. May 6, 2021.

INVITED PRESENTATIONS



Adishes, A. (2020). PreventOccDisease Physicians' Toolkit. October Conference, 2020 Toronto, October 30, 2020.

Bond, R. (2020). Disability management and return to work. Occupational Health and Safety Management systems, Cambrian College, Sudbury, Ontario

Bond, R. (2020). The PDAC-AME survey of health and safety in mineral exploration. Eastern and Western Annual Safety Meeting, Canadian Diamond Drilling Association.

Cormier, J. & Young, W. (2020). Accelerometer and rotopod calibration. CROSH Crafé, Laurentian University.

D'Angelo, J. (2020). MHK student life overview. Recruitment/information session for graduate studies, Laurentian University.

D'Angelo, J. (2020). Methods in current research. PHED 2216 Research Methods, Laurentian University.

Dignard, C. (2020). Research Brief. Stress, Anxiety, and Depression among Mining Workers: Understanding the correlates of Mental Health and Wellbeing. Dr. Larivière & Associates Staff Retreat, June 2020.

Dignard, C. (2020). Stress, Anxiety, and Depression among Mining Workers: Understanding the correlates of Mental Health and Wellbeing – A Thesis Proposal Example. Guest Lecture for IRNH 6056 Research Seminar, Laurentian University, November 2020.

Dignard, C. (2020). Mental Health in the Workplace. Guest Lecture for PHED 3146 - Health Promotion in the Corporate Setting, Laurentian University, March 2021.

Dorman, S.C. (2021). Heart month webinar: Work-related heart disease. Occupational Health Clinics for Ontario Workers, February 24, 2021

Dorman, S.C. (2020). The air we breathe. Goodman School of Mines, September 16, 2020.

Eger, T. & Moskalyk J. (2020). What we learned from 100 Women Leaders: Lessons in Leadership and Communication, CIM Sudbury Branch Webinar - November GMM, November 19, 2020.

Eger, T. (2020). Despite what the Beach Boys say, not all vibrations are good! Soapbox Science 2020, November 18, 2020.

Flagler, G. (2020). Harness suspension: A WAH training provider analysis. Partners Knowledge Exchange Group.

Gauthier, S. & Pretty, T. (2020). Reach Accès Zhibbi. Community Learning Session, Northern Ontario School of Medicine, Sudbury, ON, November 3, 2020.

Gohar, B. (2020). From contaminations to staff shortages: Conceptualizing sickness absenteeism among healthcare staff. Public Services Health & Safety Association: Return-to-Work after COVID-19, June 2020.

Goggins, K. (2020). Statistics: The big picture. 2-hr lecture online graduate student presentation. Centre for Research in Occupational Safety and Health, Laurentian University, November 3, 2020.

Goggins, K. (2020). Literature reviews: types and how to. 2-hr lecture online graduate student presentation. Centre for Research in Occupational Safety and Health, Laurentian University, October 27, 2020.

Horrigan, J., Berquist, R., Rigg, L. & Dugas, J., & Akpomi-Eferakeya, O. (2020). Violence against nurses: It is not part of the job! Annual Collaborative Meetings, Laurentian University School of Nursing, May 12-14, 2020.

Kerekes, Zs. (2020). Mental health and stress management during COVID-19 in the mining industry. Minesafe International Digital Conference, Ausimm, September 21-24, 2020.

Leduc, C. & Dorman, S. (2020). Psychological health and safety in wildland firefighting. BC Wildfire Service, Ministry of Forests, Lands, Natural Resource Operations and Rural Development, December 11, 2020

Mehboob, R. (2020). Workplace Incident Investigation. Institution of Occupational Safety & Health (IOSH) Qatar Branch.

Mehboob, R. (2020). Knowledge translation gap in ergonomics practice. Ergo@Large (Association of Canadian Ergonomics).

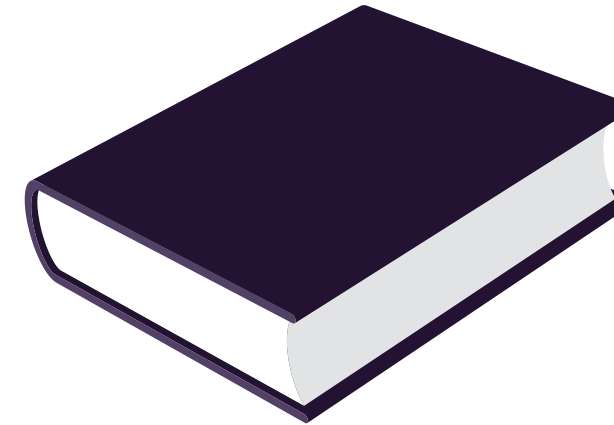
Pegoraro, A. (2020). Making the Play, Diversity & Inclusion in Sport. Dan Aandrade Presidential Lecture Series, Laurentian University.

Pegoraro, A. (2021). Keynote, Bishop University Sport Studies Congress, April 21, 2021.

Tetzlaff, E. (2021). Health and safety incident trends analysis: a 7-year review. Torex Gold Resources Inc. Board of Directors: Toronto, Ontario, February 17, 2021.

Trottier, P. (2020). Understanding technology backups. 1.5-hr lecture. Centre for Research in Occupational Safety and Health, Laurentian University, March 30, 2021.

BOOK CHAPTERS AND BOOKS



Darvin, L. & **Pegoraro, A.** (in press) Ethical relativism and sport mega-event gendered discourses: sensitivity towards the dominant play of women in sport in Dashper, K. ed. Gender, Sport and Mega-Events.

Dignard, C., Larivière, M., Larivière, C., & Schoenenberger, S. (In press). Spécificité du contexte canadien sur les questions de santé psychologique au travail : arrêt maladie, retour en poste et stress financier. In Piermattéo, A., Cléty, H., Demarrey, C., Schoenenberger, S. (Eds.), Qualité de vie et santé au travail : théorie et pratiques. Presses Universitaires du Septentrion Villeneuve d'Ascq cedex, France.

Eger, T., & Müller, K. (2020). Breaking the Ice: Reflections on our Leadership Expedition to Antarctica with 99 Women in STEMM. In Moeke-Pickering, T., Cote-Meek, S., and **Pegoraro, A.** (Eds). Critical Reflections and Politics on Advancing Women in the Academy. DOI: 10.4018/978-1-7998-3618-6

Houston, C.*, Smith, T.*, Rich, K. & **Pegoraro, A.** (in press) "I want justice and more": Loreto, Carcillo, and dominant narratives of hockey culture on Twitter Overcoming the Neutral Zone Trap. MacDonald, C. and Edwards J. eds

Kinkar, E., & Saleh, M. (2020). The secretomes of extremophiles. In Physiological and Biotechnological Aspects of Extremophiles (pp. 285-294). Academic Press.

Kristman, V. L., Boot, C. R., Sanderson, K., **Sinden, K. E.,** & Williams-Whitt, K. (2020). Implementing Best Practice Models of Return to Work. In Handbook of Disability, Work and Health, 1-25. Publisher: Springer Nature in Occupational Health Sciences.

McGannon, K.R. (forthcoming, 2021). Getting back on the track: An ethnodrama of an elite runner's journey through motherhood. In L. Spowart & K. R. McGannon (Eds.), *Motherhood and sport: Collective stories of identity and difference*. London: Routledge, Taylor & Francis.

McGannon, K.R. & McMahon, J. (2021). (Re)assembling 'balance': A creative non-fiction of athlete mothers negotiating sport and family. In F. Cavallerio (Ed.), *Once upon a time: Using creative non-fiction in sport research*. London: Routledge.

McGannon, K.R. & McMahon, J. (2020). Sport media research: Examining the benefits for sport injury psychology and beyond. In R. Wadey (Ed.), *Sport injury psychology: Cultural, relational, methodological and applied considerations* (pp. 25-35). London: Routledge.

McGannon, K.R., McMahon, J., & Graper, S. (forthcoming 2021). Narrative as a cultural approach for understanding motherhood and sport on Instagram. In J. Sanderson (Ed.), *Sport, social media and digital technology: Sociological approaches*. Bingley, UK: Emerald Publishing.

McGannon, K.R., McMahon, J., & L'Estrange, M. (2020). A cultural perspective on growth following adversity: Using autobiography to understand addiction recovery through sport. In M. Day, R. Wadey & K. Howells (Eds.), *Growth following adversity in sport* (pp. 75-87). London: Routledge.

McGannon, K.R. & Smith, B. (2020). Self-identity: Discursive and narrative conceptions and applications. In R.J. Schinke & D.Hackfort (Eds.), *International encyclopaedia of sport psychology: Vol. 1, Theoretical and methodological concepts*. London: Routledge.

McGannon, K.R. & Spowart, L. (forthcoming, 2021). Future directions for research into motherhood and sport. In L.Spowart & K.R.McGannon (Eds.), *Motherhood and sport: Collective stories of identity and difference..* London: Routledge, Taylor & Francis.

McMahon, J. & **McGannon, K.R.** (2020). Slim-to win to injury: How swimmers are engaging with 'health risk' culture due to entrenched body ideals. In R. Wadey (Ed.), *Sport injury psychology: Cultural, relational, methodological and applied considerations* (pp. 74-84). London: Routledge.

McMahon, J. & **McGannon, K.R.** (forthcoming 2021). Sport and health risk culture. In J. Sanderson & M. Weathers (Eds.), *Health communication and sport: Connections, applications and opportunities*. Maryland, US: Lexington Press.

McMahon, J., **McGannon, K. R.**, & Zehntner, C. (forthcoming, 2021). The impact of selection and deselection on athlete wellbeing in Australian women's cycling. In N. Campbell, A. Brady, & A. Smith (Eds.), *Developing and supporting holistic wellbeing for athletes: Person first, athlete second*. London: Routledge.

Moeke-Pickering, T., Rowat, J.*, Cote-Meek, S., & **Pegoraro, A.** (2020) Indigenous social activism using Twitter: Amplifying voices using #MMIWG in Berglund, J. & Carlson, B. eds *Indigenous Peoples Rise Up: the Global Ascendancy of Social Media Activism* NJ: Rutgers University Press

Munten, S., Dorman, S.C., & Gagnon, D.D. (2021). Guide to thermal stress in the workplace. Centre for Research in Occupational Safety and Health. Available at: <https://crosh.ca/resources/guidebooks/guide-to-thermal-stress-in-the-workplace/>.

Munten S., Tetzlaff E., Hancock C., Daoust S., & Gagnon D.D. (2021). Guide to personal health monitoring in the workplace. Available at <https://crosh.ca/resources/guidebooks/guide-to-personal-health-monitoring-devices-in-the-workplace/>.

Nowrouzi-Kia, B. & Touma, Z. (2021). Work disability and prevention in SLE: A focus on assessment and function. *Systemic Lupus Erythematosus*. Toronto, ON: Elsevier Canada (In Press).

Pegoraro, A. & Fredericks, E. (under review) Social Media and Crisis Communication in Sport in Abeza, G., O'Reilly, N., Sanderson, J. & Frederick, E. (Eds) *Social Media and Sport*

Pegoraro, A. (invited) Digital Sport Fandom in Coombs, D. and Osbourne, A. (Eds) *Routledge Handbook of Sport Fans and Fandom*

Pegoraro, A. & Lebel, K. (in press) Social Media and Sport Marketing in Butterworth, M. (Ed) *Handbook of Communication and Sport*, Mouton de Gruyter

Pelltier, S.* & **Pegoraro, A.** (invited) Social Media as Counterspace in Ansloos, J., Caranto Morford, A. and Gaertner, D. (eds) *#NativeTwitter: Indigenous Networks of Relations and Resistance*

Smith, B. & **McGannon, K.R.** (forthcoming 2021). Translating qualitative inquiry: Coproduction and the politics of impact. In N.K. Denzin, Y.S. Lincoln, G.S. Cannella, & M.D. Giardina (Eds.), *The Sage handbook of qualitative research* (6th edition). London: Sage.

Spowart, L. & **McGannon, K.R.** (Eds.) (forthcoming, 2021). *Motherhood and sport: Collective stories of identity and difference*. London: Routledge, Taylor & Francis.

Spowart, L. & **McGannon, K.R.** (fortcoming, 2021). Introduction: Contextualizing motherhood and sport. In L.Spowart & K.R.McGannon (Eds.), *Motherhood and sport: Collective stories of identity and difference*. London: Routledge, Taylor & Francis.

Kumar, C., Kumary, S., and Adisesh, A. Economics of COVID-19; Book Chapter for Technology section – IX. Title: Global digital health strategy in the post-COVID-19 era. Adhyayan Publishers, New Delhi, 2020.

PRESENTATIONS AND PROCEEDINGS



Adishes, A. (2021). Occupational Medicine Society of Canada, Annual Scientific Conference “Occupational Medicine and the COVID-19 Pandemic” organising committee and session moderator, February 5-6, 2021.

Adishes, A. (2020). EPICOH 2020 Montreal Workshop organiser and presenter: Minisymposium “A Road Map for Artificial Intelligence and Occupational Health in the 21st Century”, accepted presentation “The automated semantic occupation coding algorithm and the wider application of AI in occupational health”. (Cancelled due to COVID, accepted 2021).

Akpomi-Eferakeya, O. & Horrigan, J., Heale, R., & Donato, E. Nurses’ perceptions of the utilization of the violence assessment tool (VAT). The Dalla Lana School of Public Health’s Student-Led Conference: Moving beyond repair: Upstream approaches to public health emergencies. Virtual Conference University of Toronto, November 12-14, 2020

Akpomi-Eferakeya, O. & Horrigan, J., Heale, R., & Donato, E. Nurses’ perceptions of the utilization of the violence assessment tool (VAT) in Northeastern Ontario. Canadian Health Workforce virtual Conference 2020. December 9-10, 2020

Akpomi-Eferakeya, O. (2021). Prevention of workplace violence among nurses in Northeastern Ontario. CROSHCon: Our Students Today, Your Safety Professionals Tomorrow. Centre for Research in Occupational Safety and Health, Sudbury, ON: January 22, 2021. [Supervisor: Dr. Judith Horrigan]

Akpomi-Eferakeya, O. Horrigan, J., Heale, R., & Donato, E. (2021). Prevention of workplace violence among nurses in Northeastern Ontario; The use of the violence assessment tool. Presented virtually at the Laurentian University Graduate Student Association (GSA) graduate research symposium, 12- 16 April, 2021.

Armstrong, C., Davies, M., **Pegoraro, A.** & Blaszk, M. (2020). Release the Kraken: An analysis of a virtual brand launch during a global pandemic. Sport Management Association of Australia and New Zealand virtually: November 30 - December 4, 2020.

Aziziderouei M. & Sinden K.E. (2020). Scoping review of knowledge translation theories in ergonomic research. Canadian Bone and Joint Conference. June 12, 2020.

Bakhsh, J., Kennedy, H., Taks, M., & **Pegoraro, A.** (2021). Construct Validity of Social Media Impact Experience Scales for Sport Events 13th Summit on Communication and Sport Virtual: March 3-7, 2021.

Bond, R. (2021). Exploring historical accident data Is critical to better protecting ourselves moving forward. CROSHCon: Our Students Today, Your Safety Professionals Tomorrow. Centre for Research in Occupational Safety and Health, Sudbury, ON: January 22, 2021. [Supervisor: Dr. Alison Godwin]

Bundon, A., **McGannon, K.R.,** Couture, J., Olive, R., & Goodyear, V.A. A quarter century of progress? The past, present and future of digital qualitative work. Panel at the 7th International Qualitative Research Conference in Sport and Exercise, Durham, UK, July, 2020. *accepted but not presented due to conference cancellation from the COVID-19 pandemic.

Chadha S., **Beckett-Brown B., Dorman S.C., Merritt T., & Gagnon D.D.** (2020). Plasma metabolome and pathway integrated analysis of acute mild thermal stress at rest. Applied Physiology, Nutrition, and Metabolism (suppl 3).

Cormier, J. (2021): Developing modern OHS training materials, a NORCAT internship. CROSHCon: Our Students Today, Your Safety Professionals Tomorrow. Centre for Research in Occupational Safety and Health, Sudbury, ON: January 22, 2021. [Supervisors: Dr. Tammy Eger & Dr. Katie Goggins]

Daoust S. & Gagnon D.D. (2020). Maximal fat oxidation in the cold: a reliability and energy metabolism pilot study. Applied Physiology, Nutrition, and Metabolism (suppl 3).

Doan, A. (2021). Medical device user interfaces – A hidden burden. CROSHCon: Our Students Today, Your Safety Professionals Tomorrow. Centre for Research in Occupational Safety and Health, Sudbury, ON: January 22, 2021. [Supervisor: Dr. Ratvinder Grewal]

Dodaro, A. (2020). COVID-19 controls in place at Ontario Mining Association companies. Mine-safe International Digital Conference. September 2020.

Dignard, C. (2021). Stress, anxiety, and depression in mining. CROSHCon: Our Students Today, Your Safety Professionals Tomorrow. Centre for Research in Occupational Safety and Health, Sudbury, ON: January 22, 2021. [Supervisor: Dr. Michel Larivière]

Dorman, S.C. (2020). Diesel particle deposition. Annual Symposium on Occupational Health and Disease Prevention. October 5, 2020.

Dorman, S.C. (2020). Diesel particle deposition in the airways and the induction of inflammation. Mining Diesel Emissions Council Conference. October 6, 2020.

Dorman, S.C. (2020). You are what you eat...literally. Workplace Safety Prevention Services Conference. October 21, 2020.

Dorman, S.C. (2021). Breaking the Chain of Infection. Workplace Safety North Conference.

Eger, T. (2021). Keynote Address: Occupational Vibration Exposure Characteristics, Health Risks, and Prevention Strategies. 3rd International Iranian Ergonomics Conference and the 4th Biennial Iranian Conference on Ergonomics (BICE4), Shiraz/Iran, March 3, 2021.

Frederick, E. & **Pegoraro, A.** (2021). I'm not going to the f***ing White House:" Twitter reacts to Donald Trump and Megan Rapinoe 13th Summit on Communication and Sport Virtual: March 3-7, 2021.

Flagler, G. (2021). Harness suspension: A WAH training provider analysis. CROSHCon: Our Students Today, Your Safety Professionals Tomorrow. Centre for Research in Occupational Safety and Health, Sudbury, ON: January 22, 2021. [Supervisor: Dr. Sandra Dorman]

Gagnon D.D., et al. (2020). Exercise intensity regulates the influences of muscle cooling on oxygen kinetics. Applied Physiology, Nutrition, and Metabolism (suppl 3)

Gauthier, S. (2021). Accuracy of workplace COVID-19 screening protocols. CROSHCon: Our Students Today, Your Safety Professionals Tomorrow. Centre for Research in Occupational Safety and Health, Sudbury, ON: January 22, 2021. [Supervisor: Dr. Alison Godwin]

Gauthier, S. (2021). Use of virtual reality to increase awareness of line-of-sight hazards around industrial equipment. 4th year Kinesiology Thesis, April 2021 [Supervisor: Dr. Alison Godwin]

Gholami, N. (2021). Reporting on different tools and measurements used to detect heat strain in wildland firefighting. CROSHCon: Our Students Today, Your Safety Professionals Tomorrow. Centre for Research in Occupational Safety and Health, Sudbury, ON: January 22, 2021. [Supervisor: Dr. Sandra Dorman]

Goggins, K. (2021). Establishing a Research Partnership – Our students today, your safety professionals tomorrow. 1-hr keynote address. CROSHCon: Our Students Today, Your Safety Professionals Tomorrow. Centre for Research in Occupational Safety and Health, Sudbury, ON: January 22, 2021.

Harker, J., Pratt, A., Lebel, K., & **Pegoraro, A.** (2021). #GenderGap - Voices of Women Faculty in Sport Communication 13th Summit on Communication and Sport Virtual: March 3-7, 2021.

Hums, M., Frederick, E., **Pegoraro, A.**, Seigfried, N*, & Wolff, E. (2021). What's in a Name? Examining Reactions to Major League Baseball's Change from the Disabled List to the Injured List via Twitter 13th Summit on Communication and Sport Virtual: March 3-7, 2021.

Kanya-Forstner, M., Goggins, K., Godwin, A., Yantzi, N., & Eger, T. (2021). Assessing whole body vibration in children's bicycle trailers. 8th American Conference on Human Vibration. June 23-25, 2021.

Lamarche, B.A., Thomsen, J.S., Andreasen, T.L., & **Lievers, W.B.** Changes with age in the trabecular bone structural units (BSU) of the lumbar spine. Oral presentation at the Northern Research Health Conference (NHRC2020). October 2, 2020: Sudbury, Ontario [Online due to COVID-19]. https://youtube/YYdS_wzDYSM

Lebel, K., **Pegoraro, A.** & Harman, A. (2021). We Don't Know What We Don't Know: An Assessment of the Awareness of Women in Sport 13th Summit on Communication and Sport Virtual: March 3-7, 2021.

Leduc, C., Giga, S., Fletcher, I. & Dorman, S. (June 2020). A systematic review of workplace-based interventions utilizing the Job Demands-Resources (JD-R) Theory. Institute of Work Psychology International Conference 2020, Sheffield, UK.

Lightfoot N., Young N., Yantzi N., Sigurdson C., Higgins Z.E., **Mongeau S.,** Morrison K., & Worthington, P. Experience and suggestions for preparing for accreditation of a health-related university program. Northern Health Research Conference, Sudbury, Ontario, October 2, 2020.

Lightfoot N, Manitowabi D, **Barnett N,** C Nootchai, ML Odjig, J Moulton, MacEwan L, **Lariviere M, Eger T,** Holness D, Fongemy, J., **Kerekes, Z.,** Arrandale, & V. Minonokiiwin. Advancing an understanding of Indigenous occupational health, safety, and compensation experience in Northern Ontario. XXII World Congress on Safety and Health at Work 2020: Global Forum for Prevention, Toronto, Ontario, October 4-7, 2020 (submitted; date to be determined due to Covid-19).

McGannon, K.R. (Re)Storying embodied performances of sport and motherhood: A creative non-fiction approach. Presentation at the 7th International Qualitative Research Conference in Sport and Exercise, Durham, UK, July, 2020. *accepted but not presented due to conference cancellation from the COVID-19 pandemic.

Mongeau S, Lightfoot N, MacEwan L, & **Eger T.** Mining-related lower back injuries and the compensation process: an injured worker's journey. Mining Health and Safety Conference, Sudbury, Ontario, April 13-15, 2021.

Munten, S., Menard, L., Gagnon, J., **Dorman, S.C.**, Mezouari, A., & **Gagnon, D.D.** (2020). High-intensity interval exercise in the cold regulates acute and postprandial metabolism. Free Communication presented at CSEP, Online Conference. October, 2020.

Munten S., Serresse C., & **Gagnon D.D.** (2020). Effect of temperature on post-exercise mitochondrial capacity with near-infrared spectroscopy. *Applied Physiology, Nutrition, and Metabolism* (suppl 3)

Munten S., Menard L., Gagnon J., **Dorman S.C.**, Mezouari A., & **Gagnon D.D.** (2020). High-intensity interval exercise in the cold regulates acute and postprandial metabolism. *Applied Physiology, Nutrition, and Metabolism* (suppl 3)

Quenneville D., Oddson B., Neary J.P., Hartly G., & **Gagnon D.D.** (2020). Effects of controlled respiration on bilateral cerebral oxygenation in humans. *Applied Physiology, Nutrition, and Metabolism* (suppl 3)

Quenneville D., Oddson B., Neary J.P., Hartly G., & **Gagnon D.D.** (2020). Effects of controlled respiration on bilateral cerebral oxygenation and arterial blood pH in post-traumatic stress disorder in humans: A pilot study. *Applied Physiology, Nutrition, and Metabolism* (suppl 3)

Taks, M., Bakhsh, J. & **Pegoraro, A.** (2020). Service and Data Quality Control of Platforms Collecting Panel Member Data. European Association for Sport Management: September 17-25, 2020.

Taks, M. & **Pegoraro, A.** (2020). The Role of Social Media in Social Impacts Experiences of Sport Events. North American Society for Sport Management.

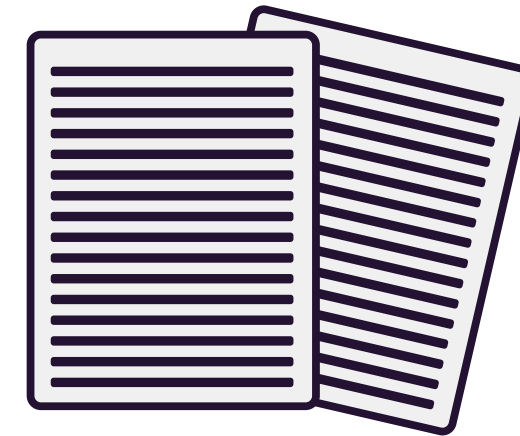
Tetzlaff, E. (2021). Big Data Mining in the Mining Industry. CROSHCon: Our Students Today, Your Safety Professionals Tomorrow. Centre for Research in Occupational Safety and Health, Sudbury, ON: January 22, 2021. [Supervisor: Dr. Dom Gagnon]

Tetzlaff, E. & Alem, J. (2021). A cross-cultural comparison of caregiver load associated with familial dementia care based on the Zarit burden scale in North Africa, Asia and Europe: a pilot study. My Thesis in 180 Seconds: April 3, 2021.

Tremblay, L., Kosmerly, S., & **Larivière, C.**, (accepted-2020 to be presented in 2021). "Exercise Addiction, Muscle and Weight Satisfaction, and Disordered Eating, as Predictors of Overtraining in Male Bodybuilders". Paper to be presented to 81st Annual National Convention of the Canadian Psychological Association, May 28th to 31st 2020, Montreal, QC, Canada, cancelled because of Covid-19.

Whitney, J. (2021). Analysis of return to sport protocols amidst the COVID-19 pandemic. CROSH-Con: Our Students Today, Your Safety Professionals Tomorrow. Centre for Research in Occupational Safety and Health, Sudbury, ON: January 22, 2021. [Supervisor: Dr. Alison Godwin]

PEER-REVIEWED PUBLISHED JOURNAL ARTICLES



Aaron, M., Orkin, A.M., Sampreeth Rao, S., Venugopal, J., Kithulegoda, N., Wegier, P., **Ritchie, S.D.**, VanderBurgh, D., Martiniuk, A., Fabio Salamanca-Buentell, F., & Upshur, R. (2021). Conceptual framework for task shifting and task sharing: an international Delphi study. *Human Resources for Health*. 19(61). DOI: 10.1186/s12960-021-0605-z.

Adishes, A., Durand-Moreau, Q, Patry, L, & Straube, S. (2020). COVID-19 in Canada and the use of Personal Protective Equipment. *Occupational Medicine*. Acceptance date: 2020-05-18 PAP: <https://doi.org/10.1093/occmed/kqaa094>

Aubin, D., Lightfoot, N., Gauthier, A., Cote, D., & Arrandale, V. (2021). Underground workers who received aluminum dust prophylaxis and its personal impact. *Diversity of Research in Health Journal*. (4):172-184. DOI: 10.28984/drhj.v4i1.314

Autio J., Stenback V., **Gagnon D.D.**, Leppaluoto J., & Herzig K.H. (2020) (Neuro) peptides, physical activity, and cognition. *Journal of Clinical Medicine*. 9(8) doi:10.3390/jcm9082592

Barrette, R., & Grewal, R. (2021). Adaptive User Interfaces and the Use of Inference Methods. *Computational Science and Techniques*, 8, 616-624. ISSN 2029-9966

Bennison, M.B.M., Pilkey, A.K., & **Lievers, W.B.** (2021). Misalignment error in cancellous bone apparent elastic modulus depends on bone volume fraction and degree of anisotropy. *Journal of Biomechanical Engineering*, 143(2), 021005. DOI: 10.1115/1.4047679

Bhaskar, S., Bradley, S., Chattu, V.K., **Adishes, A.**, Nurtazina, A., Kyrykbayeva, S., et al. (2020) Telemedicine Across the Globe-Position Paper From the COVID-19 Pandemic Health System Resilience PROGRAM (REPROGRAM) International Consortium (Part 1). Public Health, Vol 8 DOI:10.3389/fpubh.2020.556720

Bhaskar, S., Bradley, S., Chattu, V.K., **Adishes, A.**, Nurtazina, A., Kyrykbayeva, S., et al. (2020). Telemedicine As The New Outpatient Clinic Gone Digital: Position Paper From The Pandemic Health System RESilience PROGRAM (REPROGRAM) International Consortium (Part 2). Public Health. DOI: 10.3389/fpubh.2020.00410

Briglio, T., Heale, R., Larocque, S., & **Horrigan, J.** (2020). Identification of risk factors for operative vaginal birth: First step in addressing potential psychological birth trauma. Canadian Journal of Nursing Research. Manuscript ID CJNR-20-0168. Recommended for publication (December 2020).

Burton, C., Coles, B., **Adishes, A.**, Smith, S., Toomey, E., Chan, X.-H., Ross, L., & Greenhalgh, T. (2021) Performance and impact of disposable and reusable respirators for healthcare workers during pandemic respiratory disease: a rapid evidence review. Occupational and Environmental Medicine. Published Online First: 27 January. doi: 10.1136/oemed-2020-107058

Chadefaux, D., **Goggins, K.**, Cazzaniga, C., Marzaroli, P., Marelli, S., Katz, R., **Eger, T.**, & Tarabini, M. (2020). Development of a two-dimensional dynamic model of the foot-ankle system exposed to vibration. Journal of Biomechanics. 99, 1-12. DOI: 10.1016/j.jbiomech.2019.

Chattu V.K., **Adishes A.**, & Yaya S. (2020). Canada's role in promoting global health security during the COVID-19 pandemic. Global Health Research and Policy. 5:16. DOI:10.1186/s41256-020-00146-3

Chattu, V.K., Knight, W.A., **Adishes, A.**, Yaya, S., Reddy, K.S., Di Ruggiero, E., Aginam, O., Aslanyan, G., Clarke, M., Massoud, R., & Jha, A. (2021). Politics of disease control and the critical role of global health diplomacy in Africa. Health Promotion Perspectives 11(1):20-31 DOI: 10.34172/hpp.2021.04

Clark D., **Munten S.**, & **Gagnon D.D.** (2021) Exogenous ketone salt supplementation and whole-body cooling do not improve short-term physical performance. Frontiers in Nutrition. Accepted

Daoust S. & **Gagnon D.D.** (2021). Maximal fat oxidation and its corresponding exercise intensity during prolonged exercise in the cold and neutral environments. Journal of Exercise and Nutrition. Accepted

Darvin, L., Mumcu, C., & **Pegoraro, A.** (In press). When virtual spaces meet the limitations of traditional sport: gender stereotyping in NBA2K. Computers in Human Behavior.

Daypuk J, Eng MG, Black I, Levesque D, Petahtegoose J, Slobodian M, Wallis A, Dickinson J, & **Merritt TJS.** 2021. Online Adaptation to "Gotcha! Which fly trap is the best? An introduction to experimental data collection and analysis." CourseSource. <https://doi.org/10.24918/cs.2021.7>

Deibert, S., **Ritchie, S.**, Oddson, B., Michel, G., & **Tetzlaff, E.** (2021). Reflexivity through a yoga class experience: Preparing for my Health Promotion Without Borders excursion to Mongolia. The Qualitative Report 26(5).

The Qualitative Report, 26(5), 1401-1410. <https://doi.org/10.46743/2160-3715/2021.4371>.

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FUNDING ACKNOWLEDGMENT

This Centre receives funding through an investment provided by the Ministry of Labour, Training and Skills Development. The views expressed are the views of the Centre and do not necessarily reflect those of the Province.

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