

NEISMA

September 2017

rinkrat

Begin Planning Now for Lake Placid!

By Ed Peduto

INSIDE THIS ISSUE

In August, our Conference Committee took a trip to Lake Placid, NY to plan next spring's Conference and Trade Show. For most of them, it was their first visit.

"It is SOOOO incredible! There's so much to see I didn't know which way to look!" said Chairperson Michelle Stenberg when first laying eyes on the Village of Lake Placid! We hope that many of you will have the same reaction when you arrive at the Olympic Center for the NEISMA Conference & Trade Show next spring.

"It's SOOO incredible! There's so much to see I didn't know which way to look!"

- Michelle Stenberg, NEISMA Treasurer



In an effort to recreate the excitement of the 1980 Miracle on Ice, we will revisit the 1980 team's journey to the gold medal game.

March 1979 – Three tryouts are held in Bloomington, MN, Oak Park, MI and Danvers, MA. Those advancing were invited to the National Sports Festival in Colorado Springs, CO.

May 31, 1979 – St Paul, Minnesota native Herb Brooks is named coach of the team. Brooks won a MN State Championship while playing high school hockey, played for the U of Minnesota Golden Gophers from 1955 to 1959 and played on the until Cambridge, Squaw Valley plussed, Brooks "you must have won." Brooks record 8 National between 1960 the 1964 (Innsbruck) & 1968 (Grenoble) Games. Brooks began coaching in 1970 and held the Gopher Head Coaching job from 1972-1979, leading them to three NCAA titles (74, 76, 79) before accepting the Olympic Team coaching job.



1960 Olympic team MA native Jack Riley cut him one week before the games began. Non-later told Riley been right - you would play on a al & Olympic teams and 1970 including

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2018 Spring Conference and Trade Show

Sunday, April 22 through
Wednesday, April 25, 2018

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President's Message

by Ben Ruggles, CIRM, PMP



Fall is upon us and most of us are into full swing. The NEISMA Board of Directors has been busy this summer making plans for our Fall Conferences (see pages 4 - 7), which we will once again offer throughout our region at four (4) different locations. But this year we decided to try something new: we're offering them to rink members FOR FREE! So no more excuses! Please let us know which meeting you'd like to attend so we can be ready for food, seating, handouts, etc. Hope to see you there!

A "method to our madness" in offering these free meetings is to get more people involved in NEISMA. By reaching out to Princeton, NJ, Syracuse, NY, Burlington, VT and even Providence, RI, we've made it much easier for folks to attend. Our hopes, too, are that people in these areas will get excited about our upcoming Spring Conference and Trade Show in Lake Placid, NY on April 22 - 25, 2018 and decide to join us. It will be a memorable event and certainly worth your time, effort and money to attend.

After taking the June issue of the *Rink Rat* off to relocate

to his new job as Associate Director of the Herb Brooks National Hockey Center at St. Cloud State University in Minnesota, Cory Portner has come back strong with Part 4 of his series of articles entitled "Making Ice in PyeongChang" (page 8). With the 2018 Winter Olympics just around the corner, Cory shares with us his preparation of the speed skating and figure skating ice surfaces, which share the same rink. Cory includes two of his cohorts, Rick Ragan and Art Sutherland, as they work together to prepare the best ice possible.

We decided to add a little "culture" to this issue of the *Rink Rat* by featuring two museum pieces - one of the Fenimore Art Museum (Cooperstown, NY) exhibit of Olympic Gold Medalist Dick Button's collection of figure skating artifacts (page 14), and the other of the Lake Placid Olympic Museum's current exhibits and displays (page 23). We hope you enjoy these two articles - please let us know what you think.

Speaking of the *Rink Rat*, the Board has discussed changing it's name! Some of us feel the association has

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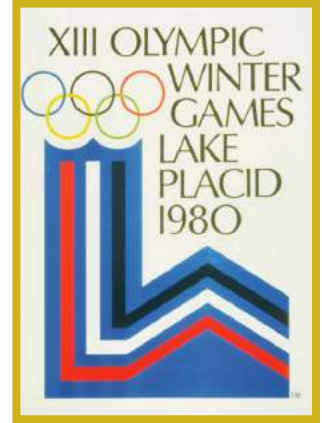
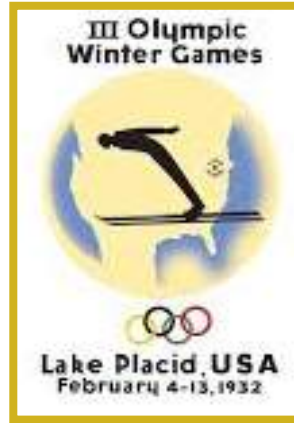
evolved into a more professional organization, getting involved in not only local and regional issues but national and international issues, as well. What do you think? On page 13, we offer options but want to hear from you.

Board member Tom Walsh offers his suggestions as to how to clean tempered glass (page 19), Board Treasurer Michelle Stenberg encourages your attendance at the Spring Conference in Lake Placid next April (page 9) and long-time board member, Ed Peduto, not only encourages you to join us in Lake Placid (page 1) and shares his installation of "curvyboards" at his Reading, MA rink (page 24) but also announces the winner and solution to last issue's Puzzler challenge (page 18) - you don't want to miss that one!!!

The coming year is an important one for the rink industry. A Winter Olympic year offers us all the opportunity to grow the business of ice sports. From hockey to figure skating to curling to speed skating - ice sports will be front and center for all to enjoy and, hopefully, fall in love with. Let's all hope that world politics don't interfere with this coming year's Games.

This is an important year for NEISMA, as well, as we're taking a risk in hosting our main event - our annual Spring Conference and Trade Show - in a "far away land" of Lake Placid, NY. But being an Olympic year, we felt

that this was the year to try it. Over the coming months, we'll be announcing various speakers, activities and attractions that we'll be including. If you have ideas or suggestions, we're all ears. We want this to be the most memorable Conference that NEISMA has ever hosted.



In closing, I want to thank everyone who has renewed their membership to NEISMA already this fall. As most of you know, our membership year begins September 1 and ends August 31, so having everyone on board early is very helpful to the health of our organization.

Please join us at one of the Fall Conferences and please make plans to join us in Lake Placid. Thanks!



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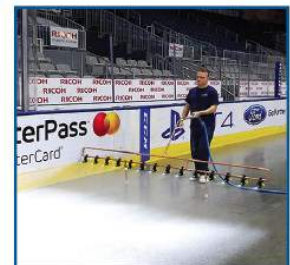
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2017 Fall Conferences



SYRACUSE UNIVERSITY

Tennys Ice Skating Pavilion, Syracuse, NY

Wednesday, October 18th

Conference Schedule

- 8:00 am - Registration; coffee and pastries
- 9:00 am - Welcome; Lake Placid presentation
- 9:30 am - R-22 Conversions (Chris Geatrakas, Davis Mechanical)
- 10:30 am - Improving Efficiency While Controlling Humidity (Art Dormamajiam, Munters)
- 11:30 am - Building Tour (Kelly Johnson, Associate Director)
- 12:00 pm - Lunch
- 1:00 pm - Painted and Drop In Logos (George Arnaoutis, Jet Ice)
- 3:00 pm - Depart



PROVIDENCE COLLEGE

Schneider Arena, Providence, RI

Tuesday, October 24th

Conference Schedule

- 8:00 am - Registration; coffee and pastries
- 9:00 am - Welcome; Lake Placid presentation
- 9:30 am - R-22 Conversions (Ronald Vogl & Mark Taylor, Honeywell; Alan Page, RECCO)
- 10:30 am - Fundamentals of Inhibited Glycol (Alfonso Sira, Houghton Chemical Corp.)
- 11:30 am - Building Tour (Eric Dursin, Arena Manager)
- 12:00 pm - Lunch
- 1:00 pm - Bob Bellemore, Speaker (*see bio, below)
- 3:00 pm - Depart



One of the top goaltenders to ever play at Providence College, the 2011-12 season marked **Bob Bellemore's** 19th season as an assistant coach with the women's hockey team. In addition to working with the goaltenders, he assisted with scouting and other various duties. He is also involved with the USA hockey elite training camps that take place in Lake Placid, N.Y. Coach Bellemore helps lead the goaltending segment of the camp.

In 1972, Bellemore joined head coach Lou Lamoriello's staff as a full-time assistant - a position he held until 1986. In 1986-87, Bellemore held the title of Arena Director and was in charge of the day-to-day operations of Schneider Arena. Bellemore left PC in 1987 to serve as the goaltender coach for the New Jersey Devils. In 1991, he left the Devils and returned to PC to earn his master's degree in special education and has since been employed as a special education instructor and guidance counselor at South Kingstown (RI) High School.

2017 Fall Conferences



PRINCETON UNIVERSITY

Hobey Baker Memorial Rink, Princeton, NJ

Thursday, October 26th

Conference Schedule

- 8:00 am - Registration; coffee and pastries
- 9:00 am - Welcome; Lake Placid presentation
- 9:30 am - Basic Refrigeration Cycle (John Krupinski, BK Mechanical)
- 10:30 am - Ice Arena Dehumidification (Mark Bradley, CDI)
- 11:30 am - Building Tour (Seth Sherman, Rink Manager)
- 12:00 pm - Lunch
- 1:00 pm - Painted and Drop In Logos (George Arnaoutis, Jet Ice)
- 3:00 pm - Depart



UNIVERSITY OF VERMONT

Gutterson Field House, Burlington, VT

Wednesday, November 1st

Conference Schedule

- 8:00 am - Registration; coffee and pastries
- 9:00 am - Welcome; Lake Placid presentation
- 9:30 am - Efficiency Opportunities in Ice Rinks (Sheryl Graves, Efficiency Vermont)
- 10:30 am - Ice Arena Dehumidification (Mark Bradley, CDI)
- 11:30 am - Building Tour (Joel Fitzgerald, Athletic Facility Manager)
- 12:00 pm - Lunch
- 1:00 pm - Having a Quality Ice Sheet (Dave Loverock, Jet Ice)
- 3:00 pm - Depart



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SIRO is a 5-hour certification course offered by the US Ice Rink Association and will be held at our Providence College and Princeton University conferences. Instead of attending the sessions listed on these two pages, attendees will go to a separate classroom for this class. Pre-registration is required. The cost is only \$75 per person.



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Making Ice in PyeongChang - Part 4

By Cory Portner, CIRM

On the drive from the airport, Rick Ragan and I discussed the task at hand. Rick joined the Figure Skating and Short Track Speed Skating staff as a Deputy Ice Technician and I was excited to have him along. He operates an ice rink in Delano, Minnesota. He is exceptionally detailed and he, too, was excited for his first visit to Korea.

The plan was simple. Install the ice and simulate two full days of practice and competitions based on the Olympic schedule.

After a good night sleep, Rick and I began our journey to the rink. Upon arrival we spent about half of the day getting our instruments set up and making sure we had equipment in place to begin the install. The facility had been pre-cooled to 50°F and the floor surface temperature was at 16°F. The humidity was slightly above ideal but given the colder ambient temperature we were still within an acceptable

35°F dew point. I gave Rick a “two thumbs up” nod and we began our day by running the rope around the perimeter of the rink.

No dasher boards are used on this field of play (FoP) so to hold the ice on the floating slab we use the service of a polypropylene rope. The targeted ice thickness is 4cm to 4.5cm. Our rope diameter is 3.8cm to allow us to get ice over the top once we approach final depths. After two years of working with a surface that utilizes a rope as the ice

dam I have learned a couple of things:

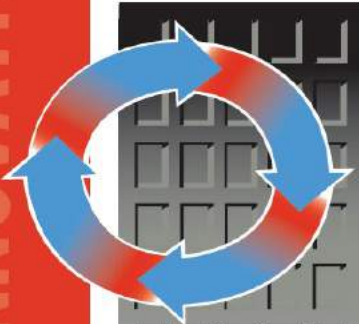
- 1) don't use any other material than polypropylene.
- 2) install the rope on the floating slab and allow one inch on the backside for water to freeze behind the rope.

Looking Forward
to the
2018 Winter Olympics



(Continued on page 10)

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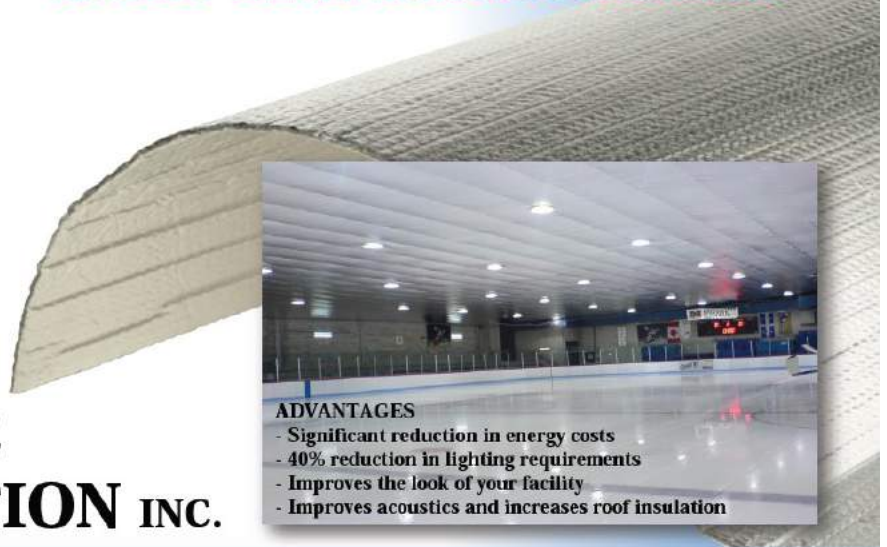


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GO FOR THE GOLD! COME WITH US TO LAKE PLACID

by Michelle Stenberg

The NEISMA Conference Committee spent a few days in Lake Placid back in August to meet with area hotels and the staff at the Olympic Regional Development Authority to go over venues and plans for next spring's Conference and Trade Show. We are planning US Ice Rink Association and iAIM courses as we have in the past as well as ice hockey games on the 1980 Arena, some great speakers, tours of the Olympic Village and other activities that will make your visit memorable!

The area is RICH with Olympic history, beginning in 1932 and, of course, the "MIRACLE ON ICE" in 1980. Both arenas are still standing and being used regularly for hockey games, camps, figure skating, curling and much more. Most all of the 1980 venues - ski jumps, bobsled run, downhill skiing, etc. - are still being used as training facilities and the Olympic oval for speed skating and the Opening Ceremonies still stands, right in front of Lake Placid High School.

So keep saving those pennies in the piggy banks we gave out in Falmouth! THIS CONFERENCE IS ONE YOU WILL NOT WANT TO MISS! You will be telling your friends, family and coworkers about it long after you have returned home from the conference.

From front cover "Begin Planning Now for Lake Placid"

June 14, 1979 - "Tryouts" begin, the team is picked and practices begin on June 25th.

September 3, 1979 - Exhibition Games begin - the team would compile a 42-16-3 record against foreign, professional and college teams leading up to the games.

What happens next? Find out more in the next Rink Rat. **AND COME SEE THE 1980 RINK IN APRIL!!!!**



SPRING CONFERENCE AND TRADE SHOW

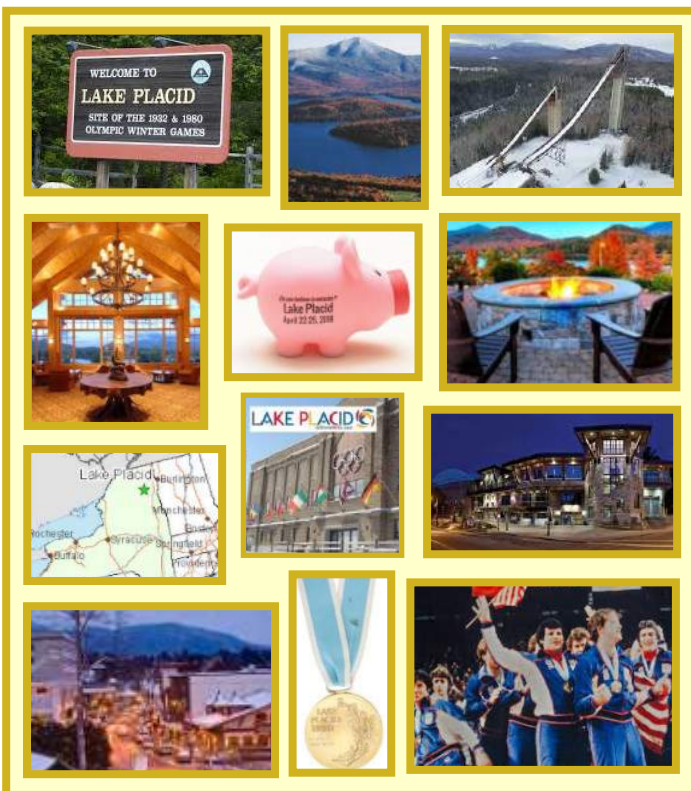
Lake Placid, NY

Sunday, April 22 - Wednesday, April 25, 2018

Please join us!



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(From page 8 - Making Ice in PyeongChang - Part 4)

The ice will build over the rope faster and the rope will be very secure once the ice is at final depth. You can speed up the process on the backside by packing slush around the perimeter as well. We did this about halfway through the ice install. A rolling 55ga trashcan, snowblower gloves and kneepads move this procedure along nicely.



With the rope installed and sealed in place, it was time to unveil our newest piece of equipment. After much anticipation, the Jet Ice Motrec paint applicator had arrived! Needless to say, I was excited to

give this a go.

First rule of order was to make sure we had hose and water source to fill the tank. Thankfully the hose bibs hadn't moved but we were missing our hoses. A short walk to the storage room and moments later I returned with a few options. Rick went to work on hooking up the hose to the hot and cold water sources. No banjo fittings so metal bands and some ingenuity to rig the fittings. I began to assemble the boom for the Motrec and check the machine (tire pressure, battery life, propane,

pump fittings etc.). All items check out and once the hoses were installed we began filling the 200-gallon water tank. We chatted for a minute until a loud noise came from the water source. Upon inspection, our 2" water line had blown the fitting off the hose and there was 140°F water spewing out of the bib like a fire hydrant. Water was shooting straight across the room and bouncing off the sidewall of the Zamboni dump tank. The steam from the water set the overhead smoke detectors off. Lights and audio alarms begin. The overhead door to the area begins to close. Directly beneath that door lies our new chariot. In the midst of the chaos, Rick began to de-robe to remedy the "leak". I scanned the area and found a 4'x8' piece of plywood to use as a shield. This seemed more sensible than a half-naked human with a mop handle. At 10 am, two humans are completely soaked, the facility is in fire evacuation mode and our new Jet Ice cart was almost guillotined - lovely. So far, arena one, humans zero. Off to the hotel to change, grab a shot of coffee and prepare for round two.

With double the fittings and some more elbow grease Rick was confident the hose would hold. We managed to get the tank filled and took the cart onto the ice for the first bond coat.

(Continued on page 12)



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(From page 10 - Making Ice in PyeongChang - Part 4)

It's noon and clearly we are off schedule a bit. But nonetheless, I'm smiling as we are driving in circles in lieu of dragging hose all over the arena floor. In my head, I'm asking myself why I don't have one of these and why I had been installing ice with a hose for all of these years. It's almost too easy.



We continue bond coats throughout the afternoon in an effort to cover the floor sensors in each corner of the FoP. Typically, I do three bond, three paint, three seal coats and then build ice. For this trip we decided to put the base paint at 1/4" to minimize the mess with the ice removal process. We are able to do two ice builds with the Motrec back to back. Fill the tank, rinse and repeat. At this rate, we are getting an estimated 500 gallons on the ice surface per hour. This is better than the volume from the hose with no sacrifice to the integrity of the build process. Additionally, we were able to reduce labor by two persons.

I typically calculate the install time based on the ability to get 300 gallons of water on the FoP per hour. This builds the ice in thin layers, reducing the air content and creating a dense sheet of ice. It's tedious and time consuming but, with champion-level figure skating, it pays off in the long run to have a dense sheet of ice to combat the jumps. We have the only FoP that has to take that factor into consideration amongst the arena clusters.

Target = 18,000 gallons of water
Timing = 500 gallons per hour
Total Hours: 36 (60 hrs. @ 300 ga)

Rick jumped on the Motrec to continue applying water. I was busy working on the preventative maintenance on the Zambonis, preparing them for the first ice maintenance later in the week.

At some point in the afternoon, we had our fist sucker-punch from the Motrec. The vibrations from the pump motor worked the boom fittings loose which lead to a massive distribution of water in a 30' area. No problem - flag Rick down, get off the ice, bust out the pipe-thread tape and rework all of the fittings. Rick went back to applying water while I continued prepping and planning out the rest of the week.

Two hours later we got our knock-out punch for the day. The battery on the Motrec died. Again, remove the Motrec from the ice and plug in.

Problem - U.S. plugs don't fit into Korean outlets.
Solution - Add adapter.

None in the arena so we added it to our list. Note to self - charge the battery before using.

The back tires required some air. Our compressor was missing a hose so Rick jacked up the rear of the machine and removed the rear tires. Into the rental car we go looking for air and a power adapter. Six hours later, after 10 gas stations and 3 hours of charades, we had a power adapter and air in the rear tires. Another note to self - gas stations in Korea don't have air pumps, don't assume anything...ever.

The rest of the ice install went well. We used the Motrec for the entire process as well as the white painted base. The Motrec has become my new best friend in the ice painting and installation process.



Later that week we set up our test schedule mimicking the actual Olympic schedule for ice and facility demands. The facility was purposely injected with outside humidity to simulate a 12,000-seat spectator load. Ice was tempered to short track surface temperature of 19°F. We simulated four hours of practice and the refrigeration system performed well maintaining ideal temperatures throughout the sessions. Short track ended at noon and figure skating practices began at 1:30 pm. We flipped the arena padding, changed refrigeration set points and warmed the surface to 27°F with two runs on the Zambonis. 1.5 hours later we were into full simulated figure skating practices. Again, the refrigeration responded well maintaining ideal surface temperatures throughout the sessions.

At 5:30 pm that evening, the official practice session had ended. At this time, we put the compressors to the first tough test. Take the ice from 27°F to 19°F as quickly as possible. Our changeover schedule is demanding and we need the ice to flip in two hours or less to accommodate the schedule. Rick set up shop at center ice with an infrared thermometer while Art Sutherland set up shop in the refrigeration plant. Once the session ended the engines of the plant went full speed ahead. Art ran them at maximum capacity while Rick monitored the surface temperature on 5 minute intervals. The end result was



(Continued on page21)

Rename the “Rink Rat”?

The NEISMA Board of Directors is considering a name change for this popular quarterly publication. Some feel that we have evolved as an organization and the name doesn't reflect the role we play in the ice rink industry. We've expanded and improved the publication now to twenty-eight pages, full color and glossy. In fact, some feel it's no longer a newsletter but rather a magazine.

Others, on the other hand, feel the name, format and image are fine and tradition should prevail.

So what do you think?

Possible names we've come up with:

- Rink Advocate
- Ice Advocate
- Rink Crusader
- Ice Crusader

Are there others that come to mind? Let us know what you think. - even if its to keep it the *Rink Rat*. If you come up with a unique name that we go with, there will be a special prize awarded. Please email us at:

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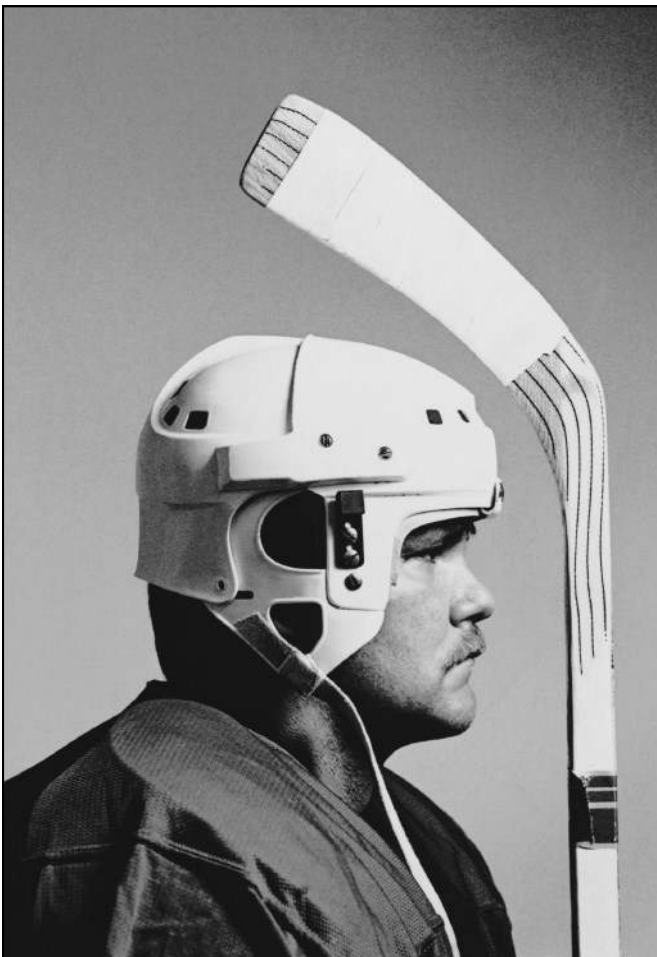
VENDOR SPONSORS NEEDED FOR FALL CONFERENCES

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The Dick Button Collection - The Art of Figure Skating Through the Ages

By David Korpiel



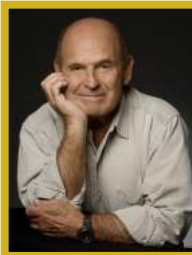
Dick Button is widely considered one of the premiere male figure skaters of all time. He dominated the world of figure skating for a seven-year period, winning two Olympic gold medals in 1948 and 1952 (shown here from '48 Olympics in St. Monitz), five consecutive World Championships, seven U.S.

National titles, and four North American and European Championships. Button has since had a long and illustrious broadcasting career spanning fifty years (1960–2010), becoming the first winner of an Emmy Award for “Outstanding Sports Personality—Analyst” in 1981. In December 2015 he was inducted into the Sports Broadcasting Hall of Fame as the first honoree of the “Sports Analyst” category.

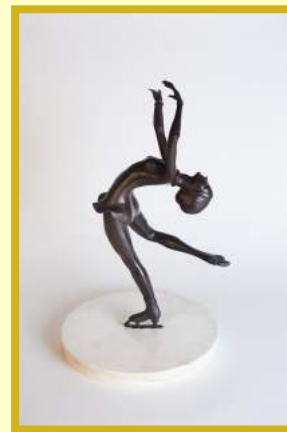
Button’s legacy in the sport extends beyond competition, performance, analysis, and production. He has built a diverse and distinguished collection of paintings, prints, posters, sculptures, costumes, and folk art that honors the long history, evolving artistry, and cultural impact of skating. Button’s collection of ice skating art ranges from 17th-century Dutch paintings to 20th-century sculpture. This multidisciplinary collection showcases the full range of media in which ice skating has appeared, and tells the story of the pervasiveness of the sport in everyday life across various cultures and time periods.

Button’s collection is currently on display at the Fenimore Art Museum in Cooperstown, NY. In addition to fine art, visitors will see costumes, photographs, advertising art, antique skates, and much more.

Here are some of the items currently on display:



Central Park - Currier and Ives



Bronze Statue of Peggy Flemming



Button’s Gold Medal
1952 Winter Olympics in Oslo, Norway



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(From page 14 - The Dick Button Collection)



Barney & Berry Ice Skate - Springfield, MA

The Fenimore Art Museum, located on the shores of Otsego Lake - James Fenimore Cooper's "Glimmerglass Lake" - in historic Cooperstown, New York, features a wide-ranging collection of American art including: folk art; important American 18th- and 19th-century landscape, genre, and portrait paintings; an extensive collection of domestic artifacts; more than 125,000 historical photographs representing the technical developments made in photography and providing extensive visual documentation of the region's unique history; and the renowned Eugene and Clare Thaw Collection of American Indian Art comprising more than 800 art objects representative of a broad geographic range of North American Indian cultures, from the Northwest Coast, Eastern Woodlands, Plains, Southwest, Great Lakes, and Prairie regions.

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Charles Moore Arena Goes Solar

NEISMA member Charles Moore Arena in Orleans, MA, has installed a 345 kilowatt (kW) rooftop solar system recently. The installation will help stabilize and reduce their biggest operating outlay, as the array will cover 50 percent of its energy demands.



Built in 1972 as a privately-owned rink, the Charles Moore Arena offers programs including Learn to Skate, Summer Cross-Ice Youth Hockey, In-House Hockey, Lower Cape Youth Hockey, and more. Looking for opportunities to save on the cost of electricity, Tony Nannini, manager of the facility, turned to solar energy as the long-term solution.

"Going solar was the perfect opportunity for us to take control of our energy costs, and we're excited to experience the benefits. It has already helped us solve issues with our roof as well," Nannini said. He said the rooftop array was financed through a Power Purchase Agreement (PPA) with Solect Energy of Hopkinton, MA, meaning Solect owns and operates the solar array and sells the power generated back to the arena at a reduced, fixed rate for the duration of the agreement.

The Charles Moore Arena is also host to the Lower Cape Coyotes, the travel hockey program, and the Lower Cape Figure Skating Association. The rink holds skating competitions, hockey tournaments and skating shows as well. For more information, visit their website: <http://www.charlesmoorearena.org/>.

Total Athletics Cape Cod Training Center Planned

Information gathered from Barnstable (MA) Patriot - 8/11/17

The proposed Total Athletics Cape Cod Training Center is scheduled to begin construction this month thanks to the Cape Cod Commission's approval in August. The \$12 million facility will be built at Merchants Way and Business Lane in Hyannis, MA.

The 92,000 square foot, two-story athletic field house will include an indoor ice rink, indoor turf field, indoor swimming pool, locker rooms, batting cages, fitness, training and rehab areas, food and concessions, pro shop, child care, community meeting space, and the Cape Cod Baseball League Hall of Fame Museum. In addition, outdoor athletic fields will also be added on the 800+ acre lot.

Space is also planned for an accessory retail pro shop, plus office and child care areas, while site improvements will be made on an approximately 8.29-acre lot for athletic fields.

The facility will play host to a number of school in the area providing both indoor and outdoor athletic fields of

play. Massachusetts Maritime Academy in Buzzards Bay will also be moving it's football program there.

The facility will feature one ice skating rink which, along with the two sheets at the Hyannis Youth and Community Center, will allow Hyannis to host larger tournaments and ice events.



Total Athletics Cape Cod Training Center
(Conceptual Rendition)

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NEISMA PUZZLER ANSWER

By Ed Peduto

As expected, the number of email answers to last edition's "NEISMA PUZZLER" was underwhelming. A meager total of TWO responses from our passionate readers (insert frown here).

The first astute reader mentioned tree branches blocking the tower and coincidentally a conjugal weekend visit of animals inside the tower..... both are good guesses, alas both are wrong! ...but I'll catch up with that reader later concerning her need for a weekend conjugal visit!

My arena staff put their heads together and confidently guessed a control issue (that can mess up anything and never leave a trace!) with a Building Management System or other system shutting down the fan momentarily. Great Guess, but WRONG.

The second reader is our winner. While his answer was VERY incorrect, the detail of his experience with scale on his evap condenser and the detail of the State of NY registering EVERY tower in the state in an effort to control Legionella merits him the Grand Puzzler Prize (prize to be determined)! Our Winner is Bruce Osborne from The Harvey School in Katonah, NY (or is it Bruce Harvey from the Osborne School???)

As I stated, NEISMA members with a combined 125+ years in the business could not figure this one out. So here's the answer. Drumroll please!

On the third week, before the crew restarted the tower, they opened the cooling tower access panel and found the answer. The down-on-his-luck guy had left a BAR OF SOAP in the tower before getting out. He was tower-savvy enough to shut the tower power down before climbing in, leaving him a warm sump of water to bathe in and an ever-hotter shower of condenser-

exiting water to rinse in. He would climb out, secure the access panel, the system was now OUT on HIGH HEAD pressure and he would turn the Safety Switch back on, essentially leaving no evidence of his having been inside for his weekly bath.



The tower was easily secured with locknuts to prevent the access hatches from ever being removed without the proper tools!

So, as bad as your day may be going, take heart that you have never had to shower in your cooling tower!

THE RINK RAT

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NEISMA

NEISMA is a professional service organization, organized to provide the ice skating industry with education and training. Since 1972 NEISMA has disseminated technical information and conducted seminars on rink equipment, energy, air quality, marketing, skating programs, maintenance and safety. NEISMA provides the professional rink manager with the technical information needed to operate a safe, efficient and profitable facility. The NEISMA Board of Directors is not a testing lab for vendors or their products. We are not responsible for vendor representations or errors. We neither endorse or recommend any vendors products.

First Impressions Make the Difference - How to Keep Your Rink Glass Clean

By Tom Walsh

We all know that the most important thing about the rink is the ice. But the casual user dropping off their skater for the first time will notice other things. They notice if the glass doors in the front lobby are clean. They notice if the lobby itself is clean. But most importantly, they'll notice the glass that they are looking at Little Johnny through is dirty. Not if it's clean but if it's dirty.

Bill Chase once told me he could tell how well a rink was maintained by checking out the glass. Most people are not fans of cleaning glass but, for some reason, I kind of enjoy it. Now, there are some days that no one wants to do it. The key is to avoid the overwhelming feeling of cleaning a disaster.

Before the season gets rolling, it's best to bust out the buffer and puts a good coat of cleaner/ protectant on and get it looking good so that it isn't so daunting when the ice is under heavy use. It makes the periodic cleaning so much easier. With most rinks having tempered glass now it really isn't that time-consuming to give the place a touch up. You can do the bulk of the work in a couple of hours by yourself for both sides the rink or you could just hit the high traffic spots in 30 minutes. If you can find a partner it's even better. You can shoot the bull and get something done that'll get a rink guy's attention even if none of your customers says it looks good. They just won't point out your glass is dirty.

I found the simplest and quickest way to do it is to get a nice brush on a 6 foot stick. A soft boat cleaning brush works well with a good size squeegee. The squeegee

should be wide enough that you only have to make two or three passes down the sheet. If your glass is 48 inches, a nice 18 inch squeegee works wonders.

Get a clean five gallon bucket and some dishwashing soap. I prefer Dawn as it is eco-friendly, pulls the grime right off and works well on the puck marks. They used it to clean up the rocks and wildlife after the Exxon Valdez spill and your glass can't be that bad, I hope. Put a couple squirts of your soap in the bottom of the bucket and blast it with some almost hot water. Not too hot as the brush tends to get gummy.

A couple quick passes up and down, side to side and hit it with the squeegee and you're moving on to your next piece. Most of the stuff will come off fairly easy. You might have to put a little weight behind the helmet scrapes or sometimes the butt end of the stick leaves a nice mark. I like to save a little time and soap 8 pieces or so then go back to squeegee it clean. Plus I'm usually tired after doing numerous pieces and I get a breather walking back to the beginning. It's the little things that'll get you through the day.

Also, try not to get too much on the ice. It shouldn't hurt the ice but it looks a little funky afterwards with frozen foam. Good time for a quick edge before you move on to your next project.

Plexi is a different story - and for a different Rink Rat!



2017 - 2018 Membership Application on page 27.

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Name These Players from the 1980 Olympic Gold Medal Team



A. _____



E. _____



I. _____



B. _____



F. _____



J. _____



C. _____



G. _____



K. _____



D. _____



H. _____



L. _____

Hints (initials):

In no particular order -

BS

JC

MW

RM

ME

MJ

KM

BS

JO

MR

DS

NB

Extra Credit:

Who was the only roster player who saw no game action?

Answers on page 23.



(From page 12 - Making Ice in PyeongChang - Part 4)



one hour and forty minutes! We are all impressed with the capacity of the refrigeration room. Art took it one step further and calculated the lag between when the temperature drop began on the ice surface in relation to the refrigeration cycle of the glycol. He estimated we had 30 minutes of lag. This information is critical as it allows us to begin the processes of removing heat from the concrete floor and ice surface 30 minutes prior to the end of the competition with no change in temperature on the skating surface. With that data at hand we are able to take the changeover process for the ice from 1:40 to 1:10!

The following day we simulated a full day of competition starting with figure skating temperatures. 30 minutes prior to the end of the figure skating session, we began to



bring the floor down to short track temperature. Rick and Art posted up in their respective spots again and like clockwork the floor began reacting at the 30 minute mark. One hour later we were at speed skating temperature! The goal and objectives were met and I couldn't be happier with the performance of the refrigeration and mechanical systems of the arena. I am looking forward to putting the building through the Olympic paces in January!



Cory Portner (left) has over twenty (20) years of ice industry experience. In addition to being responsible for the speed skating and figure skating ice for the upcoming Olympic games in South Korea, he is also the Associate Director of the Herb Brooks National Hockey Center at St. Cloud State University.

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Thomas Trahan
Glastonbury, CT
1951 - 2017

It is with sadness that we learn that long-time employee with the Cimco Lewis Company, Tom Trahan, died this past summer. He most recently worked at the University of Connecticut as a Senior Plant Engineer. Our condolences go out to his family and friends.

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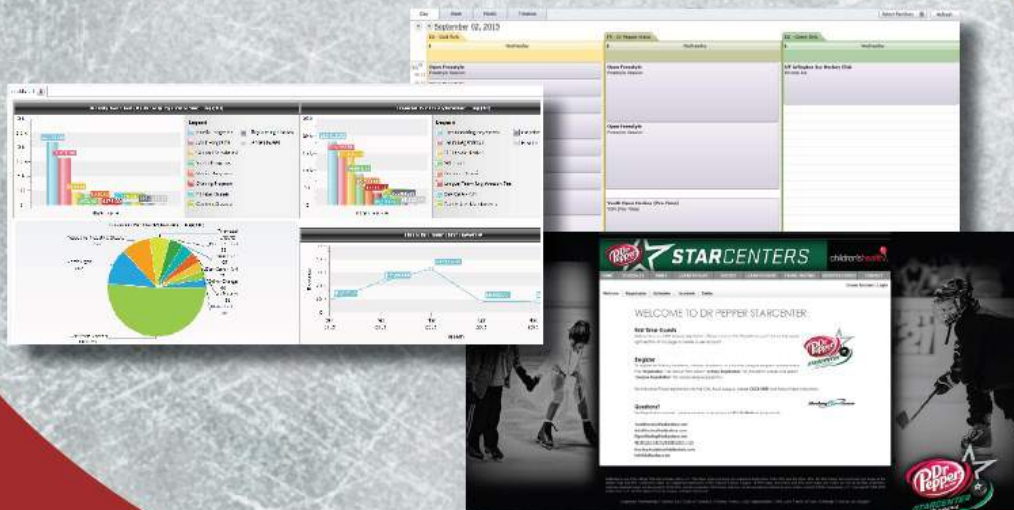
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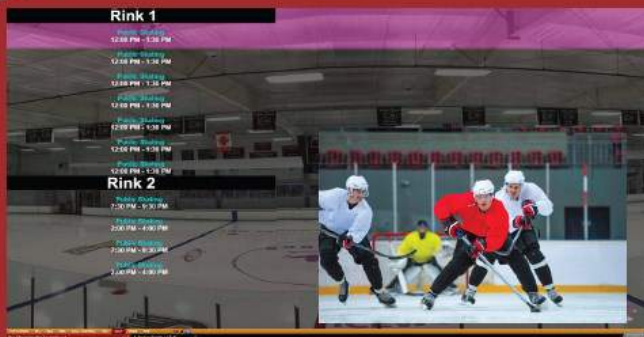
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- Beth Lenz, Kettler Capitals Iceplex



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Located in the Olympic Center, the Museum is only a few feet from the Herb Brooks Arena where the 1980 “Miracle on Ice” hockey game took place and the Jack Shea Arena, home of the first indoor Winter Olympic skating arena. Explore the history and heritage of winter sports in Lake Placid - the first winter resort in the United States - through artifacts, photographs, and videos and visit the Olympic Center where athletes continue to train and compete daily.

While moving through the exhibits, see cultural differences of each host country reflected through the unique designs of their medals, torches, posters and mascots.

Permanent Exhibits and Displays

Quest for Speed - The exhibit explores a speed skater’s quest for speed at the Olympic Games and what it takes to attain their goals. With a timeline showcasing the design evolution of speed skating equipment, along with interactive activities, and graphic text panels, visitors will catch a glimpse into the mind of some of speed skating’s greatest such as Jeanne Ashworth, Bonnie Blair, Apolo Ohno; and Eric Heiden.

Sonja Henie: Perfection on Ice - Sonja Henie was one of the greatest figure skaters of all times. Skating in the first

Olympic Winter Games in 1924 at age eleven, Sonja finished last there, but in the next three Olympics she won three gold medals for Norway.

Miracle on Ice - Relive the “Greatest Sports Moment” of the 20th century when watching original footage of the game and see equipment and other artifacts from the 1980 US Ice Hockey Team.

1932 Olympics - Learn how the Village of Lake Placid won the bid for the 1932 Olympics and see memorabilia from the Games, and the equipment used then by speed skaters, hockey players, and bobsledders.

Museum Curling - Learn the strategy and history behind this unique Olympic event that started as a demonstration sport in 1932. Here you can practice your skills against your friends.

Sliding Sports - You can learn about the history of bobsled, skeleton, and luge and view a collection of sleds, photographs, and sliding sports equipment.

Current Temporary Exhibit: “A Ski Jumping History at Intervales”

It is hard to imagine Lake Placid without thinking of skiing. Our ski history began over a century ago, when the Lake Placid Club remained open for its first winter in 1904 - 1905. In those early years, skiing meant cross-country touring and ski jumping. When the Club began constructing ski jump hills, no one could have pictured the world of ski jumping Lake Placid knows today.



A Dave Silk
B Buzz Schneider
C Rob McClanahan
D Jack O'Callahan
E Ken Morrow
F Mike Eruzione
G Mark Johnson
H Mike Ramsey
I Bob Suter
J Jim Craig
K Neil Broten
L Mark Wells
Extra Credit - Goalie Steve Janaszak

Answers from page 20:

Rink Improvement Project: Installation of “Curvyglass” at Burbank Ice Arena

By Ed Peduto

The rites of spring at our arena include high school ice hockey championships, crocuses blooming, the North Shore Skating Club’s Ice Spectacular Skating Show and planning for summer improvements. We list all of our dreams to make life better at the rink, prioritize them, price them and eventually pick a few to implement. Historically, most are cosmetic, some improve customer convenience, fewer still involve player safety. Fortunately this year we were able to complete some of each, with the most well-received to date being the new water fountain which has the ability to simply and easily fill water bottles of all shapes and sizes. If you don’t have one, get one! In the long term, however, I think the improvement that allows me to sleep the best and improves player safety is the installation of “curvyglass.”

Circa 1988, my rink at the time had just completed the

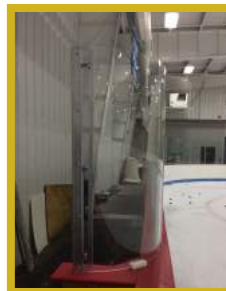
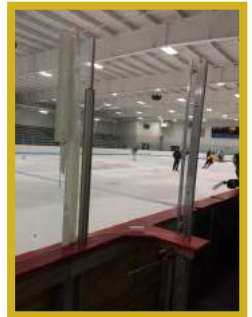
change from good-old chain link fencing atop the dasher boards to tempered glass, having completely skipped the plexiglass stage of the 70s and 80s. Traveling rink salesman Bill Chase arrived to sell the latest and greatest rink padding for the spots where the glass ends. We drilled the requisite holes, installed steel pipes and wrapped the space-age padding around the pipes. As far as I know, that padding lasted until the rink floor and dasher boards were redone some 10+ years later.

Fast forward to spring of 2017 and an attorney calls to ask all about my 1988 work....

“Really? 29 years ago?” I remembered more than I ever thought I would but I also remembered that rink having done an entirely new set of dasher boards long after I left. Subsequently, an injury occurred and the barrister left off by saying “you’ll be on the witness list but it’s unlikely you’ll be called.” Gee, thanks.

That call gave me pause to study my current set of boards for any flaws. Sure enough, the same padding installed in 1988 graced the endposts of my current glass runs. I’d seen the arced glass in a few NHL and college rinks and decided to price it out. A veteran of the Rink Trade Show circuit, I know my fair share of rink suppliers. After pricing things out, I settled on doing business with Scott Overgaard at Rink Systems, who quoted a very fair price and was very confident that we could get the parts installed with his expertise and support. Upon arrival of the parts, my assistant, Jim Brown, proclaimed, “We’re getting Curvyglass?!”...the name has stuck! Curvyglass it is!

Installation thus far has been straightforward and the new glass has been very positively received. I’ve included a before and after picture for you to judge for yourself. When all has been said and done, and all the curvyglass gets installed, I’m sure I’ll get at least one reviewer to say “I like the curvyglass, but I LOVE the new water fountain!” Life in the new millennium...



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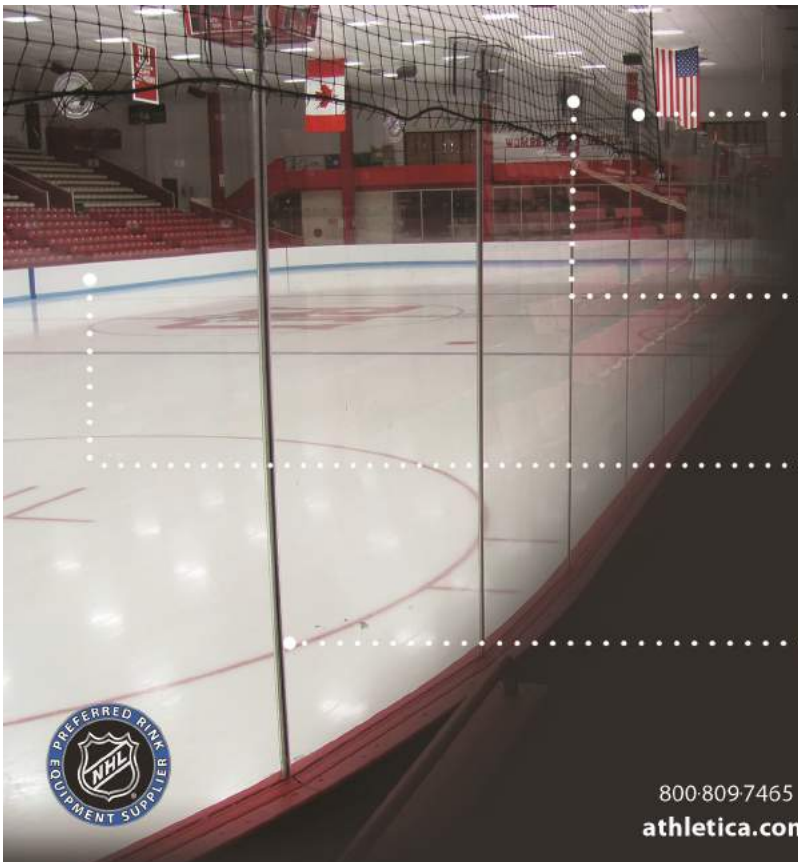
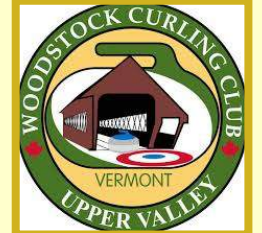
Arena Curling Continues to Grow!

By Russ Lemcke

More curling clubs are being added throughout the northeast in advance of the 2018 Winter Olympics. New arena clubs include Brooklyn, Syosset, Pittsfield and Ithaca, NY; Hartford, CT; Cranston, RI; Bridgewater, Hopedale, Marlboro and Nantucket, MA; Conway and Essex Junction, NH; Rutland and Woodstock, VT; and Portland, ME. And more are on their way.



Invariably, the Winter Olympics bring a significant surge in interest. So if any rinks wish to explore how to get a curling club going in your area, contact Russ Lemcke (pictured here) at: russlemcke@comcast.net.



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College/University enrolled in the Fall 2018: _____

Major/Minor: _____

Rink industry work history: _____

NEISMA Member Affiliation (dues paid 2017 – 2018):

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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

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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.



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| Wed, Nov 1 | University of Vermont Gutterson Field House |

DAILY SCHEDULE

| | |
|-----------------|-----------------------------------|
| 8:00 am | Registration; coffee and pastries |
| 9:00 am | Welcome; Lake Placid presentation |
| 9:30 am | Seminar/Speaker (see pages 4 - 5) |
| 10:30 am | Seminar/Speaker (see pages 4 - 5) |
| 11:30 am | Building Tour |
| 12:00 pm | Lunch |
| 1:00 pm | Seminar/Speaker (see pages 4 - 5) |
| 3:00 pm | Depart |
| Cost: | FREE |
| SIRO: | \$75 / person |

See registration form on page 7. Please register in advance so we know how many are coming.