

WORKPLACE SAFETY NORTH VIRTUAL MINING HEALTH AND SAFETY CONFERENCE

Wednesday, April 27, 2022



Conference Program

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#MiningSafety2022

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Versatile, Lightweight and quick to deploy protible monitor!

- > The rotating, swiveling waterway allows the stream to be pointed in virtually any direction without interrupting water flow!
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ENFORCER 200 CAFS SYSTEM:
The Enforcer 200 is a stationary or portable CAFS system that contains 200 gallons of foam solution.

> Extremely versatile 200 gallon portable system that utilizes high energy compressed foam technology to produce up to 4000 gallons of finished foam!

> A wide range of configurations and custom designs are available based on your specific needs!

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GLENCORE



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Welcome!

Thank you for joining the 24th annual Mining Health and Safety Conference. This year, the theme is 'Unearthing the Way Forward' and to keep everyone safe and healthy, it's being held as a one-day online format. The conference features two keynote speakers, as well as a trade show and industry panel.

Dr. Linda Duxbury, human resources, and work-life balance expert, talks about the impact of the COVID-19 pandemic on employees and companies, the importance of organizational culture, and how companies can address this moving forward.

Danny Taillefer, Ontario Mine Rescue Officer, speaks on the three-day mine rescue evacuation; reviewing the events, challenges, and solutions to ensure all mine workers returned home safely to their families.

During the trade show and health breaks, you're invited to visit exhibitors at the Information Exchange Trade Show and network with your colleagues.




The workplace mental health panel, 'Below the Surface,' wraps up the conference with an informal discussion among industry leaders exploring mines and minds.

Our **unwavering safety focus** is built on **our proven safety principles** and is **embraced by our miners.**

WE LIVE BY OUR MOTTO OF
SAFETY – FIRST, LAST AND ALWAYS.

- ✓ Mine Development
- ✓ Shaft Sinking
- ✓ Mass Excavation
- ✓ Production Mining
- ✓ Raiseboring
- ✓ Mechanized Raise Mining
- ✓ Underground Construction
- ✓ Mechanical Excavation
- ✓ Percussive Drilling
- ✓ Engineering and Technical Services
- ✓ Specialty Services

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Your conference host Workplace Safety North – Your health and safety partner

An independent not-for-profit, Workplace Safety North (WSN) is one of four sector-based health and safety associations in Ontario.

Headquartered in northern Ontario, WSN provides province-wide Ministry-approved workplace health and safety training and services for the mining and forest products industries.

With health and safety specialists located across the province, WSN and its legacy organizations have been helping make Ontario workplaces safer for more than 100 years. A leading provider of health and safety training and consulting, businesses call upon WSN for expert advice information.

Services

Safe Workplace Ontario third-party business health and safety certification program, Workplace Safety and Insurance Board Excellence incentive program, business health and safety program and culture audit, and on-site health and safety consulting.

Training

Ministry-approved courses: Joint Health and Safety Committee Certification, Occupational Health and Safety Representative, Working at Heights Safety Training, mining and forestry common core mandatory skills training.



Life matters most.

At Vale, we value life above all else, which is why health and safety is the number one priority in our operations.

Vale is proud to sponsor the Workplace Safety North Mining Health & Safety Conference. We look forward to the opportunity to learn and share experiences with our friends and colleagues.



For a world with new values.

Conference Advisory Committee

Workplace Safety North would like to thank the Mining Health and Safety Conference Advisory Committee for their guidance in developing this year's conference.

Darren Toner

Manager of Health, Safety, Environment and Risk
Vale, North Atlantic Capital Projects

Dennis Sobey

Risk, Health and Safety Manager
Kirkland Lake Gold Detour Mine

Chris Bamberger

Manager of Learning and Development
Vale, North Atlantic Operations

Dan Laing

Project Manager
Stantec

Draper Selman

Environment, Health and Safety Coordinator
Boart Longyear, Red Lake

Joanne McGillis

Northern Regional Office Supervisor
Electrical Safety Authority

Michael Ferguson

Senior Products Design Engineer
Boart Longyear, North Bay

If you would like to join the Conference Advisory Committee, please contact Paige Spillane at (705) 690-2842 or paigespillane@workplacesafetynorth.ca.



Participate in the gamification scavenger hunt for your chance to win a 2022 conference swag bag!

How to Participate:

- Participants must be a resident of Ontario and a registered attendee of the 2022 Virtual Mining Health and Safety Conference.
- While attending the virtual conference, participants must complete a set of tasks to earn gamification codes. To collect gamification points, each code must be entered into the accompanying task in the 'Gamification' tab.
- The gamification scavenger hunt will begin at 8:00 am ET on Wednesday, April 27, 2022 and end on Wednesday, April 27, 2022 at 3:00pm ET.
- The 50 participants with the highest gamification points will be contacted to claim their prize.

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HEAT STRESS IN THE CANADIAN MINING INDUSTRY

New Study!

Heat stress in the mining industry has been a cause for concern for many decades. Whether on-surface, underground or in-plant, Canadian miners perform physically demanding jobs that, when combined with exposure to hot environments, can lead to dangerous elevations in core temperature and burden the entire body. When compounded by a progressive state of dehydration, miners are at an elevated risk of developing a heat-related injury (e.g., severe fatigue, heat exhaustion, heat-induced fainting, acute kidney injury). Given that heat stress is projected to increase in severity with rising global temperatures, occupational heat stress prevention and management are of critical importance to prevent adverse heat-health effects and support safe and effective work.

To date, there is only a superficial understanding of the key factors contributing to excessive heat stress and strain in the mining industry, which limits our ability to design practical heat-mitigation strategies to safeguard worker health and safety. To better understand these issues, we are undertaking two Canada-wide surveys in collaboration with the mining industry. The first survey assesses the determinants of heat stress and strain from the worker's perspective. The second is a survey of personnel responsible for the health and safety of company workers aimed at evaluating heat risk management methodologies and practices. The survey findings will increase awareness and knowledge about the importance of heat stress prevention and management programs that can be widely adopted and implemented by member organizations across Canada.

PARTICIPANT PROFILES

Survey 1: All Workers



- ✓ All employees in the Canadian mining industry, including underground, open-pit mines, smelters, refineries, and exploration projects.

Survey 2: All Health & Safety Personnel



- ✓ All individuals responsible for the health and safety of employees (e.g., supervisors, safety professionals, managers) in the Canadian mining industry, including underground, open-pit mines, smelters, refineries, and exploration projects.

HOW TO PARTICIPATE



- 🌐 Accessed online on any smart device.

- ⌚ 10-15 minutes to complete.

- 🔒 All responses are **anonymous**.



Click to Link to Survey 1



- 🌐 Accessed online on any smart device.

- ⌚ 10-15 minutes to complete.

- 🔒 All responses are **anonymous**.



Click to Link to Survey 2

Meet the Study Leads



EMILY TETZLAFF, R.KIN
Ph.D. Candidate, Human & Environmental Physiology Research Unit



DR. GLEN KENNY
Director, Human & Environmental Physiology Research Unit



DR. STEVE HARDCASTLE
Director, BBE Consulting

Click for full profiles

This project has been developed with direct input from the Canadian mining industry and members of Operational Heat Shield Canada, a research group specializing in generating the science to help Canada adapt and prepare to face rising global temperatures. For more information please contact Ms. Tetzlaff (etetz085@uottawa.ca) or Dr. Kenny (gkenny@uottawa.ca).

HUMAN AND ENVIRONMENTAL PHYSIOLOGY RESEARCH UNIT | UNIVERSITY OF OTTAWA | WWW.HEPRU.CA | 613-562-5800 X4270 | HEPRU@UOTTAWA.CA

Trade Show Exhibitors

WSN is pleased to welcome the following exhibitors to its online 2021 Information Exchange Trade Show.

Directory

A.J. Stone Company

BluMetric Environmental Inc.

Board of Canadian Registered Safety Professionals

Covergalls

Draeger Safety Canada Ltd.

Electrical Safety Authority

Glencore Sudbury Integrated Nickel Operations

Health & Safety Professionals Inc.

Levitt Safety Ltd.

Mining Innovation Commercialization Accelerator

NATT Safety Services

Provix

Redpath Mining Contractors and Engineers

Songbird Life Sciences

Threads of Life

Vale

Wellness 3D Inc.

Workplace Safety North

Conference Sessions

9:00 – 9:15 am



Welcome and Opening Remarks

Sam Barbuto

Master of Ceremonies
Workplace Safety North

9:15 – 10:30 am



Moving Forward Post-Pandemic: Pay Attention to Your Organizational Culture

Dr. Linda Duxbury

Chancellor's Professor
Sprott School of Business

Dr. Linda Duxbury is Canada's most accomplished researcher, writer, and speaker on employee well-being and mental health as well as work-life balance. She has contributed to numerous comprehensive national studies on these topics and the bottom-line effect on business.

In this keynote, human resources and work-life balance expert, Dr. Duxbury talks about the impact of the COVID-19 pandemic on employees and companies, the importance of organizational culture, and how companies can address this moving forward.

10:30 – 11:00 am

Trade Show and Health Break

11:00 – 12:00 pm



2021 Totten Mine Evacuation

Danny Taillefer

Mine Rescue Officer
Ontario Mine Rescue

Ontario Mine Rescue Officer Danny Taillefer talks about getting it right when it matters most. In September 2021 Vale's Totten Mine experienced an unplanned event in the main shaft travelway that prevented access into and exit from the mine workings.

Over the course of three days Vale and Ontario Mine Rescue conducted an operation sending mine rescue volunteers into the mine to set-up and execute a safe evacuation of the mine via the secondary egress ladderways.

This presentation will review the events, challenges, and solutions as experienced by those working underground to ensure all mine workers returned home safely to their families.

12:00 – 1:15 pm

Trade Show and Lunch

1:15 – 2:30 pm

Industry Panel: Below the Surface

A workplace mental health panel exploring mines and minds, hosted by Workplace Safety North's Angele Poitras



Chris Spina
Finance Manager
Impala Canada Ltd.



Courtney Lessel
Research Associate
CROSH



Greg Major
Director – Underground Centre
NORCAT



Yasir Zelaya
Health & Safety Field Trainer
Agnico Eagle Canada – Detour Lake Mine

A DAY TO REMEMBER LIVES LOST.
A DAY TO RESOLVE TO MAKE WORKPLACES SAFER.



DAY OF MOURNING

APRIL 28



**Thank you for attending the 2022 Virtual
Mining Health and Safety Conference!
See you next year.**