



March 2018

rinkrat

Making Ice in PyeongChang - Part 6

By Brandon Klement, CIRM

Well, the opening and closing ceremonies of the 2018 Winter Olympic Games have come and gone and now the Paralympic events are in full swing. We have been here since January 9th, 2018 prepping and installing the field of play (FoP) for the two competition and practice rinks for the ice hockey portion of the 2018 Winter Olympic Games and now we are at Gangnueng Hockey Center maintaining the ice for the 2018 Paralympic Sled Hockey Games.



It has been a whirlwind the past two months. The first three weeks were spent installing both Gangnueng Ice Hockey Center and Kwangdong Hockey Center Competition skating surfaces along with their practice facilities. All four venues were painted and built with a spray wand to ensure that the athletes will experience some of the best Olympic Ice ever.

The women kicked off ice hockey with practices that started the first of February and Sweden and Japan played the first ice hockey game at Kwandong Hockey Center (hockey 2).

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President's Message

by Ben Ruggles, CIRM, PMP



The NEISMA Board of Directors has been working diligently over the past few months planning and preparing for our upcoming Spring Conference and Trade Show in Lake Placid, New York, which starts Sunday, April 22nd and runs through Thursday, April 26th. Please see **page 14** for a complete schedule of classes and activities. We have a lot to offer members and non-members alike so hopefully you and your staff will join us!

First, we are offering five (5) different Certification Courses - three through ISI and two through US Ice Rink Association. See **page 4** for a description of each of these classes.

In addition, NEISMA will be featuring Don Moffatt and Brandon Klement on Tuesday during the Conference who will be back from South Korea after being directly responsible for the quality of ice at the hock-

ey venues in PyeongChang for the Olympic Games as well as the Paralympic Games. You won't want to miss this presentation!

We will also be hosting a variety of social activities beginning with our Welcome Reception on Sunday night. We are also arranging for a curling demonstration on the USA Rink for those who would like to try their hand at this up-and-coming sport. Monday night is our popular President's Reception in the Great Room of the Crowne Plaza Hotel. Tuesday night we will host an event in the Herb Brooks Arena and will include ice skating for attendees (bring your skates although rentals will be available) as well as the annual NEISMA Cup hockey game on the 1980 Rink. Wow! What a night!

Of course, the Tuesday night activities are immediately following our popular Trade Show. Over

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forty vendor booths will be available for attendees to visit for the “latest and greatest” in the ice rink industry. We’ll also have representatives from other regional rink associations on display, as well!

Something that NEISMA is very proud of this year is the hosting of the inaugural “Rink Summit” on Monday, April 23rd. See **page 10** for a listing of those organizations who’ll be represented at this meeting. We’re in the process of putting the agenda together but it will include topics of interest to everyone involved in ice arenas and ice sports. We have brought in Dr. Adam Naylor - who has participated in our last two Spring Conferences - to facilitate our discussions. This will be a very worthwhile event and we will be sure to go away with some new information, ideas and partnerships to bring home with us.

Included in this issue of the *Rink Rat* is the 6th and final installment of our “Making Ice in PyeongChang” series, once again authored by Brandon Klement. This article also serves as a “tease” to

his and Don’s presentation on Tuesday.

This issue also features the return of EYE, a popular scribe who has been on a hiatus for a couple years. EYE reviews the recent movie “EYE, TONYA” on **page 12**. Welcome back, EYE! We’ve missed you!

We also have two articles on the sport of curling (**pages 7 & 16**), which appears to be gaining huge momentum throughout the U.S. thanks to the men’s gold medal victory in the Olympics. Besides me, who else is jumping on this exciting bandwagon!?

Additional articles include OSHA regulations regarding employee training, ice cubes replacing an ammonia plant, asking civic organizations for money to support youth activities, and Bentley University’s unveiling of their new ice arena. A little bit of everything in this March’s issue! Thanks to the authors!

In closing, I want to encourage you to attend our Spring Conference in Lake Placid next month. Yes, it’s an effort. Yes, it’s a haul. But I assure you, it will be worth your time, effort and money. We hope to see you there!



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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 trouble shooting. A certificate of completion will be issued. This is Part 3 of 3 course tracks needed for CAO certification.



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IS THERE A FUTURE FOR ARENA CURLING?

By Tom Morton

American sports history was made in the 2018 Winter Olympics held in South Korea in connection with the sport of curling.

Hard to believe it happened!

The American Curling Team was way down on the list with 4 losses, but a miracle happened. The team came together and came from way behind to win 5 straight matches. As Yogi Berra was quoted as saying "It Ain't Over Till It's Over". The American Curling Team proved that point and in so doing they won the Gold. The first time ever for an American Curling Team. My, what an accomplishment.

The team consisted of John Shuster, Tyler George, Matt Hamilton, John Landsteiner and alternate Joe Polo.

They won over Sweden and were not expected to do so. A major surprise. John Shuster's five point shot was the deciding factor. Their win was a major upset.

Another major upset while on their way to Gold was the American teams win over three time defending Gold medalist Canada. As one comedian used to say, "How sweet it is".

Curling has been a sport in many other countries around the world for a very long time. But it has been very slow getting started in the USA. Very few ice rinks in the Ice Rink Industry have become involved with the sport of curling even though it has been an ice centered sport.

The American Curling Team's come from behind win of the Gold medal on national television has no doubt certainly changed the American public's perception of the sport. It is certainly competitive, challenging, filled with strategy and it is entertaining. Also all ages can play this sport. One of the major curling teams had a 17 year old as a key player.

Young athletes need to take due notice of the

American team's win that proves with determination, strong mind set, tempered with some degree of patience it is still possible to win even when you're way down on the loss column. A good lesson to be learned by our athletes.

Now, to the basic question for those of us in the Ice Rink Industry. Is curling a sport for you to consider and can you sell ice time particularly in off season? Selling ice time is one of the major goals of every ice rink. If you have not already done so, perhaps now would be a good time for an Ice Rink Manager and Owner to consider the sport of curling. It might well make a difference in your rink's profit and loss position.

Yes, curling may well have a future in our Ice Rink Industry.

Want to know more about the sport of curling then contact our NEISMA officers. NEISMA has contacts with the Curling Industry that can help provide you with detailed information.

Hey! Let's think curling. The betting odds say that the sport of curling is going to be a prominent sport in the USA and arenas should "strike now while the iron's hot"!



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OLYMPIC ICE MAKERS TO PRESENT AT SPRING CONFERENCE

NEISMA is very excited to have Don Moffatt and Brandon Klement - the two ice gurus of the hockey venues at this year's Winter Olympics in PyeongChang, South Korea - as our featured speakers at this year's Spring Conference.

Moffatt (pictured to the right) is the Chief Ice Maker for this year's Winter Olympic Games and Paralympic Games. He has been working with the hockey venues for well over a year now in preparation of these very special international competitions.

Similarly, Klement is the lead ice technician for the hockey venues and works closely with Moffatt to provide the best ice surface possible. Based on the feedback received, they succeeded in doing so!

Their presentation will be on Tuesday, April 24th, starting right after breakfast and continuing through

the afternoon, right up until the Trade Show begins at 4:00 pm. You won't want to miss this very informative session!



Photo by Chayce Lamphear

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From front cover - Making Ice in PyeongChang - Part 6

We have been getting many comments via social media and personal texts about how wonderful everything looks as everyone watched the late game early in the morning. The encouragement was and is still greatly appreciated as we are heading into our last two weeks of our three month journey.

The ice for the games was a solid 1.25 inches above the logos and held a consistent -6C (21F) surface temp as we constantly worked it before the games shaving and adding water to keep the refrigeration system where we wanted it to react when we needed it but keep the skating surface where the players wanted it.



The ice took a beating with three games per day for seven days in a row but the FoP stood its ground. Below is how we held our ground with three games to keep the ice a consistent -6C and the players on top of the ice. We have found that with what we are given that the FoP responds well to a consistent resurfacing to keep the refrigeration operating to allow it to react when needed and keep it in good condition from period to period and game to game.

- Heavy resurface two hours prior to game
- Ice depths and edging while ice temps recover
- Final pre-game resurface 30 minutes before warm up
- Heavy resurface after warm up
- Resurface after 1st and 2nd adjusting water and cut depth to ice conditions
- Heavy resurface after game
- Decrease set point to accommodate second two games
- Repeat process

- Build Ice at nights end if needed to return to ice depths at days start

After the men’s gold medal game we raised the set points to -3C (26F) to have the floor at a warmer temperature to not waist time waiting for the floor to warm up before cutting the ice down to change the Olympic logos to the Paralympic logos.

The past week was spent cutting the ice down on both the competition rink and the practice rink over the Olympic logos that were being changed. We then whited out the logos, sealed the white in and installed the Paralympic logos.

We are in our third day of practice for the Paralympics and are excited to get the games started and we are even more excited to get back home and see everyone in April for some more around the rink stories. **I hope to see you in Lake Placid!!!**



NOTE: Brandon Klement is the lead ice technician for the hockey venues for the recent Winter Olympic Games. He owns and operates Complete Ice Arena Services located in Dallas, Texas.

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NEISMA Rink Summit 2018 Lake Placid, NY

NEISMA is proud to host the inaugural "NEISMA Rink Summit" at our Conference in Lake Placid on Monday, April 23rd.

A goal of the NEISMA Board of Directors has been to get the representatives of ice rink associations from throughout North America to gather in one room to discuss common issues that effect us all. The response from the invitations has been overwhelmingly supportive of this initiative.

The agenda for the day-long meeting is still being determined. The well-known and well-respected Dr. Adam Naylor will be facilitating the discussions.

Indicating that they will be at the table:

- ◇ Ice Sports Industry
- ◇ United States Ice Rink Association
- ◇ Ontario Recreation Facilities Association
- ◇ Facility Operations Managers Association
- ◇ Wisconsin Ice Arena Managers Association
- ◇ Minnesota Ice Arena Managers Association
- ◇ Metropolitan Ice Rink Managers Association
- ◇ Rocky Mountain Rink Association
- ◇ North East Ice Skating Managers Association

More information will be released in April.

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- ISI University (ISIU)
 - Certified Arena Manager (CAM) Part 1
 - Certified Arena Operator (CAO) Part 2
 - Certified Arena Programmer (CAP) Part 2
- ISI Annual Awards Ceremony
- One-Day Trade Show on Thursday
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“EYE” Comes Out of Retirement for Movie Review

EYE had retEYEd - finished, done. Recently, Eye was contacted by NEISMA Rink Rat Poohbahs and asked to wrEYEte a review of a movie with EYE's name in the tEYEtle, that movie of course being “EYE, Tonya.” EYE deLEYEberated, pondered, negotEYEated and accepted. Without further ado, here is the review:

One Rink Manager's Take on:

In summarEYE, EYE loved it! From the comfEYE (power!) seating (EYE hadn't been in a theater in decades) to the actual Tonya skating vidEYEo played during the credits, EYE, Tonya brought me back to a different era, when figure skating took center stage ahead of all other sports.

PrEYEar to the 10:00 show (the film began at 10:18), EYE passed a gEYEant display (right) of Tonya sitting on a rink chair, as EYE have seen thousands of figure skaters sit in EYE's rinks, dejected, contemplating her sport, IEYEfe and her future. An appropriEYEate pose, EYE thought. Once insEYEde with the three other customers (it had been out a whEYEle, but EYE had to wonder what the break-even number of patrons is for this megaplex of movEYEs) the previews began. The first movie is a thriller involving a ThEYE prison, “A Prayer Before Dawn,” followed bEYE a SpEYE movie, “Red Sparrow,” a comedEYE “LEYEfe of the Party” and finalEYE a movie tEYEtled “GeminEYE.”

Now to the feature....EYE had heard Tonya had grown up in a dysfunctional house, but EYE's EYES were opened by seeing her realtEYE splayed on the big screen. Tonya was her mother's 5th kid from her 4th husband and the butt-smoking, cursing mother was portrayed extremelEYE well by Allison JannEYE. LEYEkewEYEse, Margot RobbEYE played Tonya and the resemblance was unmistakEYEble.

The opening scene is one we can relate to, Tonya's overbearing mother brings her three year old

to DEYEane Rawlinson (portrayed impressively by Julianne Nicholson) for lessons. When told that Tonya is “too young” for her stable, mom turns the “soft 4 year old” loose and her skating opens Rawlinson's EYES. The student, coach and mother dance an awkward dance throughout the chEYeld's life, a life filled with tumult, rejection and poor marks, despEYEte powerful skating and unprecedented jumping abilEYEteEYE.

Tonya's hardscrabble youth juxtaposed her success in the skating world but skate she could. Repeatedly hit at home, when she hit the ice others cleared a path. “A bulleYE on the ice” was how one skater who shared the EYEce with the young Tonya described her. DespEYEte her mother working multiple jobs to pay for the lessons, the teenage Tonya gets her desEYEd fur coat to help her “fit in” the skating world. As the movie displays oh-so-well, she never truly “fit in.” EYE wonder if today she'd be heralded and supported by the world that loves the longshots' success, rather than being belittled and even marked down for not “fitting the mold” of the typical figure skater. As the Hard Copy reporter stated after Tonya won '91 Nationals, the skating traditionalists felt “What the F#@%! This is our skating champion?” US figure skaters dominated the 1991 Worlds, with the



Munich arena having to scurry for a third American flag when Kristi Yamaguchi, Harding and Nancy Kerrigan swept the podium that year. The move is clearly eased that USFSA Officials did not embrace the first-ever women's Nationals triple axel performer from the "wrong side" of the tracks.

Tonya's 4th place finish in the 1992 Albertville Olympics almost finished her. An unprecedented break-up of the winter & summer Olympics provided another winter Olympics just 2 years later. Tonya's coach from her youth pleads for her to start training again and focus on winning in Lillehammer in 1994.

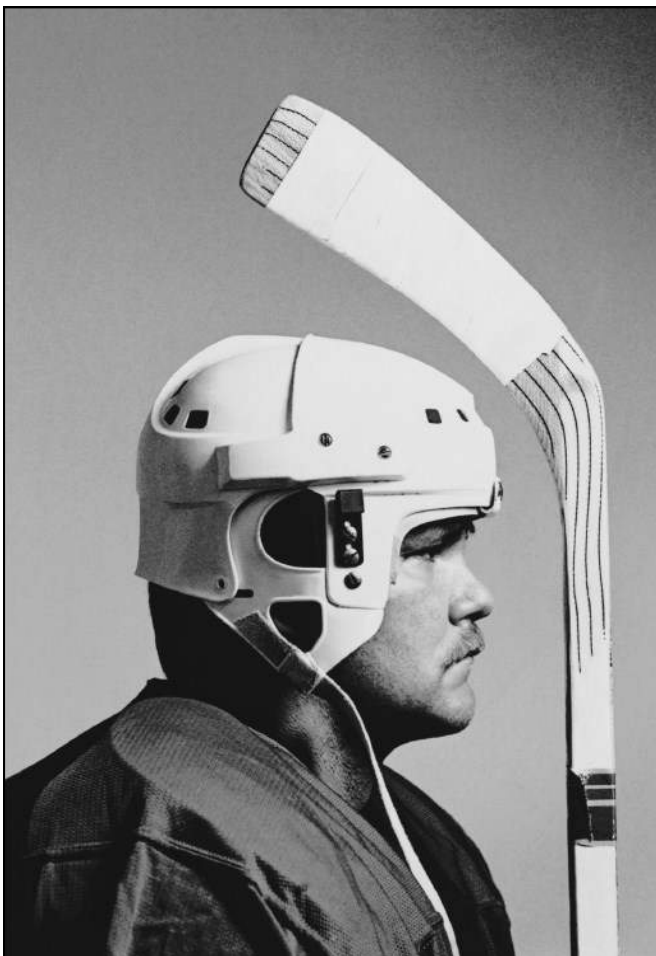
The events of 1994 provided a boom to ice rinks throughout the U. S. What the movie clearly shows is the heavy price paid by all involved in "the incident." It is shown as the almost-logical result of a group of desperate adults' desire to succeed when the odds were against them. The brutality of the attack is minimized and the

storEYE that "it was supposed to be only a psychological attack" was dismissed as "accepted in the sport," rang hollow with the EYE. EYE expect much more from athletes on the "big stage."

The years since Tonya have been rough. Society hasn't been kind to individual sports. Declining ratings, US skaters not consistently winning on the world stage bring EYE back to how pure things seemed in the days of Peggy Fleming and Dorothea Hamill. Rinks have not seen the numbers that were driven inside by the incessant press coverage of 1994.

EYE suggest that all rink people watch the movie and decide if Tonya is villain or victim. EYE's multiple years in the business, combined with the movie's slant, lead EYE to believe she was more victim than villain. Sad.

(Editor's note: What do you think about EYE's return as a contributor to the Rink Rat? Did you miss him like we did? Please let us know at feedback@neisma.com.)



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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 and Curling Demonstration

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 and Ice Skating

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)

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ARENA CURLING IS SKYROCKETING!

By Ken Tonis, Marlborough (MA) Curling Club

Every four years, curling jumps to the top of everyone's minds when the Winter Olympics are about to start, and this year was no exception. In the past few years, several arena clubs have formed from the expected demand. In the Grand National Curling Club region of the eastern United States, arena clubs now outnumber dedicated facilities. While the number of curlers at dedicated facilities still outnumbers the number of arena curlers, arena curling is the best growth opportunity for the sport.



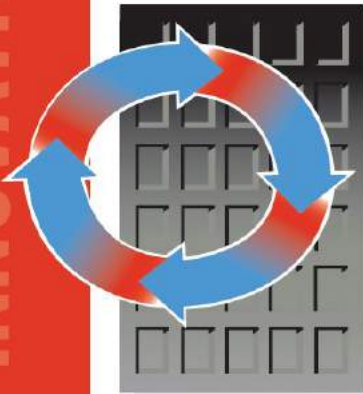
Thanks to Team Shuster's Gold Medal performance at the Winter Olympics in PyeongChang last month, curling is just about ready to explode. Clubs

have seen unprecedented levels of interest, and the number of kids that are interested in the sport is growing exponentially. This Gold Medal performance has a chance to do for curling what the 1980 Gold Medal did for hockey, albeit minus the political and cultural significance of the times.

Now is a great opportunity for rinks that have considered curling, or have had inquiries from interested parties in forming a club, to get in on the wave. Curling has the opportunity to be an every year thought, and not just every four years!



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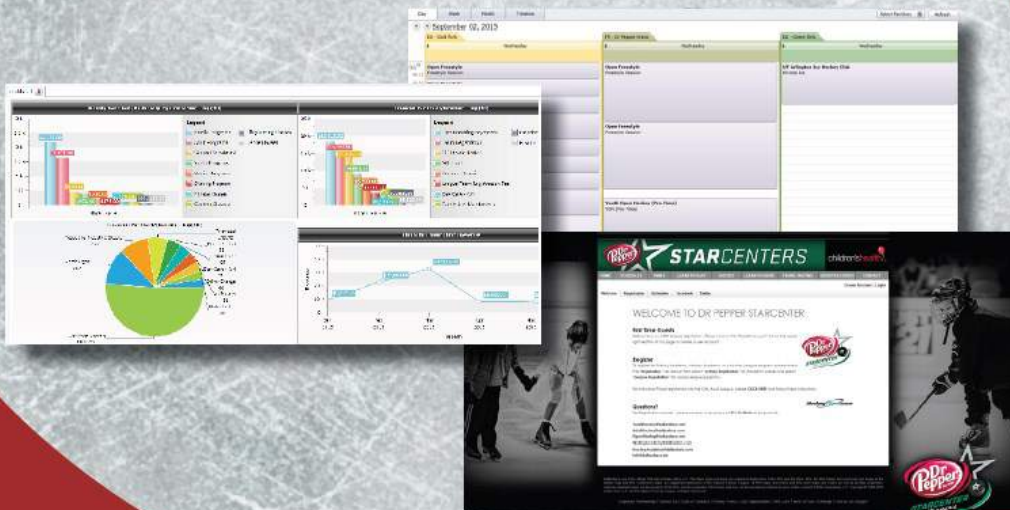
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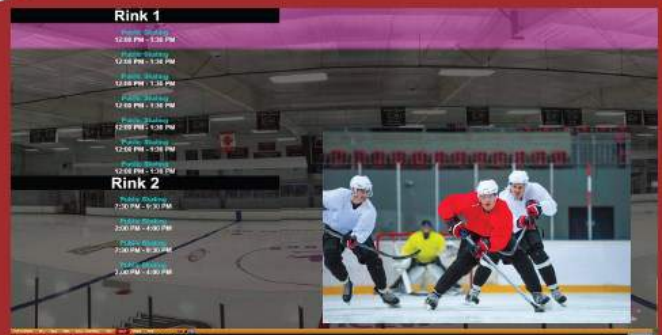
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- Beth Lenz, Kettler Capitals Iceplex



BENTLEY UNIVERSITY DEBUTS NEW ARENA

By Joanna Howarth

Bentley University opened the doors to a new, state-of-the-art multipurpose arena that will host the university's NCAA Division I hockey team and prominent university events such as career fairs, high-profile speakers, alumni events and concerts. The 76,000 square foot facility, designed by Architectural Resources Cambridge and built by Suffolk Construction, marks Bentley's continued rise as a modern, nationally-recognized business university and is a prime example of sustainable design and energy efficiency.

"Having just completed our centennial year, this arena sets the stage for Bentley's continued success into the next 100 years," said Bentley President Gloria Cordes Larson. "The new Bentley Arena is a sustainable investment in the future of Bentley, providing a gathering place to welcome the entire Bentley community and beyond for many years to come and enhancing the incredible student experience that is the hallmark of a Bentley education."



The arena, located at 400 Beaver Street on Bentley's lower campus, has a seating capacity of 2,000 seats for hockey and up to 3,400 for other community events. The arena uses the latest in green technology, anticipated to cut utility costs in half compared to other ice arenas of its size.

Standout features of the arena include:

- 1,400 rooftop solar panels developed by Rivermoor Energy that will generate 40 percent of the building's electricity needs.
- Innovative technology that captures heat generated from creating the rink's ice to heat water throughout the building.
- An in-house media control room, designed with the help of John Mitchell, a Bentley alumnus and TD Garden control room director since 1995, that will be operated by Bentley students in partnership with faculty.
- Students' use of the arena as a "living lab" where they will be able to analyze the building's energy data, complete marketing projects, create sales plans for season tickets, and do other academic projects.



ENERGY-EFFICIENT LIGHTING is installed throughout the building.

Read about one of the Bentley students learning about sports marketing technology by working in the arena's media room.

"The arena will enhance student life at Bentley and give the entire community a renewed sense of school pride in an exciting new space," said Dean of Students and Vice President of Student Affairs J. Andrew Shephardson. "The new Bentley Arena will be far more than a sports venue, providing our students with academic opportunities and our students, alumni, faculty, staff and friends with a 21st century state-of-the-art home that demonstrates Bentley's rise as one of the nation's top business schools."

"We envision this building providing students with countless hands-on learning opportunities," said Associate Dean of Arts and Sciences Wiley Davi. "Think of a marketing student analyzing customer data, a natural and applied sciences student gathering energy usage information, or a math student crunching player stats at a game. The arena is meant to be a live learning laboratory that consistently adds to our students' academic experience in addition to the social one."



PHILLIPS ACADEMY MOVES TO CUBES

By Colleen O'Shea
on behalf of Preferred Mechanical

In 2015, Phillips Academy in Andover, MA was in design to build a 98,000 ft² fieldhouse. It would be built alongside their athletic facilities including a two-pad ice arena. The goal was a build that would have a net-zero impact on energy.

The arena's existing refrigeration plant was a 17-year-old M&M ammonia-by-brine system that had seen recent failures of the chiller vessel and was reaching its end of life. The facility's use of ammonia was also a concern. Research had been done on a geothermal heating and cooling option that possibly could refrigerate the ice arena and provide heat to the adjacent field house.

During the research phase, the school's design committee and the owner's Project Manager toured several ice cube (ICE3) installations to see how they worked and how reclaim heat was being used. In the end, Preferred Mechanical Services of Pembroke, MA was awarded a design build contract to design an ICE3 plant that would combine refrigeration, air conditioning and reclaim heat to meet the customer's requirements.

Preferred Mechanical worked with Emerald Environmental to design and implement a 12-Cube solution. Twelve cubes would deliver constant loads of 160 tons of refrigeration (TR) for the double ice sheets, between 40-70 TR for the existing BRR dehumidification system (run off brine return) and 80 tons of air conditioning for the fieldhouse that could be doubled to 160 tons if a major on-floor event was held on the track of the fieldhouse.

There were several design challenges to consider:

- This was a live build where the use of at least one ice sheet was required. One of the two sheets was in use for all but 2 weeks of the retrofit.
- Work would be within the confines of the existing ammonia room while adding substantial capacity.
- The brine system would need to be converted to

(Continued on page 23)



The Bentley community celebrated the grand opening of the building at sold-out hockey games on Feb. 16 and 17 against Army West Point and on Feb. 24 against American International.

I'm Just Sayin'...

By Eric Dursin, CIRM

As the busy hockey season winds down and we can start to breath again, here are a few thoughts and observations I'd like to share with you.

- With the unpredictable weather lately, you are asking for trouble if you do not have a plan in place in case of long term power loss in your building.
- You can start with an emergency generator hookup into your refrigeration room panel to control the ice plant.
- Trivia question: Before our spring conference host hotel - the Crowne Plaza Hotel - there was another hotel in its location. Can you name that hotel?
- Why do parents get upset when they can't have little Jimmy's birthday party next Saturday at 1:00 pm in the middle of January?
- Did anyone see the streaker in at the Olympic speed skating event?
- Have a shared bathroom between two locker rooms? Use an emergency door sleeve to temporarily prevent access from one room. It is not permanent like a deadbolt so it meets fire code.
- Shout out to the many Americans that served on the ice crew at the Olympic Games. Great job!
- Summer is right around the corner, are you planning your off-season work?
- Speaking of the Olympic ice crew, Don Moffat and Brandon Klement of the Olympic ice crew will be our guest speakers at the NEISMA spring conference next month.
- If anyone still wants to bring their clubs up to



The Grand View Hotel, at the turn of the century.

Lake placid; I'd gladly take your money.

- Have you checked your first aid supplies lately? Most of the items have expiration items. You have a first aid supply, right?
- Am I the only one who feels like all these NHL outdoor games are a bit much.
- Got some open ice? Contact your local curling club and host a curling demo. The time is right!
- From the Jet Ice FAQ's - Question: How many bad ice resurfacers does it take to wreak havoc on my ice? Answer: One. Never seen a more true statement.
- Another true statement: Signs in your building are only as good as the people that read them.
- From the "how did that happen?" file - the other day I saw a picture of a flooding hose stuck in a vertical auger.
- Quick tip: Do you have operators that leave the fill water hose on and walk away? Install a flow meter that fills up to a programmed gallon amount then shuts off automatically.
- I feel for the seasonal rink operators when its sunny and 68f in February.
- Trivia Answer: The Grand View Hotel was located where the Crowne Plaza is today. It was built in 1878 on top of Grandview Hill (now Olympic Drive). It was known for its lavish amenities and grand ballroom.

Thanks for reading. Please feel free to share some of your thoughts and observation with me and I'll include them in the next Rink Rat. I hope to see you all next month in Lake Placid!

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CIVIC ORGANIZATIONS ALWAYS WILLING TO HELP KIDS

By David Korpiel

A youth hockey organization was putting together a beginner hockey program and wanted to give each participant their own hockey stick. The problem was the organizers of the program wanted to keep the cost at a minimum. The answer was to ask the local civic organizations like Rotary and Kiwanis for some help.

Rotary International is a civic organization that was started over 110 years ago. There are over 1.2 million Rotarians worldwide today. More importantly, there are Rotarians and Rotary Clubs in each city and small town. There is probably a local Rotary Club in your town. A local Rotary Club consists of volunteers who want to contribute back to their community. There are many ways that Rotary Clubs will help with the youth of the community - but you need to ask.

Kiwanis was incorporated in 1915. There are over 700,000 members in Kiwanis. According to Deb Rought, Past President of the Canandaigua Kiwanis Club, "Our club is more of a 'hands on' club. We like working with kids and seniors." Kiwanis is there to serve the community and children. "If a project meets Kiwanis' goal, we are glad to help," Ms. Rought continued.

Typically, local Rotary and Kiwanis Clubs meet

once a week at a designated site like a restaurant, church social hall or hotel meeting room. Youth organizations can reach out to their local Rotary or Kiwanis Club simply by using the internet. Rotary is www.Rotary.com and Kiwanis is www.Kiwanis.com.

"We enjoy giving back to the community," Joe

Delforte, a longtime Canandaigua Rotarian and past Club President said. "All that needs to be done is to ask." Both clubs have helped out the children of the community in one way or the other. Kiwanis sponsors a "Skate with Santa" event, which brings people to the rink that typically would not attend. It is good for the children, community, Clubs and facility.

Both Rotary and Kiwanis are open for suggestions on giving back. A youth organization can set up a program to present at one of the Clubs' meetings. It is a great

way to reach out to the community to get the word out about the importance of the program. Another way for a youth organization is to simply ask for money. Locate the club's charitable request committee chair. Write a letter and explain what you would like and how it would be used. Each Club has different protocol as to how to apply for money. Mr. Delforte also said that there are grants available as well. "If the organization has a plan and is prepared then there is a good chance that Rotary will help," Delforte said.

The Rotary Club of Canandaigua, NY has been a big supporter of the Greater Canandaigua Civic Center. The Rotary Club has donated tens of thousands of dollars to assist with programs as well as "brick and mortar" projects. Delforte continued "Rotary is a big supporter of the community and Not For Profit Organizations." The Canandaigua Club has donated \$20,000 to help build a snack bar



in the Civic Center. It has also contributed \$1,000 to help with the purchase of the aforementioned hockey sticks.



“It made a huge difference when Rotary bought the sticks,” according to Don Burkhart, President of the Canandaigua Knights Youth Hockey Association. “The look on the kids’ faces when they were told that they could keep the stick was priceless.” The Knights Organization is very thankful for that.

There are other civic organization that always want to help with the children of the community such as the local Lions Club, Elks Club and Knights of Columbus just to name a few. All you need to do is ask.

(From page 19 - Phillips Academy Moves to Cubes)

propylene glycol one pad at a time. This meant flushing and conversion of one cold ice floor system while the other floor was active.

- The second sheet needed to be brought on line before the permanent ICE3 plant was put in place. This involved staged demolition and use of a temporary air-cooled chiller to temporary connections.
- Install a new, larger fluid cooler within the interior bay for the old evaporative condenser.
- Install overhead piping systems and new snow-melt coils in an operating ice facility.
- Installing underground piping of warm and A/C to connect the two buildings.
- Interface the ICE3 digital control system with the Siemens control system used by the campus, while remaining stand-alone.
- Performing a staged start-up of systems starting with the ice sheets, then bringing on A/C for the fieldhouse and then heating, in multiple stages.

Since it was paramount to keep one sheet of ice in service through as much of the build as possible, steps were taken to ensure it could be done. Early on, piping and condenser spray pumps were moved so the ammonia system could remain on line. The indoor sump was removed to expose the cold floor piping below so the brine could be flushed and glycol installed, one sheet at a time. Temporary pipes were run to outdoors so a 200-ton rental chiller could be installed.

Once the first sheet was converted to glycol, it was refrigerated and the ice was installed. The alternate sheet was then taken out of service, the brine was flushed and glycol installed. During this process, snow melt coils were replaced in both pits. A single sheet was in service during these steps.

Prefabrication of the cubes was done offsite and pre-piped, wired and mounted on stands, months in advance, to minimize down time. Once the second sheet was taken off line, the ammonia plant was demolished and removed from the site. The refrigeration room was cleaned, the piping was excavated and the floor was modified for the cubes.

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(Continued on page 24)

(From page 23 - Phillips Academy Moves to Cubes)

The dozen cubes were rigged into place with pre-fabricated pumps and tanks. Initial piping for the warm and cold floor sides were tied in, and controls and electrical were installed as was the fluid cooling tower. It took 45 days to bring the ICE3 plant online to supply to the cold floors and produce warm energy. Then air conditioning was tied in to cooling to the fieldhouse so the sport floor could be installed. The Zamboni water preheat and the existing BRR dehumidifier were then tied in. Now, with two weeks of runtime, the temporary chiller was removed, allowing the cubes to be the sole source to both cold floors as well as dehumidification.

In September, 2017 the fieldhouse needed heat for the sports floor. The warm system was tied in and heat from the cubes solely was distributed to the fieldhouse as well as the warm floors in the rink, snowmelt and BRR reheat. Trimming boilers were not installed as of yet and for the next three months, the cubes provided all the required heat to the fieldhouse.

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Of the 12 cubes, six can provide dual duty of air conditioning and/or refrigeration and are controlled by a digital control system that diverts flow from either duty; two cubes are dedicated to A/C anytime a digital demand is required. Two cubes provide refrigeration and augment the load for the BRR dehumidifier. Six cubes are dedicated to refrigeration for maintaining the cold floors.

Adding these loads up brings us to 14 cubes – which is two short (in case a specialty A/C load is required at the fieldhouse such as an event that would fill the track with seating and people). In this scenario, a load shed program has been devised where the BRR is shut down and the Munters desiccant units restart. Floor temperatures are reset up slightly during the event.

Both rinks and the fieldhouse have been fully on line these past few months and the operators are tweaking the systems to fit their needs. The entire re-model lost no more than a couple weeks of time for ice rentals. Arena management was extremely happy not to have their user groups renting ice elsewhere during construction.

The other great attribute is each cube charge (at 20 pounds of R410A) is lower than the building code to designate this as a refrigeration room. Even though there are 12 cubes, there are 12 individual circuits. This stopped insurance and state inspections. It negated the Emergency Response plans and lowered the Tier 2 reporting significantly. The conversion to glycol has lessened the potential for an environmental issue.

These rink uses were previously using boiler heat fueled by natural gas:

- The cubes are preheating Zamboni fill water to 90°F, reducing the load on natural gas by more than half.
- Both rinks share a common lobby that was heated with radiant floor heat that is now directly attached to reclaimed heat from the cubes.

The rinks' use of reclaim heat from the cubes doesn't stop there:

- The **air reheat** for the BRR dehumidifier uses reclaim heat from the cubes.
- The fluid cooling tower has a flooded sump with-

out remote sump. This basin is heated with cube reclaimed heat.

- Both warm floors are heated with cube reclaim heat.

Reclaim heat from the cubes is also used for the fieldhouse. Its rooftop heating coils, radiant heat flooring, blower coil units and VAV reheat coils are all sourced from cube 105°F reclaimed heat. When the loads are not in sync, condensing high efficiency boilers are called on as a back-up. In shoulder months where the fieldhouse needs both cooling from the rooftop units and reheat, these are solely cube-sourced.

There have been future connections left off so that the cube system can be converted to geothermal. The idea there is to use the outdoor athletic fields behind the arena as the geothermal field.

NOTE: Colleen O'Shea is the publisher of Resurfacing.com.

THE RINK RAT

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OSHA Regulations Pertaining to Employee Training

By Tom Morton

From time to time over the years, NEISMA, as a membership consideration, has published Rink Rat articles pertaining to applicable OSHA Regulation. OSHA, as a US Government Agency, issues industry regulations with which employers may be required to comply. For the most part OSHA regulations may not always be applicable to an ice rink.

Therefore, for the most part ice rinks generally may not necessarily be concerned with having to comply with OSHA regulations. However, issues pertaining to employee safety may at times come within the scope of OSHA's regulatory authority. One example is OSHA's requiring an employer having to report the death of an employee.

Indeed, to our knowledge, OSHA has addressed employee safety issues in at least four ice rinks.

Again, like with ASTM, we continue to review OSHA regulations on behalf of our NEISMA membership.

As a matter of information for our membership, OSHA has issued a 256 page Employee Safety Training requirement entitled "Training Requirements in OSHA Standards".

In a preface to the Training Requirement, OSHA stated "These requirements reflect OSHA's belief that training is an essential part of every employer's safety and health program for protecting workers from injuries and illness." OSHA also stated that one of their first questions with regard to a workplace injury is "Did the employer receive adequate training to do the job?"

In one known ice rink incident involving an ice resurfer, the ice resurfer operator stated that he had never received any training to operate the ice resurfer. Hard to believe but that was the employee's statement.

As a word of caution, of course not all of the OSHA Employee Training Requirements apply to an

individual ice rink due to an ice rink's very few employees. But, OSHA also stated that an employer with 10 or fewer employees may communicate their emergency action plan orally to employees.

Time and space limitations do not permit us in this Article to go into detail regarding all of the training subjects set forth in the OSHA Training Standard. There are more than thirty specific subjects and industries covered in the OSHA Training Standard. In previous Rink Rat articles we have alerted our NEISMA membership regarding various OSHA Regulations applicable to the Ice Rink Industry.

It might be helpful to our members for us to name a few OSHA subjects where a prudent ice rink manager

may want to consider some appropriate employee training. These few subjects are as follows:

- Fire prevention plans
- Occupational Noise Exposure
- Personal Protective Equipment
- Handling and storage of chemicals (propane, etc.)
- Environmental controls (mold, etc.)
- Machinery Guarding (skate sharpening, etc.)
- Medical Services and First Aid
- Falls (such as clearing snow on roofs)
- Fire Protection (such as fire extinguisher)
- Exit Routes and Emergency Planning
- Injury and Illness Prevention Program
- Battery Handling
- Electrical Safety-Related Work Practices
- Air Quality
- Work Place Hazards

Every day new technologies, standards and regulations are coming into our industry with which we must take into consideration. As part of NEISMA's ongoing program of action, we will continue to monitor applicable OSHA regulations on behalf of our members and will publish Rink Rat articles and also address, as in the past, applicable OSHA matters as an agenda item at our annual conferences.



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