The Occupational Hygiene Association of Ontario presents:

**PDC – October 19, 2022 – Virtual Only**

**Fall Symposium – October 20, 2022 – Virtual and In Person**

In Person Symposium taking place at CHSI, 5110 Creekbank Rd., Mississauga

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**Wednesday, October 19 (PDC)**

8:00 am - 4:30 pm

*Welding as a Carcinogen: Identifying Exposures and Controls*

**Thursday, October 20 (Fall Symposium)**

7:30 am – 4:30 pm

*OH-Related Topics and Case Studies*

*Please note, the symposium will be offered in-person at CHSI. Some of the speakers will be presenting virtually at the in-person event; this will be noted in the agenda. This is the first time we are trying this option to give our attendees access to speakers we would not necessarily be able to afford to bring in for in-person sessions.*

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**The PDC this Fall will take place virtually on the Zoom Webinar Platform**

**The Symposium will take place live at CHSI (with some virtual speakers) and there will also be a virtual stream available. There is limited space for the in person Symposium so register early.**

Please note, once you register you will receive a confirmation email, but the link to login for the virtual sessions will only be sent to you via email the day before the event.

**To register, please visit the OHAO website at [www.ohao.org](http://www.ohao.org) or if you are looking at the digital copy click here to go directly to the registration page.**

You should retain a copy of the program and your payment receipt to document your attendance for maintenance points. Your receipt will include the topics covered and contact hours. If you need another form of confirmation, please contact office@ohao.org

Occupational Hygiene Association of Ontario (www.ohao.org)
Telephone: 905-567-7196 Facsimile: 905-567-7191
OHAO is pleased to present Welding as a Carcinogen: Identifying Exposures and Controls

**PDC Description**
IARC has recently categorized welding fume as a Group 1 carcinogen. Welding is nearly ubiquitous in industrial environments. This course describes common welding and thermal cutting processes and the health/safety hazards associated with each of these processes. Terminology used in the welding industry is incorporated throughout the PDC as a means of familiarizing participants with the vocabulary used in the workplace. Materials, thermal processes and scenarios associated with potential for overexposures are described. Emphasis is placed on manganese and hexavalent chromium exposures, as well as many other health and safety hazards. Suggestions for improving the quality of monitoring data are provided, as are suggestions for prioritizing exposure assessments. Ventilation techniques and respiratory protection options are also described. An Excel spreadsheet for tracking relevant data for developing welding SEGs will be provided.

**Speaker Information:**
Mike Harris received an earned research Doctorate from Louisiana State University in 1979 and is President of Hamlin & Harris, Incorporated in Baton Rouge, Louisiana.

In 2003, his book, "Welding Health and Safety: A Field Guide for the OEHS Professional" was selected as “Critic’s Choice” for best non-committee AIHA publication.

His welding experience includes:
- Teaching aircraft welding at the US ARMY Transportation School.
- Welding environmental test equipment for Ling Electronics
- Welding aircraft drop tanks at Royal Industries
- Welding pressure vessels for nuclear submarines at Aerojet General

Mike is a Fellow of the AIHA and the 2014 recipient of the Donald E Cummings award.

**PDC Outcomes:**
Upon completion, the participant will be able to:
- Describe general health and safety hazards associated with welding and thermal cutting
- Discuss welding fume as a carcinogen
- Develop an exposure assessment strategy for welding and thermal cutting strategies
- Recognize and recommend effective ventilation for welding and thermal cutting in confined spaces
- Identify issues that need to be addressed during welding and thermal cutting in confined spaces.
PDC Outline:
1. Introduction and overview
2. Welding fume as a carcinogen
3. Welding / cutting processes & associated health hazards
4. Metals and associated health hazards
   a. Manganese and hexavalent chromium
   b. Welding fume as an IARC Group 1 Carcinogen
5. SEGs and exposure assessments
6. Case studies
7. Controlling exposures
   a. Process Selection
   b. Ventilation
   c. PPE
   d. Exposure Control Banding

PDC Instructional Methods
Instructional methods include power point presentation, reference to AIHA publications, and group discussions.

Recommended Reading (not required)
Welding Health and Safety: A Field Guide for OEHS Professionals
Stock # SWEF02-490

Field Guidelines for Temporary Ventilation of Confined Spaces With an Emphasis on Hotwork
ISBN 0-932627-78-1
Stock # 231-RC-96

Schedule (all times EST)
08:00 AM – 10:00 AM: Session Starts
10:00 AM – 10:15 AM: Coffee Break
10:15 AM – 12:00 PM: Session
12:00 PM – 01:00 PM: Lunch
01:00 PM – 02:30 PM: Session
02:30 PM – 02:45 PM: Coffee Break
02:45 PM – 04:30 PM: Session
04:30 PM: Session Ends

Total Contact Hours: 7
Fall Symposium – Thursday, October 20, 2022, 7:30 am- 4:30 pm EST In Person (space is limited, register early) and Virtual

OHHAO Presents: OH-Related Topics and Case Studies

Note: Sessions marked as virtual indicate the speaker will be brought in remotely and shown on the screen at the in-person event.

<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
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<tbody>
<tr>
<td>7:30 – 7:50 AM</td>
<td>Log on to Zoom/Registration/Breakfast</td>
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<tr>
<td>7:50 – 8:00 AM</td>
<td>President’s Welcome</td>
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<td>Joanna Tam, BSc, MHSc, CIH</td>
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<td>8:00 – 8:30 AM</td>
<td>MLITSD Updates</td>
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<td>Cristina St. Pierre, CIH, Provincial Hygienist, MLITSD</td>
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<td>8:30 – 9:30 AM</td>
<td>Nano Materials – A New Modern Science/ Technology, its Benefits, Implications on Human Health, and Mitigation Measures</td>
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<td>Kumakshi Sharma, MS, RBSO, CRSP, Health, Safety and Environment Advisor, National Research Council, Government of Canada</td>
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<td>9:30 – 10:15 AM</td>
<td>Virtual Session: Noise Control – Insight for Applications Pt 1</td>
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<td>David Nelson, MSc, A. Nelson, INCE Fellow and Board Certified President, Principal Consultant, Nelson Acoustics</td>
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<td>10:15 – 10:30 AM</td>
<td>Break</td>
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<tr>
<td>10:30 – 11:15 AM</td>
<td>Virtual Session: Noise Control – Insight for Applications Pt 2</td>
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<td>David Nelson</td>
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<td>11:15 AM – 12:15 PM</td>
<td>Virtual Session: Simplify how you Communicate Science by Following the Research on Effective Risk Communication</td>
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<td>Jonathan Klane, MSEd, CIH, CSP, CHMM, CIT, Senior Safety Editor, Lab Manager Magazine</td>
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<td>12:15 – 1:15 PM</td>
<td>Lunch/Networking Break and Vendor Presentations</td>
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<td>1:15 – 2:15 PM</td>
<td>Leading a Mentally Healthy Workplace</td>
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<td>Jennifer Richardson, BSc, MHSc, CHST, CIH, Director, Corporate Health, Safety &amp; Environment, The Royal Canadian Mint</td>
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<td>2:15 – 2:30 PM</td>
<td>Break</td>
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<td>2:30 – 3:30 PM</td>
<td>Virtual Session: Worker Health Considerations in Rare Earth Element Mining</td>
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<td>Courtney Gendron, MPH, Occupational Hygienist, WSP</td>
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<td>3:30 – 4:30 PM</td>
<td>Supercharging Traditional Industrial Hygiene Data Interpretation: Introduction to IHSTAT Bayes</td>
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<td>Jérôme Lavoué, Ph.D., Associate Professor, Department of Environmental and Occupational Health, School of Public Health, Université de Montréal</td>
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<td>4:30 – 5:00 PM</td>
<td>In-person or virtual post-event networking opportunity. Catch up with your colleagues and fellow members.</td>
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Total Contact Hours: 7
2022 OHAO PDC and Fall Symposium
Registration Fees
Fall 2022 PDC is Virtual Presented on the Zoom Webinar Platform
Fall 2022 Symposium is Virtual and In-Person at CHSI, 5110 Creekbank Rd., Mississauga

Professional Development Course – VIRTUAL ONLY
Wednesday, October 19 PDC – OHAO Presents: Welding as a Carcinogen: Identifying Exposures and Controls

Registration

☐ Member - $350.00 + HST
☐ Non-Member - $450.00 + HST

Fall Symposium – Virtual and In-Person (space is limited, register early)
Thursday, October 20 Fall Symposium - OH-Related Topics and Case Studies

Registration

☐ Member - $250.00 + HST
☐ Non-Member - $350.00 + HST
☐ Student - $25.00 + HST

COVID-19-Related Protocols are covered during the registration process for the live event. Pricing is the same for both virtual and in person events.

Discounts

If you register for the PDC and the Symposium you will receive a 10% discount on your registration fees. Discounts are pre-calculated in the combination price option.

Non-Members Note

Non-Members please note the difference between the member and non-member rate is more than the cost of an OHAO annual membership, and if you join OHAO after October 1 the remainder of 2022 and your 2023 membership are covered. For information on joining OHAO click here.

Cancellations

No shows forfeit the full registration fee. Substitutions are permitted.