



December 2017

rinkrat

Making Ice in PyeongChang - Part 5

By Brandon Klement, CIRM

You know that feeling you have when you leave the house and feel like you forgot something? Keys? Check. Phone? Check. Wallet? Check. Suddenly, you realize that you left the oven on, and turn back around to safely turn it off. Scary!

Thankfully you have that feeling to remind you. Unfortunately, when the 2018 Winter Olympic Games start...even if we as Ice Technicians get that feeling there will be little to nothing we can do if something is left out of the mix.

Looking Forward to the 2018 Winter Olympics



It's common for us to forget at least one thing. If you do, no sweat - we just go down the road to our local hardware store or in our back room to get the yarn, marker, squeegee, or whatever ice making tool we need.

As odd as this seems, it is not that simple for the upcoming Olympic Games in PyeongChang, South Korea. So what are we doing as Ice Technicians to check, double check and triple check that the ice making equipment is all accounted for and present for one of the biggest sporting events in the world?

The Kwandong Hockey Centre and the Gangneung Hockey Centre hosted the 2017 International Ice Hockey Federation (IIHF) Ice Hockey Women's World Championship Division II



(Continued on page 9)

INSIDE THIS ISSUE

President's Message	Page 2-3
2017 Fall Conference Wrap-Up	Page 4-5
2018 Spring Conference Certifications	Page 7
Moffatt and Klement to Present	Page 8
NEISMA Rink Summit 2018	Page 10
How to File an EPA Tier 2 Form	Page 12
Arena Curling Continues to Grow	Page 13
2018 Spring Conference Schedule	Page 14
2018 Spring Conference Registration Form	Page 15
Ten New Year's Resolutions	Page 16
Current NEISMA Membership Listing	Page 18-19
<i>I'm Just Sayin'</i>	Page 20-24
Snow and Air Quality Issues at Your Rink	Page 22-23
ASTM Re-Visited	Page 24-25
2018 William Chase Scholarship Application	Page 26
2017 - 2018 Membership Application	Page 27



2018 Spring Conference and Trade Show

Sunday, April 22 through
Thursday, April 26, 2018

President's Message

by Ben Ruggles, CIRM, PMP



First of all, Happy New Year everyone! I hope you had an excellent holiday and are looking forward to 2018. I know NEISMA is. We are "full steam ahead" towards our annual Spring Conference and Trade Show, this year being held in historic Lake Placid, New York. We're confident that this will be the most memorable NEISMA Conference in recent history.

Once again, we'll be offering multiple certification classes by both the Ice Sports Industry and the US Ice Rink Association, which are listed on **page 7**. We feel this is an important service we are offering for our membership as many of you are seeking certification so we're making these opportunities available to you.

This year, NEISMA will present only one seminar during the day of the Conference - "Making Ice in PyeongChang and the 2018 Winter Olympics" - but will feature information for everyone - both managers

and operators. Don Moffatt, Chief Ice Maker for the 2018 Winter Games, and Brandon Klement, Ice Technician, will be reviewing their roles during this year's games, which run February 8 - 15, 2018 in South Korea. A brief overview of their presentation is on **page 8**. Brandon contributed an article regarding their recent preparations which is featured on our **cover page**.

Another exciting opportunity that we're offering is our annual NEISMA Cup hockey game between the Vendor members versus the Rink members on the 1980 Rink in the Herb Brooks Arena, the site of the memorable "Miracle on Ice" Gold Medal run of the US Men's team in 1980. There is a space on the Registration Form on **page 15** for you to sign up for this game. This is first come, first serve, so make sure you sign up early as we need to limit roster size.

(Continued on page 3)

NEISMA Board of Directors

PRESIDENT

Ben Ruggles

Phillips Academy Ice Rinks
180 Main Street
Andover, MA 01810

bruggles@andover.edu

P: 978-684-7201
F: 978-684-7205

VICE PRESIDENT

EJ Gottwald

William L. Chase Arena - FMC
35 Windsor Avenue
Natick, MA 01760

egottwald@fmcicesports.com

P: 508-655-1013

2ND VICE PRESIDENT

Tom Ferguson

Safehold Special Risk Inc.
230 Commerce Way
Suite 230
Portsmouth, NH 03801

tom.ferguson@safehold.com

P: 603-559-1378
F: 855-529-7684

TREASURER

Michelle Stenberg

Quincy Youth Arena
60 Murphy Memorial Dr.
Quincy, MA 02169

michellestenberg@gmail.com

P: 617-479-8371
C: 781-215-1260

SECRETARY

Thomas Walsh

Boston College Athletic Facilities
140 Commonwealth Avenue
Chestnut Hill, MA 02467

thomas.walsh.5@bc.edu

P: 617-552-0137
C: 617-594-1205

BOARD MEMBER

George Arnaoutis

Yale University
Ingalls Rink
73 Sachem Street
New Haven, CT 06511

george.arnaoutis@yale.edu

P: 203-430-0662
F: 203-239-9244

BOARD MEMBER

Ed Peduto

Burbank Ice Arena
51 Symonds Way
Reading, MA 01867

edpeduto@aol.com

P: 781-942-2271
F: 781-942-0423

BOARD MEMBER

Tom Morton

Morton & Morton
200 Jackson Street,
Box 700
Zebulon, GA 30295

tom@mortonattorneys.com

P: 770-567-8534
F: 770-567-3786

BOARD MEMBER

William Vecchio

11 Scotland Ave.
Salem, NH 03079

ff108rush@aol.com

P: 617-892-0200

BOARD MEMBER

Eric Dursin

Schneider Arena
Providence College
1 Cunningham Square
Providence, RI 02918

edursin@providence.edu

P: 401-865-2331

BOARD MEMBER

David Korpel

Greater Canandaigua Civic Center
250 North Bloomfield Road
Canandaigua, NY 14424
gcccexecdirector@rochester.rr.com

P: 585-737-7107

EXECUTIVE SECRETARY

John Zullo

NEISMA
P.O. Box 290595
Wethersfield, CT 06109
jzullo@neisma.com

P: 888-234-3968
F: 888-234-3968

(From page 2 - President's Message)

On Monday, we will be hosting our first ever "NEISMA Rink Summit" where leaders from the ice rink industry will meet to discuss topics of common concern. Summit Chairman Eric Dursin is currently putting the agenda together for this event which should prove to be a very worthwhile effort in bringing folks together at the same table. This is still in the formative stage and welcome input from those who are interested. A brief summary of this event can be found on **page 10**.

Consistent with NEISMA's mission, there are several articles of interest in this issue of the *Rink Rat* to educate and inform our membership. On **page 12**, Janet Bowen of the EPA, has submitted an article regarding their Tier 2 form on hazardous chemicals.

In addition, NEISMA board member, Tom Morton, has informative articles on how snow can impact air quality (**page 22**) and a review of our involvement

with ASTM (**page 24**). NEISMA will continue to be your source for health and safety information.

Newly appointed board member, Eric Dursin, is starting a new opinion feature entitled "I'm Just Say-in'" (**page 20**), and encourages readers to provide ideas, suggestions and feedback. Feel free to email him at "feedback@neisma.com".

We've written some "tongue in cheek" resolutions for you for 2018 (**page 16**), all encouraging you to join us in Lake Placid this coming April. Honestly, we're taking a big chance by expecting folks to travel to upstate New York for our annual event but we truly feel that the time, effort and money will be worth it for our members. We hope it enables others in the New York/Vermont area - and even Canada - to attend and get involved in NEISMA. But moving our annual conference to the mecca of ice sports in America during a Winter Olympic year was something we couldn't pass up. Hopefully you won't either! Please join us!



An advertisement for Rink Equipment Resource. The background is a black and white photograph of a person's hands in hockey gloves holding a hockey stick on an ice rink. The text "The Easiest Way to Buy, Sell or Trade Used Rink Equipment" is overlaid in large, bold, black letters. To the right is a circular logo with a stylized 'R' and the text "RINK EQUIPMENT RESOURCE" and "BUY · TRADE · SELL".



800-234-5522 (ASK FOR TODD LANG)
RINKEQUIPMENTRESOURCE.COM

Fall Conference Wrap-Up



Wednesday, October 18th

On a beautiful fall day in Central New York, it was a “great day for a fall conference”. (Playing on the words of Coach “Badger “ Bob Johnson). The event was held at the Tenny Ice Skating Pavilion on the campus of Syracuse University with over 30 people attending.

There were several NEISMA Board members there to meet and greet the guests. Ed Peduto was there to keep the conference flowing and make the attendees feel welcome, along with George Arnaoutis, Tom Walsh and David Korpiel.

There were several colleges represented including Cornell University, SUNY Cortland, Broome County Community College, Rochester Institute of Technology, Niagara University, Syracuse University, Boston College and Yale University. There were representatives from nearby Auburn, NY where Casey Park is located. The City of Auburn was set to close the ice rink facility when a group of caring parents came together and saved the facility. The representatives from Casey Park Ice Facility were there to learn more about the ice rink industry. They were intrigued and fascinated by all the information they received at the meeting and contacts they made. Several other local rinks were represented at the meeting, as well.

George Arnaoutis, representing Jet Ice, spoke to the guests about the different types of logos used in the ice. George demonstrated the drop in logos as well painted logos and paper lines. There was a discussion on what members felt comfortable with the logos that was used at their particular facility.

Art Dormamajiam from Munters spoke about improving ice efficiency while controlling the humidity inside the



rink facility. His talk included efficiency of the dehumidification system and its importance in an ice rink. There were great questions and answers during this presentation.

Chris Geatrakas from Davis Mechanical spoke to the group about the refrigeration system. He spoke of the importance of taking readings regularly and have routine maintenance on the compressors. He said, “without this there is no money to be made.”

The Tenny Ice Skating Pavilion is always open to the students of Syracuse University. There is a small circular auxiliary rink just steps away from the main arena rink. The Tenny family asked that the rink is open even during Syracuse Women Varsity Hockey games. It is a really interesting concept. It does, however, work. Many thanks to Kelly Johnson, the Associate Director at the rink, for hosting the event.

The guest speakers were a tremendous asset to the event but the networking and comradery was even better. The knowledge shared at the conference was remarkable. First time conference attendee Zach McNeil said, “I thought that I knew a lot about rink stuff, but I really learned much more.” Zach continued, “ I look forward to going to more of these programs and conferences.”

Special thanks go out, too, to the sponsors who made it possible for attendees to come for free!

The Syracuse event was the lead off for the rest of the NEISMA fall conferences and it was a success. It is nice to that there is more and more interest in the ice rink industry and NEISMA is leading the way. *(Submitted by David Korpiel.)*



Tuesday, October 24th

Over seventy (70) people attended the fall conference held at the Schneider Arena on the campus of Providence College in Providence, Rhode Island. Twenty-six (26) of the attendees achieved their SIRO certification through the US Ice Rink Association with the others attending other worthwhile presentations during the day.

Fall Conference Wrap-Up

Mark Taylor and Ron Vogl from Honeywell gave a very detailed presentation on the R-22 refrigerant that is being phased out of production as well as alternative refrigerants that are available for replacement.



Alfonso Sira of Houghton Chemical then gave a very detailed presentation on inhibited glycol.

At lunch, David Fraizer, from Northeastern University, and John Owens, from Newton Country Day School, both commented how helpful the two morning presentations were and felt that this was the most informative conference NEISMA has hosted in quite some time.

In the afternoon, former Schneider Arena Manager and Hockey Coach, Bob Bellemore, took an interesting and fun look back at the way rinks have been run which put smiles on everyone's faces.

Special thanks to Eric Dursin, current manager at the Schneider Arena, as well as the various sponsors who helped make the conference available to our members free of charge.



Thursday, October 26th

Thirty-seven people attended the meeting in Princeton, New Jersey, sixteen (16) of whom took the SIRO class that was offered. John Krupinski, from BK Mechanical, and Mark Bradley, from CDI, were the speakers in the morning and George Arnaouts presented in the afternoon.



Twenty-one different rinks were in attendance including eight from Pennsylvania, ten from New Jersey and one each from New Hampshire, Connecticut and Massachusetts.

Special thanks to Manager Seth Sherman for his hospitality and, of course, to the sponsors who made it free for the attendees.



Wednesday, November 1st

In the final swing of the NEISMA Fall Conference tour, thirty-four people attended the meeting at the University of Vermont in Burlington.

Sheryl Graves, from Efficiency Vermont, and Mark Bradley, from CDI, presented in the morning. Dave Loverock, from Jetlce presented in the afternoon. All



three presentations were given a "thumbs up" from former NEISMA board member, Jeff Bardwell of the Everett Arena in Concord, NH.

In all, sixteen rinks were in attendance including six from Vermont, four from New Hampshire, and two each from New York, Connecticut and Massachusetts.





When it comes to handling your insurance, we know your business

Safehold Special Risk provides you with a clear understanding of the risks involved and solutions needed to run your ice rink business. For over 15 years, we have kept more than 250 facilities safe by being knowledgeable about the ice rink business and working with customers like you to design the right insurance program at cost-effective rates to satisfy your needs.

Team up with us today.

Visit us today at sportsandfitness@safehold.com or call 1-800-990-RINK (1-800-990-7465).

Products and services are offered through Safehold Special Risk, Inc., dba Safehold Special Risk & Insurance Services, Inc. in California, a non-bank insurance agency affiliate of Wells Fargo & Company. Coverage is provided by unaffiliated insurance companies with the exception of crop and flood insurance which may be underwritten by Safehold Special Risk, Inc.'s affiliate, Rural Community Insurance Company.

© 2014 Safehold Special Risk, Inc. All rights reserved. ECG-1180581

2018 SPRING CONFERENCE Certification Courses

OPERATIONS AND RISK MANAGEMENT

In this 3-day course, administrative and managerial staff will take away an in-depth knowledge on assessing risk and understanding potential liability, while operations staff will become more familiar with their role in safeguarding their facility through documentation, compliance with OSHA regulations, insurance evaluation and purchasing, employee policy manuals and the importance of indoor air quality. Energy management, facility walk-throughs, inspections and cleaning, and the importance of preventative maintenance, help round out this course.



ICE MAKING & PAINTING TECHNOLOGIES

In this 4-day course, participants will learn the skills necessary to create a quality sheet of ice. This course combines in-class and on-ice instruction of proper ice making and painting techniques and will teach you how to create an ice making plan. The class will paint the ice white with spraying equipment, measure and paint hockey markings, paint stenciled logos and install reusable logos. This course also covers building conditions (humidity, water quality, etc.) and the relationship to ice quality. Participants will complete a written exam on the final day of the course.

CERTIFIED ARENA OPERATOR - PART 3

This 3-day certification course is designed to provide a working overview of the how's and whys of what is involved in creating a great ice sheet, from the back of the house. Topics include refrigeration theory and fundamentals, refrigerants and system components, heat reclaim and controls, and refrigeration maintenance and troubleshooting. A certificate of completion will be issued. This is Part 3 of 3 course tracks needed for CAO certification.



CERTIFIED SKATING DIRECTOR

A certificate of completion will be awarded to all students upon completion of this 8-hour, one day course. The course will be taught by various instructors from the ISIU staff. Topics include the role of the skating director, human resources for the skating school, customer service, managing social media to promote your skating school, creating and managing synchro, theater on ice, and intercollegiate teams.

CERTIFIED ARENA EXECUTIVE

Planning and Designing an Ice Arena Renovation, Expansion or Retrofit

INSTRUCTORS: Art Sutherland, Rob McBride and Lisa Fedick

As our facilities age while technology moves forward, change is always imminent. This Executive level course is designed to empower arena management with the best methodology to devise both long and short term plans for all types of renovations, from a single project to a total building overhaul. Advances in refrigeration technology, lighting, energy generation and storage, as well as control systems will be discussed, along with the financial implications of each: installation, pay back and longevity. Students have the option to gain CAE credit or only audit this 90-minute class.

Moffatt and Klement to Present at Spring Conference

Don Moffatt and Brandon Klement will be our featured speakers at our upcoming Spring Conference and Trade Show in Lake Placid, New York on Tuesday, April 24, 2018.

Moffatt is the Chief Ice Maker for the upcoming Winter Olympic Games in PyeongChang, South Korea. He has been working with the hockey venues for well over a year now in preparation of this very special international competition.

In the morning of our Tuesday conference, Don will give an overview of what it takes to prepare for such an event and recap what he did over the past two years to make it happen.

After our annual Awards Luncheon, Klement will take over the presentation and get into the “nuts and bolts” of installing and maintaining the ice surfaces.

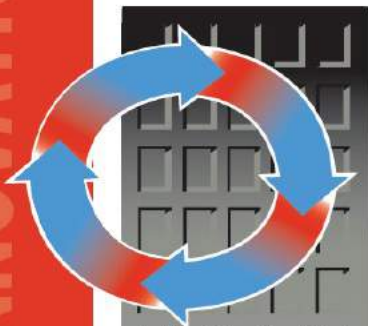
Between the two of them - along the photos and material they provide - attendees will go away as if they had experienced the event themselves! Mark your calendars now! You won't want to miss this!

Pictured here are Don Moffatt (on the left) and Brandon Klement (2nd from the right) while working with skaters at one of the hockey rinks in Pyeong Chang, South Korea. Final preparations are



now taking place for the 2018 Winter Olympic Games which run February 8 - 25.

ENERGIE INNOVATION

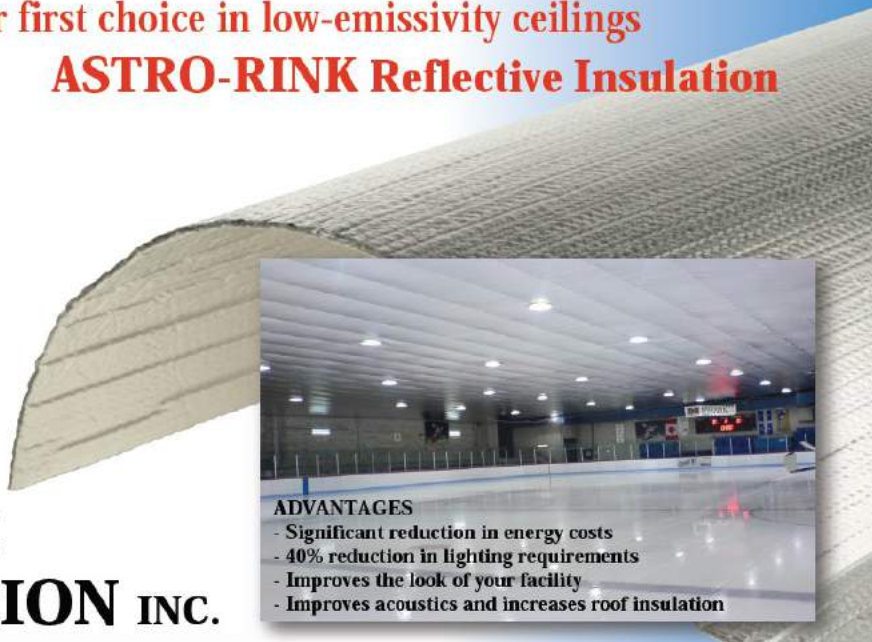


**ENERGIE
INNOVATION INC.**

www.energie-innovation.com
1-800-363-0931

2970 rue Halpern, St-Laurent, QC H4S 1R2

Your first choice in low-emissivity ceilings
ASTRO-RINK Reflective Insulation



ADVANTAGES

- Significant reduction in energy costs
- 40% reduction in lighting requirements
- Improves the look of your facility
- Improves acoustics and increases roof insulation

USED IN

- Ice Rink Facilities
- Gymnasiums
- Indoor Soccer & Tennis Facilities
- Commercial & Industrial Buildings

T. 514-334-3783

F. 514-334-3925

From front cover - Making Ice in PyeongChang - Part 5

Group A and the 2017 IIHF Ice Hockey Men's U-18 World Championship Division II tournament along with the Para Ice Hockey World Championships to test the ice hockey venues. These events allowed Don Moffatt, 2018 Winter Olympics Ice Hockey Chief Ice Maker, and I to complete a test run with all of the equipment (paint cart, Zambonis, paint, logos, monitoring equipment, etc.) and to compile a list of equipment that was left off the purchase list plus changes that were suggested to be made to the facilities.

One of the issues discovered during the test event was that the refrigeration equipment was operating off supply temperature and temperature sensors in the supply glycol header.



The refrigeration mode of operation was recommended to be changed to operate off of the return temperature thus being controlled by the floor temperature sensors. This will allow the skating surface to sense a heat load and react to maintain ice conditions during the games.

With every change there comes testing so Don returned this past September to install the ice again at the venues to confirm the operation of the refrigeration equipment and that it operates at maximum efficiency.

With just over 50 days remaining until the Games, the final preparations took place December 14th - 22nd, 2017 when I traveled to the hockey venues in South Korea to inventory and inspect all equipment. During this short one week trip, the ice making tools, Zambonis, blades, edgers, ice paint and painting equipment, ice monitoring tools, ice making tools/accessories, lodging, transportation and all other ice making equipment tools and their related logistics at

GHC/KHC Main and Prac-

tice rinks were inspected to develop a report of action items needed.

So we have tested, checked and re-checked in the attempt to be thoroughly prepared for the 2018 Winter Olympic Games. There will likely be a moment or two or three of that feeling of "uh oh", but luckily we are rink people - we adapt, change and overcome.

NOTE: Brandon Klement is contracting with the PyeongChang Winter Olympic Games this coming February in South Korea to serve as an Ice Technician for their hockey venues. He owns and operates Complete Ice Arena Services located in Dallas, Texas.



GO FOR THE GOLD!
COME WITH US TO LAKE PLACID!
April 22 - 26, 2018



NEISMA Rink Summit 2018

For thirty-five years, NEISMA has been active in the ice rink industry representing and servicing our members in the northeast region of the country. Over the past ten years or so, we have taken a leadership role in issues such as indoor air quality and workplace safety. In addition, we have made a concerted effort to coordinate our efforts with national organizations, such as the ISI - now the Ice Sports Industry - and the US Ice Rink Association - formerly known as STAR - as well as regional associations (MIRMA, WIAMA, etc.) and even assisted the Rocky Mountain Rink Association in getting established. We have been actively involved in ASTM matters and have stayed current with OSHA and EPA regulations as they pertain to ice rinks, all in an effort to be in forefront by being proactive instead of reactive.

When the decision was made to host our annual

Spring Conference and Trade Show in Lake Placid, NY - arguably the most iconic ice sports venue on the planet - we felt compelled to want to invite others to join us. We decided to host a meeting of leaders throughout North America involved in ice sports to come to Lake Placid on Monday, April 23, 2018 to address issues of common concern. We'll be reach-

ing out to folks over the next several weeks to ask for your input as to what items should be on our agenda for the day. We have some ideas but want to hear from you, as well.

Newly appointed NEISMA board member, Eric Dursin, who manages the Schneider Arena at Providence College, will be chairing this event. His contact information can be found on page 2 of this *Rink Rat*. Feel free to reach out to Eric and let him know your thoughts and ideas. We want this to be a collaborate effort for all those involved.



Available Through Feb. 1

**EARLY BIRD
DISCOUNT!**



Register at skateisi.org/conference

Valid for conference attendees only.

Hilton Alexandria Mark Center
Alexandria, Virginia
June 5-8



INTELLIGENT RESURFACING



Harness the power of data within your machine. Monitor consumption and optimize performance with predictive insight and resource management. Zamboni Connect™ is your new partner in rink management.

ZAMBONI. CONNECT™

zamboni.com/connect

ZAMBONI and the configuration of the Zamboni® ice resurfacing machine are registered trademarks of Frank J. Zamboni & Co., Inc. © Zamboni 2018

Chemical Inventory: How to File a Tier 2 Form

By Janet Bowen, EPA Region I

The federal Emergency Planning and Community Right-To-Know Act (EPCRA) requires facility owners and operators to annually report on the presence of hazardous chemicals at their facilities to their State Emergency Response Commission (SERC), Local Emergency Planning Committee (LEPC) and local fire department. **Hazardous chemicals subject to this EPCRA requirement may be found in numerous forms, such as in products, batteries, liquid solutions, solid materials, and other substances.** Note that sometimes the local fire department is also the LEPC. States, communities and citizens use this information to plan, prepare for, prevent and respond to any chemical spills, emergencies or releases at a facility.

Who needs to report?

Most ice rinks using ammonia as a refrigerant are subject to EPCRA Tier 2 reporting. You need to report if you have over 10,000 pounds of hazardous chemicals for which facilities are required to have a Safety Data Sheet (SDS) as required by Occupational Safety and Health Administration (OSHA). Some ice rinks may also have Extremely Hazardous Substances (EHS), which is a specific list with thresholds of 500 pounds or less. The most common Extremely Hazardous Substances found at ice rinks are ammonia and sulfuric acid, both of which have a 500 pound threshold for Tier 2 reporting. EPCRA Tier 2 forms are due by March 1, 2018 for the previous calendar year 2017.

Note that in New England, Vermont has a reporting threshold of 100 pounds for all chemicals. If you are outside of New England, be sure to check if your state has lower reporting thresholds.

The types of hazardous chemicals an ice rink might need to report include, but are not limited to:

- Ammonia (500 lbs EHS threshold)

- Non-ammonia refrigerant (10,000 lbs) – *Examples R22, R134a*
- Lead Acid Batteries: contain both sulfuric acid (500-pound EHS threshold) and lead (10,000 lbs). *Lead acid batteries can be found in zam-boni, trucks, maintenance equipment, and back-up generators.*
- Glycol solutions (10,000 lbs) – used as coolant
- Brine solutions (10,000 lbs) – used as coolant
- Sand (10,000 lbs)
- De-icer (10,000 lbs) *Examples: Salt, Urea*
- Backup generator's fuel *Examples: Diesel/#2 fuel oil/ propane*

Do I have to report for an ice skating rink that is only open for 3 months?



United States
Environmental Protection
Agency

Yes. The EPCRA annual reporting requirement is based on how much hazardous chemical you have

on-site at any one time during the previous year.

To whom do I submit Tier 2 forms?

The owner or operator of the ice rink is required to submit Tier 2 reports to their State Emergency Response Commission (SERC), Local Emergency Planning Committee (LEPC), and local fire department by March 1, 2018.

When are reports due?

Tier 2 reports are due annually by **March 1** for the previous calendar year.

How do I submit my annual Tier 2 form?

All New England states require electronic reporting. Some LEPCs and fire departments may request a hard copy.

Questions:

Contact Janet Bowen at EPA Region I.
617-918-1795 or bowen.janet@epa.gov.

Arena Curling Continues to Grow

By Russ Lemcke

Interest in the sport of curling is rather dramatic, partly due to Curling Night in America on NBC. This is expected to continue since NBC has scheduled many hours of coverage during the Olympics February 9 - 25, 2018. In addition, new arena clubs keep popping up, the most recent being:

Finger Lakes Curling Club Ithaca, NY
(<https://fingerlakescurling.org/>)



Curling Club of the Berkshires Pittsfield, MA
(<http://www.curlberkshires.org/>)

Interested in getting curling established at your rink? Contact Russ Lemcke at:

russlemcke@comcast.net



Curling Night In America

Episode 7: U.S. Mixed Doubles vs. Japan

<https://www.youtube.com/watch?v=QUBHBkaZV10>

Best for your skaters!
Best value for your money!

A New Generation of Injection Rental Skates
Better Ankle Support and More Durable

- * leather insole coated with rubber
- * leather for comfort
- * rubber for support and waterproof
- * choice of laces or buckle
- * made in Hong Kong

info@wisetech.com.hk
www.wisetec.com.hk

Find us on Facebook wisetechhk



QUALITY BOARDS

DEMAND EXPERT-LEVEL

ARENA PRODUCTS

North America's Leading
Dasherboards &
Arena Services Provider



800-809-7465
athletica.com

Athletica
SPORT SYSTEMS
Safety through innovation

2018 Spring Conference Schedule

Sunday, April 22

4:30 pm - 6:00 pm ISI University (Certified Arena Executive)

7:00 pm - 10:00 pm Welcome Reception

Monday, April 23

7:30 am - 8:30 am Coffee and pastries

8:30 am - 5:30 pm ISI University (Certified Arena Operator - Part 3)

8:30 am - 5:30 pm ISI University (Certified Skating Director)

8:30 am - 5:30 pm US Ice Rink Association (Ice Making and Painting Technologies)

8:30 am - 5:30 pm US Ice Rink Association (Operations and Risk Management)

9:00 am - 4:00 pm NEISMA Rink Summit 2018

6:00 pm - 9:00 pm President's Reception

Tuesday, April 24

8:00 am - 9:00 am Registration and breakfast

9:00 am - 9:45 am Welcome and Keynote Speaker (TBA)

10:00 am - 12:30 pm Educational Sessions:

NEISMA - "Making Ice in PyeongChang and the 2018 Winter Olympics"

ISI University (Continuation of CAO - Part 3 and CSD Certifications)

US Ice Rink Association (Continuation of ORM and IMPT Certifications)

12:30 pm - 1:30 pm Awards Luncheon

1:45 pm - 4:00 pm Educational Sessions (continued)

4:00 pm - 7:00 pm Trade Show

7:00 pm - 10:00 pm Social Event

8:30 pm - 9:30 pm NEISMA Cup Ice Hockey Game

Wednesday, April 25

7:30 am - 8:30 am Coffee and pastries

8:30 am - 11:00 am ISI University (Completion of CAO - Part 3 Certification)

8:30 am - 12:00 pm US Ice Rink Association (Completion of ORM Certification)

8:30 am - 5:30 pm US Ice Rink Association (Continuation of IMPT Certification)

Thursday, April 26

7:30 am - 8:30 am Coffee and pastries

8:30 am - 12:00 pm US Ice Rink Association (Completion of IMPT Certification)



Ice Making & Painting Technologies

This 4-day course will enhance the practitioners' refrigeration knowledge while increasing their operational effectiveness through proven ice installation principles.

Operations and Risk Management

This 3-day course reviews topics related to operating an ice arena safely and efficiently. Participants learn how to identify, assess and address safety and risk related items.

Certified Arena Operator - Part 3

This 3-day course is focused on refrigeration - theory and fundamentals, refrigerants and controls, maintenance and trouble shooting. Part 3 of 3 required courses.

Certified Skating Director

A certificate of completion will be awarded to all students after this 8-hour, one day, course. Topics include role of the Skating Director, human resources, and more.

Certified Arena Executive

This 90-minute seminar titled "Planning and Designing an Ice Arena Renovation, Expansion or Retrofit" is designed to help you devise both long and short term plans.



2018 CONFERENCE AND TRADE SHOW

Sunday, April 22 - Thursday, April 26

Olympic Center, Lake Placid, NY

ATTENDEE REGISTRATION (not for Exhibitors)

Facility Name: _____ Primary Contact: _____

Facility Address: _____ City: _____

State: _____ Zip: _____ Phone: _____ Fax: _____

Primary EMAIL																				
---------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

For ID Badge: _____ CAE Seminar NEISMA Cup Trade Show Only

First Name	Last Name	Conference Fee*	Add \$50 or \$20	Add \$20	Add \$50 or \$75	TOTAL
		\$		\$	\$	\$
		\$		\$	\$	\$
		\$		\$	\$	\$
TOTAL -						\$

PLEASE REGISTER EARLY!

CONFERENCE FEE*

	NEISMA Member Rates		Non-Member Rates	
Full Conference	Early Bird	\$ 145	Early Bird	\$ 245
Full Conference includes meals, functions listed, keynote, Tuesday seminar and Trade Show.	After 1/31/18	\$ 175	After 1/31/18	\$ 275
	After 3/31/18	\$ 200	After 3/31/18	\$ 300
Full Conference + US Ice Rink Association Certification	Early Bird	\$ 545	Early Bird	\$ 745
Choose one: <input type="checkbox"/> Operations and Risk Management <input type="checkbox"/> Ice Making & Painting Technologies	After 1/31/18	\$ 595	After 1/31/18	\$ 795
	After 3/31/18	\$ 645	After 3/31/18	\$ 845
Full Conference + ISI University Certification	Early Bird	\$ 275	Early Bird	\$ 375
Certified Arena Operator - Part 3	After 1/31/18	\$ 325	After 1/31/18	\$ 425
	After 3/31/18	\$ 375	After 3/31/18	\$ 475
Full Conference + ISI University Certification	Early Bird	\$ 195	Early Bird	\$ 295
Certified Skating Director	After 1/31/18	\$ 245	After 1/31/18	\$ 345
	After 3/31/18	\$ 295	After 3/31/18	\$ 395

OTHER CONFERENCE OPTIONS

CAE Seminar: Planning/Designing an Ice Arena Renovation	CAE Credit	\$ 50	Audit only	\$ 20
NEISMA CUP Hockey Game on 1980 Rink		\$ 20	Not available	
Trade Show Only		\$ 50		\$ 75

BEST WAY TO REGISTER: Online at www.neisma.com (NEISMA members only).

Or by check payable to **NEISMA**. Mail registration to: **NEISMA, P.O. Box 290595, Wethersfield, CT 06109.**

Or by Mastercard, Visa or AMEX: email **scanned copy to email@neisma.com** or **fax copy to 1-888-234-3968.**

Or by phone: **1-888-234-3968** and ask for John Zullo.

CC# _____

Exp. ____ / ____ 3 or 4 Digit Code _____ CC Zip Code _____

Name on card: _____ Signature: _____

Ten New Year's Resolutions

1. Visit the Olympic Museum in Lake Placid, NY.
2. Go up the elevator to the top of the Olympic Ski Jumps at Lake Placid, NY.
3. Take a gondola ride up Whiteface Mountain in Lake Placid, NY.
4. Experience the Olympic Bobsled ride at Lake Placid, NY.
5. Visit the Jack Shea Arena, site of the 1932 Winter Olympics in Lake Placid, NY.
6. Visit the Olympic Speed Skating Oval in Lake Placid, NY.
7. Skate on the 1980 Rink / Herb Brooks Arena, site of the "Miracle on Ice", in Lake Placid, NY.
8. Take a walking tour around the historic village of Lake Placid, NY.
9. Attend an event at the scenic Great Room of the Crowne Plaza Hotel in Lake Placid, NY.
10. ATTEND THE NEISMA SPRING CONFERENCE AND TRADE SHOW APRIL 22 - 26, 2018 IN LAKE PLACID, NY **AND DO IT ALL!**

EARLY BIRD DEADLINE

For the

LOWEST CONFERENCE FEES IS

JANUARY 31, 2018

Do us all a favor!

DON'T PROCRASTINATE!

Let us know you'll be there!



*Products Developed by
Ice Makers
for Ice Makers®*



**Easy In Textile Logos
Paper Stencils**



**Super White 3000
Liquid Colors**



**Pro Ice Reverse Osmosis
Water Treatment**



**Paint Stick
Spray Systems**



1-800-585-1079

www.jetice.com





70 Finnell Drive, Weymouth, MA 02188
781.331.6750 Phone
www.bjorkmanindustrial.com

Industrial Battery and Charger Sales • Service • Rentals • Parts • Battery Handling Systems

That's Bjorkman Industrial Power – “Ice Rinks Power Solutions” from the experts you can trust!!!

MOTIVE POWER PRODUCTS:

- Zamboni / Olympia Batteries
 - Flooded
- CEC Compliant HF Smart Chargers
- Industrial Ferroresonant Chargers
 - Ferroresonant/HF/SCR
- Battery Management Tools
 - Wireless Battery Health Monitors
 - Single Point Battery Watering Systems
 - Battery Water Level Lite Monitors
 - Water Deionizers Filtering Systems
 - Scheduled “Battery Health Reports”



DEKA ZAMBONI BATTERIES
BEST BUILT IN THE INDUSTRY

PROFESSIONAL SERVICES:

- Full Field & Shop Service
 - Factory Trained Technicians
 - Inspections & PM Programs
 - Long & Short Term Rentals
 - Mobile Battery Wash
 - Single Point Watering Systems
 - Battery Watering Contracts
 - Guaranteed Repairs
 - Delivery, Installation & Pick-up Service
 - EPA Certified Scrap Disposal
 - Battery Room & Acid Spill Kits



HIGH FREQUENCY SMART
CHARGER



HIGHLY EFFICIENT
SAVES YOU ENERGY COSTS

NEIMSA MEMBERSHIP

(AS OF 12/15/17)

Colleges

Amherst College
 Babson College
 Bentley University
 Boston College
 Boston University
 Brown University
 Colgate University
 Connecticut College
 Curry College
 Dartmouth College
 Endicott College
 Niagara University
 Northeastern University
 Plymouth State University
 Princeton University
 Providence College
 Quinnipiac College
 Saint Anselm College
 SUNY Brockport
 SUNY Cortland
 Syracuse University
 University of Connecticut
 University of Delaware
 University of New Hampshire
 University of Pennsylvania
 University of Vermont
 US Naval Academy
 Yale University

Prep Schools

Berkshire School
 Bridgton Academy
 Brooks School
 Brunswick School
 Eaglebrook School
 Harvey School
 Kents Hill School
 Kimball Union Academy
 Lawrenceville School
 Middlesex School

Millbrook School
 Milton Academy
 New Hampton School
 Newton Country Day School
 Phillips Academy
 Proctor Academy
 Rye Country Day School
 Salisbury School
 South Kent School
 St. Mark's School
 St. Paul's School
 The Pingree School
 The Roxbury Latin School
 Westminster School
 Williston Northampton School
 Winchendon School

Public/Private Rinks

Aleixo Arena, FMC
 Amelia Park Ice Arena
 Armstrong Arena, FMC
 Asiaf Arena, FMC
 Blackstone Valley IcePlex, FMC
 Breakaway Ice Center
 Buffone Arena, FMC
 Burbank Ice Arena
 Burlington Ice Palace, FMC
 Canton Sportsplex
 Central Vermont Memorial C C
 Charles Moore Arena
 Chelmsford Forum, FMC
 City of Chilliwack
 Collins Perley Sports Center
 Collins/Moylan Arena, FMC
 Connery Rink, FMC
 Cronin Rink, FMC
 Danbury Ice Arena
 Darien Ice House
 DCU Center
 Dix Hill Ice Rink
 Dorothy Hamill Rink

Douglas N. Everett Arena
 Dover Ice Arena
 Driscoll Skating Arena, FMC
 Ed Burns Arena
 Edora Pool Ice Center
 Edward F. Loring Ice Arena
 Essex County South Mountain
 Essex Skating Facility
 Facility Management Corporation
 Falmouth Ice Arena
 Fitzpatrick Arena, FMC
 Flemington Ice Arena
 Floyd Hall Arena
 Franklin-Pirelli Veterans Arena, FMC
 Gallo Ice Arena
 Gardner Veterans Arena, FMC
 Greater Canandaigua Civic Ctr
 Greenwich Skating Club
 Hatfield Ice Arena
 Hetland Arena, FMC
 Hobomock Arenas
 Holland Arena
 Horgan Arena, FMC
 HPP Rinx, Inc
 Hyannis Youth & Community Center
 Ice Rink Events
 Ice World
 James W. Campion III Rink
 JFK Coliseum
 Jim Roche Arena, FMC
 John A Ryan Skating Arena
 Kirk S Nevin Ice Arena
 Leddy Park Arena
 Maine Ice Vault
 MassMutual Center
 McVann - O'Keefe Memorial Rink
 Midcoast Recreation Center
 Nantucket Ice Company
 Nashoba Valley Olympia
 Navin Arena, FMC
 Nelson Withington Skating Facility

NEISMA MEMBERSHIP

(AS OF 12/15/17)

New England Sports Center
NorthStar Ice Sports
Oaks Center Ice
Ocean Ice Palace
Olympia Ice Center
Optimist Ice Arena
Paramount Iceland
Pilgrim Skating Arena
Pop Whalen Arena
Porrazzo Arena, FMC
Power Play Rinks
Quincy Youth Arena
Raynham IcePlex, FMC
Revolution Ice Gardens
Riley Rink At Hunter Park
Rink Services Group
Simoni Ice Rink, FMC
Skate 3 Arena
Smead Skating Rink, FMC
Smithfield Municipal Ice Rink
Sport-O-Rama Ice Rinks
Stamford Twin Rinks
Stoneham Arena
Terry Connors Rink
The Edge Sports Center
The Forum, City of Presque Isle
The Gardens Ice House
The Ice Center
The Rinks at Exeter
The Skating Club of Boston
Tony Kent Arena
Town of Hoosick
Union Arena Community Center
Union Sports Arena
Valley Sports Arena
Veterans Memorial Ice Skating Rink
Wallace Civic Center, FMC
Warrior Ice Arena
Watertown Municipal Arena
Westchester Skating Academy
William L. Chase Arena, FMC

Wissahickon Skating Club
Vendors and Friends
Affinity Led Lighting
All-American Arena Products
American Insurance
American Refrigeration Company
Arena Warehouse
Asahi/America
Athletica Sports Systems
Becker Arena Products
Big Shine Energy
Bjorkman Industrial Power Corp
Carnot Refrigeration Co.
CIMCO Lewis Refrigeration
Climate by Design International
Davis Mechanical Service
Dis-Tek Solutions
Energie Innovations
Everything Ice
Farmer Brown Service Inc
G&A Insurance
Honeywell-refrigerant
Ice Sports Industry
ICECO Advanced Arena Products
Independent Mechanical Contractors
Intell Energy
J&C Ice Technologies Inc
Jet Ice
LiveBarn
MIAMA
Miller Refrigeration
MIRMA
Mollenberg Betz, Inc
Munters / EI Solutions
Nedap Light Controls
New England Sports Sales
Northeast Rink Systems
ORFA
Paris-Kirwan Associates
Precision Industrial Services
Philip Siena

Polygon US Corporation
Preferred Mechanical Services
Recco
Resurfix
Riedell Shoes
Rink Seal Pro
Rink Systems Inc.
Safehold Special Risk
Scoreboard Enterprises
Sharper Edge Skating School
Sparx Hockey
StinkySocks Hockey
US Ice Rink Association
Viking Ice Painting
W.A. O'Leary -Sustainable Tech
WIAMA
Wisetech (HK) Limited
Zamboni Company
ZeoTec

PLEASE NOTE:

If you don't see your name listed, please contact John Zullo and he will assist you in renewing your membership or becoming a member.

888 - 234 - 3968

jzullo@neisma.com

**Thanks for being a
part of NEISMA!!**



I'm Just Sayin'...

By Eric Dursin, CIRM

(NOTE: *I'm Just Sayin'* is a new opinion column that will be appearing regularly in the Rink Rat. It focuses on issues related to the ice rink industry, but it may venture into other areas at times. Readers are encouraged to submit ideas or topics that add value to future columns. Enjoy!)

- If you have not walked along your dashers in a while, I think you will be surprised how many screws are loose or missing.
- Why do I love painting a rink but hate painting at home?
- Arena and locker room rules should be clearly displayed in a public area of your facility; did you forget we live in a literal world?
- Yes, I am a rink person and no I cannot help you with your outdoor rink.
- Something I just learned the other day: the hydrostatic gear shifter on the Zamboni will regulate the speed of the machine no matter how far the peddle is down.
- If one set of batteries on an automatic toilet flusher dies, the other ones are not far behind.
- Trivia: Which American city has hosted the Winter Olympics twice?
- Is there anything worse than white pucks?
- Still blown away by mite teams doing full ice practices.
- Rink patron question: (Points to level ice system) is that a GPS?
- Why do youth coaches continue to think its ok to diagram plays on the rink glass?
- A custom designed rink diagram white board with depth points are great to put in the IR room for all to see.
- Bolt cutters are always a great tool to have in the rink when you get home and the master lock key is in your pocket... and tomorrow is your day off.
- The mileage charged on your repair quote is somehow very acceptable when your machine

goes down on a Friday night.

- Then you get really upset a few weeks later when the invoice comes in.
- Like it or not, President Trump is in the rink business.
- Can we bring the Ice resurfacers rodeo back? Asking for a friend.
- Magnetic advertising on your machine is great; it is much easier to take off after they miss their first payment.
- If you are not billing your user groups directly for damage in your facility you should be.
- Trivia answer: Lake Placid, in 1932 and 1980 --- have you signed up for the NEISMA spring conference yet?

(Continued on page 24)

INDEPENDENT
Mechanical 
Contractors Inc.

New England's Leader in:
 Ice Rink Design/Build
 Ice Rink Package Systems
 Ice Rink Maintenance

21G Olympia Ave, Suite 60
 Woburn, MA 01801
 (781) 287-0415

www.IndependentMechanical.com



Choose the Experts in Arena Management Software

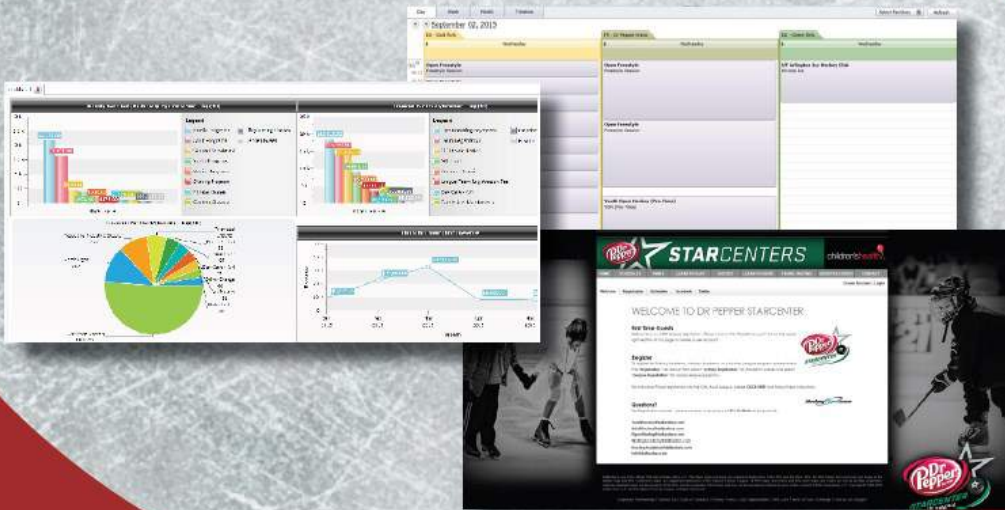
Increase profitability with our MaxGalaxy cloud solution
Streamline your business processes
Reach more customers with Online Registration

**Call 855-686-3493
for more
information!**

MaxGalaxy Modules

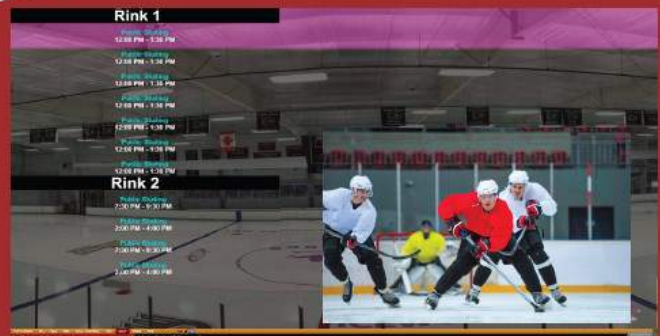
- Facility Scheduling
- Activity Registration
- Membership Management
- Point of Sale & Inventory
- League Scheduling
- Online Registration
- Digital Signage

*Plus many more



We are excited to be working with a company that is continuing to evolve and develop software that meet the ever changing needs of recreational facilities!

- Beth Lenz, Kettler Capitals Iceplex



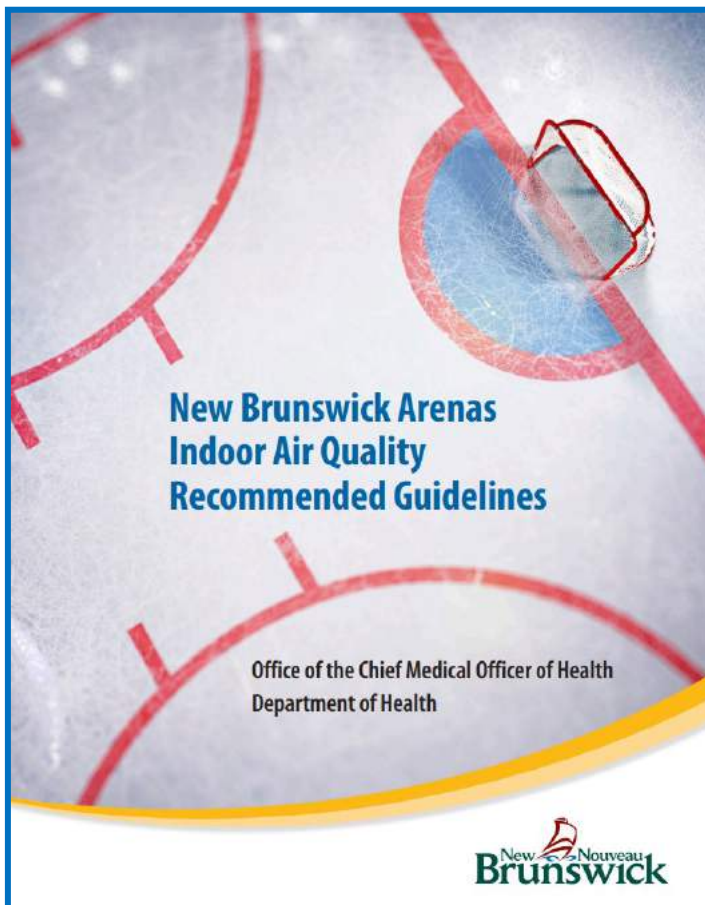
Snow and Air Quality Issues at Your Rink

By Tom Morton

Someone once said that if it is going to happen it will happen first in the ice rink industry. Sure enough, for the first time in my over 25 years involvement with the ice rink industry, an air quality (AQ) incident has been reported that was caused by snow.

The Red Ball Center's ice rink operator in Moncton, NB, Canada reported last year that, due to snow build up on the roof, toxic fumes seeped into the building because heat pipes on the roof were blocked.

As a result of AQ incidents, the New Brunswick, Canada Department of Health recently published the "New Brunswick Arenas Indoor Air Quality Recommended Guidelines". For the purposes of this article I am only going to provide a synopsis of some of the high points of the referenced NB "Guidelines".



In issuing the referenced "Guidelines", a member of the NB Department of Health stated "We thought it would be a good step to prepare a document based

on "Health Canada Guidelines". The Executive Director of Moncton Minor Hockey added "player safety is their utmost concern".

In the "foreward" of the referenced "Guidelines", the NB Department of Health stated "The purpose of these guidelines is to provide public health recommendations for limiting public exposure to indoor carbon monoxide and nitrogen dioxide". The Guidelines state that the sources of carbon monoxide are mostly:

1. The ice resurfacer.
2. The ice edger,
3. Improperly vented gas infrared radiant heaters,
4. Special event equipment (motorcycles, monster trucks, tractor pulls, ATV races, etc.).
5. Vehicles idling in the parking facilities in close proximity to the building.

Sources of Nitrogen Dioxide are mostly:

1. The ice resurfacer (mostly diesel),
2. Special event equipment (motorcycles, monster trucks, tractor pulls, ATV races, etc.),
3. Vehicles (such as busses and trucks) idling in the parking facilities in close proximity to the building.

The referenced "Guidelines", when AQ incidents occur, recommend the following actions:

1. All activities should be stopped.
2. The buildings should be cleared of occupants if necessary.
3. Affected individuals should be advised to seek medical attention.
4. The building should be ventilated.
5. Air sampling should be done.
6. The incident should be reported to the Emergency Services (911) and the Regional Public Health office.
7. The source of air contaminant should be identified and control measures should be undertaken without delay and completed prior to the public returning inside the building.

With regard to snow buildup, the NB Fire Department recommends that snow be cleared from

(Continued on page 23)

(From page 22 - Snow and Air Quality Issues)

vents. As an aside, this recommendation should probably be included on an ice rink operator's winter check list. Ventilation is a must in all ice rinks.

In this regard the referenced NB Guidelines states as follows:

- *Mechanical or natural ventilation can effectively reduce concentrations of air contaminants in an arena. There are advantages to both methods of ventilation, and therefore, each facility may incorporate measures best suited to their particular situation.*

A. Natural Ventilation

Natural ventilation is provided by doors, and/ or any opening within the structure which will allow for an exchange of air. It is also dependent on many environmental conditions (i.e. wind velocity, temperature, etc.). Caution should be used as to not allow outdoor contaminants such as exhaust from idling vehicles to enter the building.

There is little control with this type ventilation, but there are steps which can increase the efficiency of combustion product removal during resurfacing operations:

- Opening exterior doors and/or make-up air

louvers provides an added source of fresh air during ice resurfacing.

- Opening resurfacers entrance doors (onto the ice surface and to the outside) during resurfacing will create air movement within the confines of the ice dasher boards.

B. Forced Mechanical Ventilation

In new airtight arenas, there is a need for a more controlled method of exhausting and supplying air to supplement natural ventilation. Mechanical ventilation has the advantage of being an operator controlled system. In order for the ventilation to be effective.

- The system switch must be turned on and operating effectively,
- The air flow distribution must be adequate to avoid dead spaces,
- The air flow volume must be capable of preventing the accumulation of toxic gases to an unsafe level,
- The air that is introduced in the building must be free of outside air contaminants.

The amount of mechanical ventilation required depends on:

- The frequency of the resurfacing operations
- Air distribution inside the building
- The combustion gases emitted from the equipment (Usually Co is used as a benchmark)
- The internal size of the arena
- Whether the arena will be used continuously or only during a few hours each day.

Adequate air volume replacement should be delivered at the opposite end of the arena from the exhaust to ensure an air flow along the entire length.

An effective air quality testing program should be carried out on a regular basis. Accurate testing equipment and records of results should be on-hand. Staff should be trained in air testing equipment use."

The New Brunswick air quality incident is a good example that AQ incidents in the ice rink industry do continue to occur. Snow as the cause of an AQ incident should be a matter of concern as we head into our busy winter season.

(NOTE: A pdf file of these guidelines can be found online by Google searching the title.)

"GET HOME ICE ADVANTAGE"

with

Recco 

**REFRIGERATION DESIGN
QUALITY INSTALLATION**

EXPERT SERVICE

800-990-9ICE

Call 24/7 (781) 396-8780

www.reccousa.com

(From page 20 - *I'm Just Sayin'...*)

- Any arena project manager or builder who questions the number of locker rooms you need in your facility has not visited the rink on a Saturday afternoon.
- For some extra flair, bring your ice resurfacers to a local screen printer and have them screen-printed with your facility name/logo.
- Chewing gum remover works great for small blowouts...but not on lines or logos as it will frost bright white.
- If you have bad water in your facility, you are asking for trouble if you fill your IR batteries with it.
- Teams that skate their players and leave the cones/nets in the same spot is the equivalent of nails on a chalkboard for the rink staff.

Although it is our busy time of the year, I hope you all get time to spend with your family and friends! Happy holidays!

ASTM Re-Visited

By Tom Morton

Many of our NEISMA members may recall from past Rink Rat Articles that for many years since approximately 1991 NEISMA has been indirectly and directly involved with ASTM. No doubt many new NEISMA members perhaps may not be conversant with ASTM and the importance of the Ice Rink Industry's involvement with ASTM. Hence it perhaps may be timely to revisit ASTM.

ASTM stands for the "American Society for Testing and Materials". The Society is a private non-profit corporation universally known as ASTM.

ASTM is now international in scope. It has more than 30,000 global members, all of whom are volunteers and who serve on various ASTM Committees, Subcommittees and Task Groups. ASTM is one of the largest voluntary standards development organizations in the world.

It is represented in 135 countries and it has approximately 141 Technical Committees and many more Subcommittees and Task Groups.

On average, ASTM publishes more than 10,000 standards every year. These standards are used throughout the world.

What is a standard? Basically, a standard is a document that has been developed and established within the consensus principles of ASTM and that meets approval requirements of ASTM procedures and regulations.

Safety Standards are included within the scope of the following six principal standards:

1. Standards for Test Methods
2. Standard Terminology
3. Standard Guides
4. Standard Classification
5. Standard Practices
6. Standard Specifications

NEISMA, thru the Ice Rink Industry Subcommittee has been directly involved in ASTM Safety Standards that affect or impact the Ice Rink Industry and each

Score with ARID-Ice®!
Industry Leader in Ice Arena Dehumidification

- ✓ Extend your season
- ✓ Eliminate fog, dripping and mold
- ✓ Ease the installation of your ice sheet

Contact our application specialists to learn how your arena can benefit from ARID-Ice® technology.
www.cdihvac.com | sales@cdihvac.com

ARID-Ice®
by Climate by Design INTERNATIONAL

CALL 507-451-2198 TODAY!

MADE IN USA

(Continued on page 25)

(From page 24 - ASTM Re-Visited)

local ice rink. ASTM Subcommittee F08.66 includes the Ice Rink Industry. Tom Morton is presently the Chairman of the Subcommittee.

ASTM has two conferences per year at different state locations. ASTM subcommittees meet to address standards and proposed standards. However, other than ASTM Subcommittee F08.66 there are other ASTM Subcommittees that also address Safety Standards that impact the Ice Rink Industry and which require participation. Therefore, Tom Morton also participates in such other Subcommittees on behalf of the Ice Rink Industry such as:

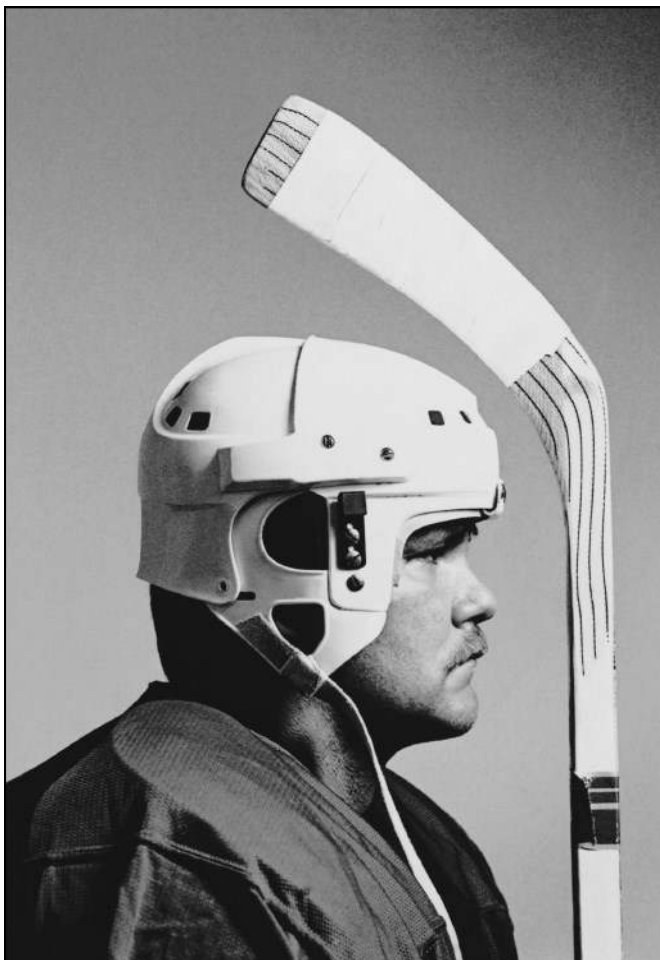
1. D22 Air Quality
2. E04 Fire Standards
3. E34 OSHA

4. E50 Environment Assessment
5. F08.15 Ice Hockey
6. F08.51 Medical Aspects (Hockey etc.)
7. F08.66 Ice Hockey Facilities
8. F08.99 Long Range Planning
9. F08.53 Helmets and Headgear
10. F08.53 Curling
11. F08.53 Helmet Rentals
12. F08.57 Shirt Sleeve-various standards



Matters pertaining to the Ice Rink Industry are shared with our NEISMA membership by articles in the Rink Rat, by seminar at annual NEISMA conferences and by circulation of proposed Safety Standards for member comment. We also address Warning and Safety Labels on

behalf of our industry. Our ASTM long standing participation has been an ongoing NEISMA membership benefit.



Protection Made Personal.

Insurance from people you trust.

G&A Insurance is a premier provider of property and casualty insurance for ice rinks. Located in Dover, NH, G&A Insurance has a staff with over 30 years experience insuring the ice skating industry. To learn more about the G&A difference and how we can work together to meet your needs, contact Jeff Gray at 603-742-2644 ext. 118 or email jdgray@gandainsurance.com.

ICE RINK PROGRAM COVERAGES

- Property, Crime and Equipment Breakdown Coverage
- Liability and Excess Liability Insurance
- Worker's Compensation
- Specialty coverages including: Pollution Liability, Directors and Officers Liability, Employment Practices Liability, Digital Risk Coverage and more...

www.gandainsurance.com

G&A INSURANCE, INC. 34 Dover Point Road, Ste #200, Dover NH 03820
p: (603) 742-2644 e: info@gandainsurance.com

2018 WILLIAM CHASE MEMORIAL SCHOLARSHIP APPLICATION

Name: _____ Signature: _____

Address: _____

City: _____ State: _____ Zip: _____

Home Phone: _____ Email address: _____

Parent(s) Name(s): _____

High School attended: _____ Year Graduated _____

College/University enrolled in the Fall 2018: _____

Major/Minor: _____

Rink industry work history: _____

NEISMA Member Affiliation (dues paid 2017 – 2018):

Facility/Company Name: _____

Manager/Owner Name: _____

ESSAY (Please include one page, single spaced.)

Please explain how your personal history (school, extracurricular activities, jobs, hobbies, involvements, etc.) has shaped your future plans in your pursuit of a college education and possible career.

ELIGIBILITY

The 2018 William Chase Scholarships are open to employees and children of employees of current NEISMA members (rinks and vendors alike). Student applicants shall have worked a minimum of two (2) seasons in a NEISMA member organization, or the student's parent shall have worked a minimum of five (5) years in a NEISMA member facility or company. Students shall be high school graduates and be enrolled into an accredited college or university in the Fall of 2018.

CHECKLIST

A complete application shall consist of the following:

- _____ The above application filled out will all necessary information completed.
- _____ A letter of recommendation from a NEISMA member (facility or business owner/manager, etc. - please no relatives).
- _____ Your most recent high school transcript.
- _____ A one (1) page, single spaced essay on the abovementioned topic.

APPLICATIONS SHALL BE POSTMARKED NO LATER THAN MARCH 15, 2018.

Applicants will be notified in early April. Scholarships will be awarded at our annual Spring Conference.

Send to: NEISMA, P.O. Box 290595, Wethersfield, CT 06129.



PO Box 290595
Wethersfield, CT 06129

**2018 Spring Conference
and Trade Show**

Honeywell
Refrigerants



PLATINUM SPONSORS

North East Ice Skating Managers Association

www.neisma.com | 888-234-3968



Book Your Room Now at the Crowne Plaza - Lake Placid!

<https://aws.passkey.com/event/49466935/owner/46967/home>

2018 Spring Conference Registration Information Inside
Early Bird Discount - Deadline January 31st!