

President's Message



December 1, 2009

Greetings and Happy Holidays. I hope that this message finds you all well. Laura Randall is lining up a very good spring in terms of educational opportunities starting with a half day PDC on March 22nd regarding "Emerging Issues in Air Sampling" and a full day PDC on April 19th regarding "Advancements in Exposure Assessment". There is also the Industrial Ventilation Conference, Comprehensive Industrial Hygiene Review Course, and 2010 Michigan Safety Conference. So there are plenty of local opportunities at a very reasonable cost to network, expand your knowledge and skills, and earn CM points.

As you know, this is also the time of year that we begin collecting names for our upcoming elections for MIHS offices that will be vacated. The qualifications for a Board of Director position is that you be in good standing with MIHS, qualified, and willing to serve. For an Officer position, any Full Member in good standing of the MIHS who is also a Member in good standing of the AIHA may hold an officer position in the Michigan Section. Passion and enthusiasm are also a plus. I have found my involvement with MIHS to be a very enriching one and would encourage you to contact Sharkey Mingela 313-577-1714 if you are interested in an office for next term.

I hope to see you all at our next event, which is Student Night. - Terry

Mark Your Calendars

Industrial Ventilation Conference

February 8 - 11, 2010

Kellogg Center

East Lansing, Michigan

Link: <http://www.michiganivc.org/>

½ Day PDC "Emerging Issues in Air Sampling" and MIHS Past-Presidents' and Annual Business Meeting

Instructor: Deb Dietrich from SKC

March 22, 2010

Meadow Brook Hall - Rochester, Michigan

Watch for details in broadcast emails.

Comprehensive Industrial Hygiene Review Course

Co-sponsored by U of M, MIHS and AIHA

April 12, 2010 - April 16, 2010

Ann Arbor, Michigan

<http://www.aiha.org/education/ce/roadcourses/Pages/CIHReview.aspx>

PDC at the Michigan Safety Conference 2010

Title: "Advancements in Exposure Assessment - Improving Data Interpretation and Professional Judgment Using Bayesian Decision Analysis"

Program Instructor: John R. Mulhausen, PhD, CIH, CSP

April 19, 2010

Co-sponsored by: MIHS, U of M COHSE, WMIHS

(PDC at the Michigan Safety Conference 2010 continued)

Radisson Hotel - Lansing, Michigan

ABIH CM Approval Number: 09-4095 for 1.17 CM Points (IH Rubric Area)

Registration: <http://www.mihswb.org/index.htm>

Register before Thursday, April 2, 2010.

Michigan Safety Conference 2010

April 20 - 21, 2010

Lansing Center

Lansing, Michigan

<http://www.michsafetyconference.org/>

AIHce 2010 - Denver, Colorado

May 22 - May 27, 2010

<http://www.aiha.org/aihce10/plan/default.htm>

Comprehensive Industrial Hygiene Review Course

Co-sponsored by U of M, MIHS and AIHA

September 20, 2010 - September 24, 2010

Ann Arbor, Michigan

<http://www.aiha.org/education/ce/roadcourses/Pages/CIHReview.aspx>

PCIH 2010

Big Ideas. Big Solutions.

Fort Worth, Texas

October 9 -12

<http://www.aiha.org/pcih09/default.htm>

What's in the Synergist?,

Andy Crause, October 2009, Volume 20, No 9.

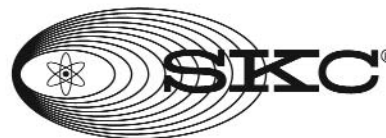


Updating PELs: Is Now the Time?

The cover of the October 2009 synergist posed this question, and four articles in the magazine discussed various ideas regarding some sort of major overhaul of the OSHA permissible exposure limits (PELs) or the very concept of the PELs. The theme of the articles was that the OSHA PELs are considered outdated and in need of revision to reflect the latest scientific knowledge, but the solution is not quite as simple as just reducing the PELs. According to David Michaels, President Obama's choice to lead OSHA, "OSHA is constrained by both budget and legal authority.....the OSHA standard setting process is broken and OSHA

lacks the resources or political clout to issue an adequate set of new standards."

The latest buzzword in chemical exposure limits is "control banding" which was developed in the pharmaceutical industry as a way to deal with compounds that have no PELs or occupational exposure limits (OELs). The concept involves grouping chemicals with similar toxicological effects and is more qualitative than quantitative. On August 17, 2009, NIOSH issued Publication 2009-152 Qualitative Risk Characterization and Management of Occupational Hazards: Control Banding, which can be downloaded at <http://www.cdc.gov/niosh/docs/2009-152/>.



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A Day In The Life....of An Amusement Park Health & Safety Inspector

By Rich McLonis



It's early, 5:00 a.m., as I'm waking up, briefly wondering where I am. Oh yes! A hotel room in Charlotte. It's March 2nd and the first day of the first safety inspection of the season. I get up slowly and make a small pot of coffee and start my routine to get ready for the day

ahead. My client and I meet in the lobby and head to breakfast at Bob Evans.

We catch up about what's been keeping us busy at our jobs for the past several months and discuss our strategy for the day's inspection. The weather is good, but cool, even by March-In-The-Carolinas standards, so we'll hit the roller coasters and higher elevation rides the first couple days, and save the others for the later part of the trip, when the rain is due to arrive.

Finishing our meal, we drive over to the park, check in with Security and then head to the Maintenance offices to touch base with the Maintenance Director, Bob. It's early and he is not in his office just yet, so we pick an empty office and set up our laptops and see if there is a wireless network that will let us connect to it. Shortly, Bob arrives and we discuss with him our plan of action for the next four days. Bob has several meetings to attend so he arranges for his assistant, Dave, to accompany us and assist us on our inspection today.

INSPECTION SCHEDULE

The goal for doing the inspections at this time of the year is to see the parks and rides while they are not open to the public yet. This is the physical conditions safety & health inspection, though we also get to see the non-seasonal employees in action as they prepare the parks for opening. The park inspections are scheduled to optimize weather conditions in the park system, inspecting the earlier opening parks first, which are coincidentally in the warmer climates. It is a tough balancing act we try to pull off, attempting to start the process early enough to get to all the parks before they open, while not starting the inspection season TOO early. Arriving at a park too early means we will see too many rides in a disassembled state. This isn't all bad, but it has its own set of challenges. When we get to a park that is already open, the inspection will be a blend of a physical-conditions and an operating-conditions audit.

TOOLS OF THE TRADE

To maximize the efficiency of our inspection efforts, we prepare ourselves with tools to help us in gathering information and protecting ourselves. This includes:

digital cameras, digital voice recorders, GFCI detectors, tick tracers, lockout clasp and lock, and a small note pad and pen.

DRESS FOR SUCCESS

The days are long and we are on our feet most of that time. The weather is a critical factor in what we pack for the trip and what we wear. This can include any and all of the following: Comfortable walking shoes, weather-appropriate clothing, a hat, sunscreen, and sunglasses, as needed. Since we are outdoors almost all day, it's important to dress warm enough in the early Spring, and cool enough for the hot weather encountered in the warmer months. Being outdoors during the warmer weather is a fairly rare thing for a health and safety professional, and a nice perk of this kind of work!

WHAT TO LOOK AT/FOR

Because amusement rides, by their very nature are designed to be 'thrill' rides, their design and operation pushes the limits of personal safety for riders and operators. If you think about it a moment and consider that, if the ride made you feel completely relaxed and safe while you were riding, it wouldn't be very exciting would it? The speed, angles, motion, and force are all contributing factors that make for a thrilling ride. Couple these factors with the very narrow margins for error and the ride can be mind-numbingly frightening. These very factors make it critically important for frequent and thorough safety inspections. The emphasis of the inspection is, therefore more heavily weighted on the rides, their safety systems and their structure. Most aspects of safety systems have several levels of redundancy built in to them, and these are inspected, too. Even though there is high emphasis on the rides, intermingled with looking at the rides, we inspect the buildings and the grounds in the parks, too. Inspecting all these aspects of the park environment, help to make a smooth operating amusement park that is safe and enjoyable for its guests and employees.

SOME SPECIFICS

Rides:

- Wood, metal or fiberglass structure
- Fasteners - Very important! This is a specialty in and of itself
- Anchors, braces, ropes and cables
- Stairs, walkways and fencing
- Trains or cars of the ride, their 'skin', attachment, wheels, couplings and RESTRAINTS (seat belts, shoulder harnesses, etc.)
- Safety signage for patrons; and their size, location and wording

continued...

...A Day In The Life....of An Amusement Park Health & Safety Inspector continued

- Electrical - wiring, GFI presence, junction boxes, emergency lights, control panels
- Braking systems, hydraulics, pneumatics, fuel, chains, belts, gears, lubrication
- Communication & speakers
- Fire suppression equipment and systems

Buildings:

- Buildings' structure - wood, metal, brick/stone, fiberglass etc.
- Seating (auditoriums)
- Fencing & railings
- Stairs, ramps, walkways, queues
- Fire protection - sprinklers, alarms, cooking suppression, portable extinguishers
- Electrical - wiring, connections, insulation, GFIs, junctions & boxes, shut offs, general lighting, emergency & exit lighting
- Gas cylinders, overhead objects' securing, storage

Grounds:

- Water exposure (drowning hazard), ponds, streams, etc., protection of/from
- Stairs, walkways, ramps - design & condition of
- Fencing & Railing
- Housekeeping
- Transformers protection
- Access to back areas - restricted

Employees:

- Work practices and behaviors
- Tool and equipment use
- Procedural compliance
- Personal protection equipment usage

WHAT'S DIFFERENT?

There is so much to know and so many details to observe, inspect and SEE, that it's difficult, no; IMPOSSIBLE to see everything or to feel confident that nothing was missed in the inspection process. We play a game kind of like 'Where's Waldo?', but it's more like 'What's Different?'

The goal is to find anything and everything that impacts the safety and health of employees and guests of the parks. We try to document everything with our cameras, voice recorders, or note pads, or some combination of two or all three of them. Our philosophy is that we can't see everything, but we TRY to, and that our inspections are a snapshot in time. "This is what we saw during our inspection." Period. If we see something wrong once, but only once, during our 'snapshot' tour, that tells us something. If we see the same something many times repeated, then that tells us something, too. Parks'

employees inspect the rides every day, at least once and sometimes multiple times. State and local inspectors come around annually and inspect very thoroughly and issue an operating certificate for each ride. If the ride isn't ready, it doesn't get certified. Having multiple parties inspecting at different times and frequencies and for different things, makes for a much safer experience for riders and operators at the parks.

I have been taught that a good way to approach the inspections is to look for differences. An example: If almost all bolts attaching the road wheels of a roller coaster's train are of a particular kind, but you find a couple that are a different grade or size or color or coating or condition, or are attached in a different manner, that can be a significant finding. Or, if you see a different color of paint on parts of track support columns of the roller coaster, you may focus on it for a moment and might find that there is evidence of recent repair on the column, perhaps welding. This may mean that the track had some non-destructive testing performed on it, tests found some stress cracks, it was repaired, and the column hasn't been repainted yet.

RULES AND ORGANIZATIONS

The rules and regulations that govern the safety and operation of amusement rides, parks and carnivals are promulgated by ASTM's International Committee F24 Committee on Amusement Rides and Devices. Years ago, it was governed under a portion of the Consumer Product Safety Commission. Many states also have a governing body that regulate and enforce amusement parks and carnivals. This is commonly done through a state's Department of Agriculture. For Michigan it is governed by the Michigan Carnival-Amusement Safety Board operating as part of the Department Labor & Economic Growth.

To ensure that well-qualified professionals are inspecting and ensuring the safety of the rides, parks, carnivals and operators, there is a national organization that educates and certifies safety and health professionals in the amusement industry; NAARSO; the National Association of Amusement Ride Safety Professionals. NAARSO provides education and resources to amusement industry safety professionals. NAARSO administers a certification program for amusement device inspectors.

From the perspective of this industrial hygienist and safety professional, this type of work is very educational, interesting, and professionally and intellectually challenging. The engineering aspects of the work have proven to be particularly challenging to a mind that hasn't been formally educated in engineering, but it's been great to learn the health and safety aspects of this exciting industry.

MIHS Mini Conference

The annual full-day MIHS Mini-Conference was held on October 15, 2009, at the MSU Management Education Center in Troy, Michigan. This program was awarded 0.67 CM points in the IH rubric, and 0.33 CM points in the ethics rubric (ABIH Approval Number 09-2302). For approval numbers on other previous MIHS-sponsored events, click on the "Approved CMs" hypertext located on the left side of the MIHS website at www.mihswb.org.

For biographies of the presenters and each of the presenter's Powerpoint presentations, go to http://mihswb.org/Mini_Conference_2009.php. Special thanks to each of the presenters, vendors, and all those who made this event possible.



President Terry Fisk introducing the first presenter



Presenter John Neville and Terry Fisk



Presenter Cindy Ostrowski and Terry Fisk



Presenter Doug Kalinowski and Terry Fisk



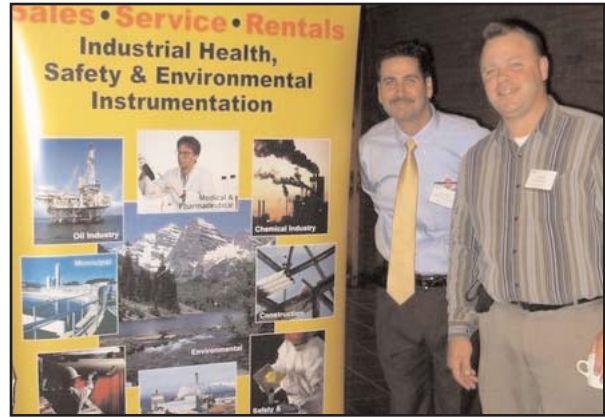
Presenter Don Lawless and Terry Fisk



Presenter Lynn O'Donnell and Terry Fisk



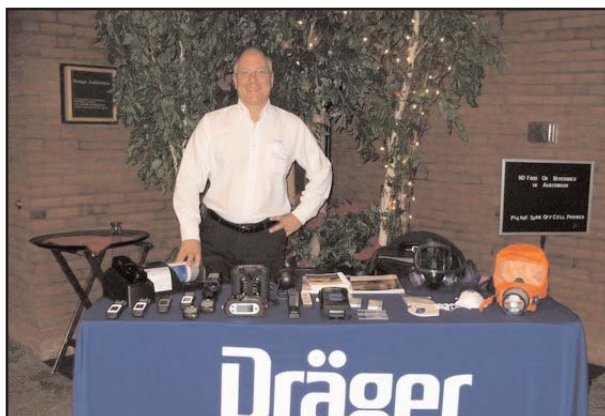
Vendor 3M



Vendor Argus-Hazco



Vendor Bureau Veritas



Vendor Dräger



Vendor MSU MIFACE program



Vendor MSA



Vendor Wayne State University



Rich McLonis, MIHS Board Member and AV Man!



"Emerging Issues in Air Sampling" Half-Day PDC combined with MIHS Past-Presidents' and Annual Business Meeting

Date: March 22, 2010

Time: Check In: 7:30 a.m.; Course: 8:00 a.m. to 12:00 p.m. Lunch is included.
There will be a continental breakfast, with beverage refreshment at the morning break.

Location: Meadow Brook Hall
Oakland University Campus
Rochester, Michigan
• Meeting in the Ball Room in the lower level
• Directions to OU: <http://www.oakland.edu/?id=7132&sid=215>

Parking: Park in the lot adjacent to the Courtyard, Parking lot number 61. Parking is free.
Link: <http://www.oakland.edu/Apps/ShowMap.aspx?mapId=2&CWFFriendlyUrlApp=true>

PDC Presenter: Debbie Dietrich from SKC

Course Objective: In this era of recessionary cutbacks, this course will discuss emerging areas where air quality measurements are actually expanding. The growth areas for IAQ measurements that will be covered include certification of GREEN BUILDINGS and investigation of VAPOR INTRUSION into buildings from underground contamination. This course will also present a collection of short subjects where exposure measurements are being done for new applications including nanoparticles, school zone sampling, mercury emissions into ambient air, and methamphetamine clandestine labs. Join us for Emerging Issues in Air Sampling and earn ABIH CM points close to home.

ABIH Certification Maintenance: CM Approval Number applied for 0.5 CM Points in the IH Rubric Area.

Handouts: Electronic handouts will be emailed to the attendees once registration and payment is received.

Agenda: 7:30: Sign In and Continental Breakfast
8:00 - 12:00 Debbie Dietrich technical presentation
12:00 - 1:00 Lunch (Working lunch for MIHS Board)
1:00 - 2:00 MIHS Business Meeting
2:00 - 3:15 Tour of Mansion (Optional); Tour is free for Past-Presidents

Registration: Please register before March 8, 2010 on the MIHS website. Link: <http://www.mihswb.org/>

Cost: \$65/MIHS Member (no tour) & MIHS Past-Presidents (free tour); \$75/MIHS Member with tour;
\$85/non-MIHS Member (no tour); \$95/non-MIHS Member with tour
Students of IH programs (who are not working full time) are free - if not staying for lunch and no tour.

Topics Covered:	About The Presenter:
<p>Green Buildings:</p> <ul style="list-style-type: none"> • LEED® Green Building Criteria by the U.S. Green Building Council (USGBC) and the expertise health and safety professionals can offer to each criterion • LEED requirements for indoor environmental quality credit • Sampling options <p>Vapor Intrusion:</p> <ul style="list-style-type: none"> • Steps to assess risk per the U.S. EPA guidance document • Sampling options for sub slab and indoor air • Results of a field study comparing available samplers <p>Short Subjects:</p> <ul style="list-style-type: none"> • Nanoparticle Exposure Measurements: The NIOSH Strategy • Methamphetamine Detection Methods: NIOSH Field Test kits • School Zone Air Quality - U.S. EPA Initiatives • Mercury Emissions - Targeted industries and Sampling Approaches 	<p>Debbie Dietrich holds a master of science in industrial hygiene from the University of Texas School of Public Health in Houston. She is the author of the chapter on "Sampling of Gases and Vapors" in the AIHA publication - "The Occupational Environment - It's Evaluation and Control" and co-author of the chapter on "Sampling and Laboratory Analysis of Gases, Vapors, and Aerosols" in the AIHA Publication "<i>Essential Resources for Industrial Hygiene</i>".</p> <p>Debbie is a past Director for the National AIHA Board and is certified in comprehensive practice of industrial hygiene by the American Board of Industrial Hygiene. She has worked at SKC for 25 years and has lectured extensively around the world on air sampling issues.</p>



*Attend this full day PDC for 1.17 CIH CM Points, and then stay for two more days in Lansing to attend the Michigan Safety Conference, and earn AN ADDITIONAL 2.0 CIH CM points (See details below.) *

“Advancements in Exposure Assessment - Improving Data Interpretation and Professional Judgment Using Bayesian Decision Analysis”

April 19, 2010
Lansing, Michigan

A Continuing Education Workshop Co-Sponsored by:

Michigan Industrial Hygiene Society (MIHS)
University of Michigan – Center for Occupational Health and Safety Engineering (COHSE)
Western Michigan Industrial Hygiene Society (WMIHS)

Program Description: The Bayesian statistical framework offers exciting opportunities for improving the accuracy, efficiency, and transparency of our exposure judgments. Bayesian techniques can be used to formally combine our professional judgment regarding a particular exposure and its uncertainty along with the statistical analysis of current exposure data. The language and framework of the approach holds promise for expressing the output of exposure assessments in a manner that is much more easily understood and communicated than the output from more traditional statistical analysis. Best of all, the Bayesian decision analysis approach formalizes traditional exposure assessment processes already used by industrial hygienists today. This course will provide an overview of the Bayesian framework for decision analysis and explore, through discussion and workshops, opportunities for its application in industrial hygiene data interpretation and exposure risk assessment.

Program Instructor: John R. Mulhausen, PhD, CIH, CSP
Dr. Mulhausen, an AIHA Fellow, is the Director of Corporate Safety and Industrial Hygiene at 3M. He received his BA in chemistry from St. Olaf College followed by an MS and a PhD in environmental health from the University of Minnesota. He is also an adjunct assistant professor at the University of Minnesota School of Public Health. Dr. Mulhausen is a member of: the National Institute for Occupational Safety and Health (NIOSH) Board of Scientific Counselors; the Midwest Center for Occupational Health and Safety Advisory Board; the University of Minnesota Industrial Hygiene Advisory Forum; the AIHA Exposure Assessment Strategies Committee; the Delta Omega Honorary Public Health Society; and the AIHA Upper Midwest Section. He was the 2002 recipient of the AIHA Edward J. Baier Technical Achievement Award and the 2009 Henry F. Smyth Jr. Award.

Program Location: Radisson Hotel, 111 North Grand Avenue, Lansing, MI 48933, (517) 482-0188
Map Link: http://www.radissondestinationguide.com/locationMap.process/OID_EB39EA2D/?hotelCode=LANSING
Meeting Room: Michigan Rooms 2 & 3 on the 2nd Floor: <http://www.radisson.com/hotels/lansing/meetings/0>
Parking: The Radisson Hotel offers valet parking for a nominal fee of \$10.00.

Time: Check In: 7:30 a.m.; Course: 8:00 a.m. to 5:00 p.m. Lunch is included. There will be a continental breakfast. Beverage refreshments and light snacks will be served at the morning and afternoon breaks.

Attendee Note: Attendees should bring a laptop PC. (Sorry, no Macs.) A software program for performing Bayesian decision analysis calculations will be distributed. (Laptop is helpful, but not required to attend the class.)

Handouts: Electronic handouts will be emailed to the attendees once registration and payment is received.

ABIH Certification Maintenance: CM Approval Number is 09-4095 for 1.17 CM Points in the IH Rubric Area.

<p>Fee: \$75/person: Pre-registered and pre-paid, prior to April 2, 2010. \$125/person: Not pre-registered and not pre-paid by April 2, 2010. \$150/person: Walk-in at door (if space allows).</p>	<p>Registration: Go to the MIHS website http://www.mihswb.org/index.htm and click on "Event Registration" Register before Thursday, April 2, 2010.</p>
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*Michigan Safety Conference To register for the MSC, go to: <http://www.michsafetyconference.org/> Register before April 2, 2010 to get the Early Registration Discount

***Two days at the MSC = \$150 + \$75 for the PDC above = \$225 for 3.0 CIH CM points. That's \$75/point!**

2009-2010 Officers and Executive Board

MIHS Officers



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Term: 2009 - 2010



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MIHS Organizational Members

Each year the activities of the MIHS have been supported by our Organizational Members. The MIHS appreciates the support and generosity of our Organizational Members.

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DTE Energy Resources
Fibertec Industrial Hygiene Services, Inc
Performance Environmental Services, Inc.
SKC, Inc.

For questions or comments on the newsletter please contact
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Filling in 1-year remaining in Carrie Brown's term.



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