

ISI EDGE

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Ammonia Safety

ISI Field Reps



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The ISI EDGE (USPS 017-078, ISSN 1522-4651) is published quarterly (Fall, Winter, Spring, Summer) by the Ice Sports Industry, 6000 Custer Road, Building 9, Plano, TX 75023. Periodicals postage paid at Plano, TX, and at additional mailing offices.

POSTMASTER NOTE: Send address changes to ISI EDGE, c/o The Ice Sports Industry, 6000 Custer Road, Building 9, Plano, TX 75023. Printed in the U.S.A.

Subscriptions available through membership only.

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IN MEMORY: BOB SKRAK

Another pioneer of the American ice arena industry has been lost with the recent passing of ISIA Charter Member Robert (Bob) Skrak, 91.

Bob died at his home in Orinda, Calif., on Dec. 28. His colorful career in the ice skating business spanned six decades.

"Those who were lucky enough to know and work with Bob were fortunate to have an open window into the early years of the American ice skating industry," said former ISI Executive Director Peter Martell.

"Bob was one of the most passionate people in this industry bar none," said Jay Wescott, who retired as general manager of Eastbay Iceland, Inc. in 2016. "I admired his energy and passion — I loved that guy! He and I met weekly and I like to think that I had a really great relationship with him ... He loved his rinks; he would fight for them tooth and nail ... He was the face of Eastbay Iceland for a long time and he saved Berkeley Iceland."

"I had the privilege of succeeding Bob upon his retirement from East Bay Iceland," added Burbank Ice Arena General Man-

ager Ed Peduto. "His life story amazed me, especially his years performing in the Ice Capades while he drove the then-new Zamboni machine at intermission. Bob took rinks that others had failed at running and made them

winners. I attended his induction ceremony into the NEISMA/Frank J. Zamboni Hall of Fame and his emotions were touching. He spent his life in, and committed to, ice rinks. Our lunches at Brennan's in Berkeley will remain as fond memories for me. The ice rink industry has lost a multifaceted founder; I have lost a dear friend."

Bob and his wife, Joyce, attended the 2013 ISI Conference in Las Vegas, where he was presented the Legacy Award for his support and contributions to the early development of ISI and the ice skating industry.

Bob received the first Arthur Goodfellow Award from then ISI President Jim Hartnett at the 2006 ISI conference in Boston.

Early Years

Originally from Pittsburgh, Bob, along with friends and past industry icons Joe Setta and Willie Kall, was recruited by Pittsburgh Ice Arena Owner John Harris for his new touring show, Ice Cycles, which several years later was renamed Ice Capades.

Bob and Joyce toured the country skating in the show. Bob also served as operator and mechanic of Zamboni No. 4, which was purchased by Ice Capades and used during their shows. (The machine is now on display at the U.S. Hockey Hall of Fame in Eveleth, Minn.)

While touring, he worked closely with Frank J. Zamboni on modifications and improvements to later model Zambonis. In 1954, he was the first person to drive a Zamboni machine and resurface the ice at an NHL game (a Bruins game at Boston Garden).



Following their show careers, Bob and Joyce settled in the California Bay Area, where he served as general manager for East Bay Iceland Inc., the parent company of the Iceland arenas in Berkeley, Belmont and Dublin, Calif.

In addition to Joyce, Bob's survivors include one sister, five children and nine grandchildren.

IN MEMORY: JIM DAVIS



James (Jim) Davis, 85, died peacefully on Jan. 9 surrounded by his wife and children at his home in Bakersfield, Calif.

Jim was an integral part of the Zamboni team for two decades, traveling extensively throughout the country, with special emphasis on the Midwest. He was involved in company management, product development and sales.

Born on Aug. 7, 1932 and raised in Long Beach, Calif., the first of three sons born to George and Teresa Davis, he graduated from St. Anthony's High School in 1950, went on to Loyola University in Los Angeles and joined the Army in 1953. Jim received his bachelor's degree in mechanical engineering from California State University Long Beach. Jim also worked for Western Gear in Lynwood, Calif., and Pacific Land Company in Cerritos, Calif.

Jim was a man that wore many hats, but most of all, he was a loving husband, father and a proud grandfather to 13 grandchildren and 11 great grandchildren.



Jim Hartnett

LENGTH OF SERVICE ON BOARD:
30 years



Vicki Klinko-Osseland

WORDS OF ADVICE: "Be open to anything and everything that might increase traffic and revenue in your rink and as a coach. Promote the skating and ice arena industry as a whole and not just a small niche of it!"



Jamie Baringer

FAVORITE PART ABOUT SERVING ON THE BOARD OF DIRECTORS:

"Being around others who care enough to help make changes in the industry. People always want change, but it can be hard to find people who are willing to do something about it. We have an amazing board, both past and present, that is willing to go the extra mile, all because of their passion for the industry."

The Ice Man of Pyeongchang

ISI member Brandon Klement, owner and operator of Complete Ice Arena Services in Dallas, is serving as the assistant chief ice technician for the ice hockey venues at the 2018 Winter Olympics in Pyeongchang, South Korea. Complete Ice Arena Services is a full-service ice resurfacer repair company, Southwest U.S. Olympia distributor and supplier of products and services for ice arenas.

"I was selected by Don Moffat, who has worked at the Vancouver and Torino Olympics," said Brandon. "He was recommended by the IOC [International Olympic Committee] and the IIHF [International Ice Hockey Federation] to the Pyeongchang organizing committee. Don and I have worked together for 10-plus years with different organizations ... I naturally jumped at this opportunity; it would definitely cross one major item off my bucket list that I never thought would be completed."



Brandon Klement and Martin Hyun, deputy ice hockey sport manager for Kwandong Hockey Centre, venue for the 2018 Olympic women's ice hockey tournament.

Energy Company Awards San Diego Ice Arena

The San Diego Gas & Electric Company (SDGE) named the San Diego Ice Arena the 2017 Energy Showcase winner in the sports venue category.

"When we took over the arena, we were at about 3,700 kWh per day and didn't think we could come close to zero net energy," said arena owner Mark Linssen in a press release issued by SDGE. "However, after putting together a plan, being innovative and implementing over 11 energy-efficiency measures we are now at 750 kWh per day and foresee a day that we may get to our zero-net energy goal."

THE FACES OF ISI

Shirley Rothrock



If you've ever called the ISI office, chances are you've heard Membership Assistant Shirley Rothrock on the other end of the line, with her syrupy, Southern drawl. Known for her quick wit, she keeps the ISI staff and board chuckling, and her energy at age 82 is an inspiration to all. She has been with the organization since 1999 — almost 20 years!

In addition to answering calls to the office, Shirley prints membership cards and other items for mailings, confirms membership information and helps on special projects. Her favorite part about working at ISI? "Answering the phone and helping members," she says. "I love our members!"

Incredibly, Shirley never seems to slow down. In her free time, she enjoys water aerobics, reading, charity work and having lunch and dinner with friends.

"Age ain't nothing but a number," she says. "Enjoy every day of your life and treat people like you would like to be treated and life will be good."

More Shirley

Birthplace: Southern Louisiana

Education: High School; Draughan's Business College; various classes at Richland College

Family: "I have a wonderful family life, and I'm married to the greatest man. I love my children and grandchildren."

Favorite Place: Red River, New Mexico

Song Title That Best Describes Her: "Young at Heart" by Jimmy Durante

Shirley can be reached at Shirley@skateisi.org or 972-735-8800.

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LEADERSHIP MESSAGE

Jane Schaber

*ISI Membership Development Coordinator
ISI District 10 Director
Schwan Super Rink Skating Director
Blaine, Minn.*

Building Relationships is Critical to Our Success

We are excited to announce that we have expanded our membership services staff with the addition of three field representatives: Lauren Hunt, Shanley Pascal and Mandy Whitacre. While one of their responsibilities is to continue to grow our membership base, they will also provide enhanced customer service to our existing members.

Networking and relationships are crucial in our industry, as it is through these efforts that we will continue to grow the ISI. Our new field reps will enable us to be in more regular contact with all Administrative members to address any concerns or questions they may have, to help with anything needed and to make sure that members are maximizing their membership to its fullest — taking advantage of all ISI programs and benefits.

Lauren, Shanley and Mandy have been reaching out to district directors, facility managers and program directors to introduce themselves. They

will continue to work closely with our district representatives and the ISI staff to continue to share members' feedback. If you have received a message from one of them, please be sure to return their call to get acquainted. They are eager to speak to you!

These professionals offer a vast amount of knowledge and experience in utilizing ISI programs and services and are an excellent resource for growing and improving facility programming.

Many of you still have questions regarding the new Individual membership and test registration process. They will work with you to find a satisfactory solution for implementing this new procedure.

Conversation is power, and by communicating and working together, we can continue to build a healthy, flourishing ice sports association that supports our members and the industry overall. As stated in previous communications, the ISI is a membership-driven

organization, so maintaining a solid membership is critical to our continued success.

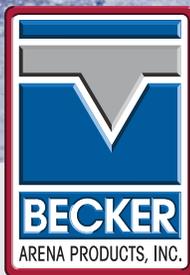
I encourage you to actively engage in conversation with the ISI staff, board of directors and district directors. More importantly, I challenge you to reach out to at least two members (who you don't already know) and potential members to begin conversing.

Since ISI encompasses the ice sports industry as a whole, this is a unique opportunity for you to reach out to a coach, skating director, facility manager or operator to trade information, gain a better understanding of another facet of the industry and to share how the ISI has benefited you — the reasons why you are "ISI Proud."

With knowledge, comes power to make informed decisions — start those conversations today! **ISI**

(For more information on our new field reps, please see page 8.)

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New Field Reps Eager to Share the Benefits and Joy of ISI



We are pleased to announce our new field representatives, who will serve as resources for our existing members and educate potential members on the value of ISI programs and services: Lauren Hunt, Shanley Pascal and Mandy Whitacre. They are excited to be the voice of ISI in their regions and to help grow ISI membership.



Lauren Hunt



Shanley Pascal



Mandy Whitacre

Lauren Hunt

*Skating Coach
Ford Ice Arena
Nashville, Tenn.*

Lauren recently relocated from her hometown of New York City — where she served as the World Ice Arena skating director for nine years — to Tennessee to coach at Ford Ice Arena in Nashville. She has 16 years' experience in the industry, which includes eight years of directing programs and 16 years of coaching. Early in her career, she coached a synchro team that became the 2009 U.S. Figure Skating champions. She also moonlights as a professional musician (singer and guitarist).

Lauren was eager to be an ISI field representative because the organization helped her find so much success with her own programs and, therefore, she wanted to share that knowledge with other program directors and managers.

"I think a lot of people don't know how many resources ISI has to offer," she says. "I love the rink industry and connecting with the people who make it run. I'm excited to meet ice rink professionals all over the United States, learn about their own unique challenges and help them find new ways to apply ISI resources for success."

ISI programs were Lauren's introduction to skating. "I still remember passing through the basics and sewing patches on my jacket," she says. "The rink I grew up in had a strong ISI program that kept us social and having a blast in group classes all the way into advanced freestyle levels, and I have so many great memories of that."

As a director, Lauren loved using ISI programs. "They provided me with all the resources I needed for success, the ISI treated us like members of their family and my skaters and coaches loved it!"

Most importantly, according to Lauren, ISI has provided a wide array of educational programs that have fostered her professional growth. "As a coach, ISI has provided me with an amazing variety of ways to keep my skaters engaged and having fun. As a new director, ISI was invaluable to me for so many reasons. I learned how to run successful programs through ISI educational programs and from spending time on the phone with members of the patient and generous ISI staff. The ISI Membership Rewards program also gave me the resources I needed to take full advantage of everything they have to offer."

Lauren will serve as a resource for ISI districts 2-5 and 18. She can be reached at Lauren@skateisi.org.

More Lauren

Education: Bachelor of Fine Arts in Theatre, New School University, New York City

Favorite Off-Ice Activities: Running, yoga, hiking, camping, making music and trying new recipes

Homefront: Lauren and her boyfriend, Anthony, and toy poodle, Lennon, recently made the move south from her hometown of New York City to Nashville, Tenn., and they are loving their new home.

Shanley Pascal

*Director of Programming
Lakeside Brooklyn
Brooklyn, N.Y.*

As director of programming for the past two-and-a-half years at Lakeside Brooklyn in Brooklyn, N.Y., Shanley Pascal oversees all programs, including skate school, figure skating, hockey, curling and broomball, and handles rink scheduling and contract negotiation for rink rentals. She also serves as project manager for multiple seasonal rinks on the West Coast. Previous positions include: distribution coordinator for broadcast events, ISI District 3

associate district director, City Ice Pavilion skating director and a skating instructor for various rinks. She resides in Los Angeles.

"Lakeside became an ISI facility under my management, and the significant growth it experienced since then earned it the Outstanding Facility Award this past May for registering the most ISI Individual skater memberships," says Shanley.

She desired to be an ISI field representative because she wanted to see her favorite sports flourish. "It is my firm belief that supporting the rink industry is key in supporting all ice sports," she says. "The more opportunities people have to skate, the more opportunities they have to become fans of skating and of the ice. I am most looking forward to swapping stories and seeing how different rinks operate, the challenges they face and how those challenges are addressed."

Shanley loves how ISI focuses on inclusivity rather than exclusivity at every level of the ice sports industry, from participants to instructors, managers/operators and facilities.

"For the development of the sports that we love, it is pivotal that attention be paid to the recreational participants who make up the bulk of the clientele," she says. "ISI does this by cultivating a very healthy mindset in the recreational participant, teaching them that success can be measured in many ways. Perhaps more importantly than that, ISI recognizes that the success of the industry is reliant on its facilities and provides unparalleled support to them as a result."

Shanley, who grew up with the ISI skating program, credits the organization for encouraging her to continue skating — something she loves to do — even though she wasn't Olympic-bound. She also attributes her successful career to the ISI.



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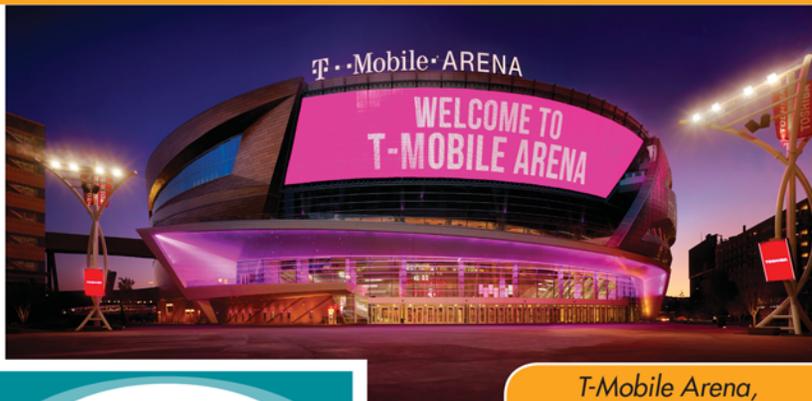
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» "As a skater who started taking group classes with the ISI program, a coach who taught within the ISI program and a manager who continues education with ISI and implements the ISI program, I would say that ISI has hugely benefited me in my professional career," she says. "ISI was instrumental in my development as a coach and director, leaving no phone call unanswered and providing endless opportunities to learn more."

Shanley will serve as a resource for ISI districts 11-16. She can be reached at Shanley@skateisi.org.

More Shanley

Education:

- New York University Tisch School of the Arts, Bachelor of Fine Arts
- ISI University: Certificate in Arena Revenue Generation, Certified Skating Director (CSD), National Instructor Certification (Intermediate, High)
- PSA-certified Group Instructor and Registered Skating Director

Favorite Off-Ice Activities: Theatre, yoga, barre, Pilates and reading — everything from books to fashion blogs

Homefront: Shanley and her boyfriend recently relocated to Venice, Calif., after living in New York City for several years. One tough adjustment they've

faced is trading in their MetroCards for car keys; an easier one is trading snow boots for sandals, she says.

Mandy Whitacre

*Ice Instructor
City of St. Peters-Rec Plex
St. Peters, Mo.*

An ice instructor for 17 years at City of St. Peters-Rec Plex in St. Peters, Mo., Mandy Whitacre has a middle school teaching background in science and has served as an ice show costume coordinator.

Serving as an ISI field representative is a natural fit for Mandy. "My passion for ISI is evident at my rink," she says. "I'm very involved in the program and I love participating in as many ISI events as I can during the year, with or without students. I have recently been working with my own rink to develop an ISI team/club to bolster even more participation with ISI."

"I love talking about the program and its benefits to all skaters, and the ISI field representative position sounded like the perfect opportunity to spread the word about ISI to even more people!"

Mandy is looking forward to talking to and potentially meeting people from all over the United States as she shares the value of the ISI program.

She learned ISI's skating curriculum during her sophomore year of college so she could teach at the local rink. Prior to that, she had only known the U.S. Figure

Skating curriculum. "ISI's curriculum is logical and straightforward," she says. "I was able to train to be an instructor utilizing ISI's wealth of resources accessible to all instructors. I have been able to build my diverse skating business due to ISI's broad-reaching program. I teach tots, adults, special needs students and hockey players. Students can compete locally or nationally — the sky's the limit with ISI, and I love that!"

Mandy will serve as a resource for ISI districts 1 and 6-9. She can be reached at Mandy@skateisi.org.

More Mandy

Education:

- Bachelor of Science in Fisheries and Wildlife with a minor in Biology
- Master of Arts in Teaching — Middle School Science

Favorite Off-Ice Activities: Reading, watching her son play hockey and piano; volunteering at her kids' schools; helping her daughter learn skating programs; substitute teaching; hosting dinner parties; cooking; craft sewing.

Homefront: "I love spending time with my family. We spend much of that time at the rink, since my son plays hockey and my daughter figure skates. We enjoy hanging out with friends and family at our home and hosting parties. Our favorite party of the year is our huge Halloween party that we host in our backyard." 



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Goals

FOR THE NEW YEAR

With a new year comes renewed energy and resolve to tackle something never done before or to complete a long-overdue goal. With this in mind, we reached out to several industry members to inquire about their professional and/or personal goals for 2018. Here's what they had to say:



RYAN DEVLIN, CIT
Ice and Turf Supervisor
The River's Edge
City of Davenport Parks and Recreation
Davenport, Iowa

"In a professional capacity, I am always working on meeting our revenue goals. The River's Edge is an enterprise facility owned by the City of Davenport. This means we are funded by revenue generated through user fees and not by local taxes. Specifically, I am working toward increasing revenue through better utilization of our various advertising mediums and partnerships. Personally, with four daughters ages 3 to 15, I am constantly working to stay on everyone's good side."



KAITLYN RANDALL
Skating Program Facilitator
Brett Memorial Ice Arena
Wasilla, Alaska

"My professional goal for the new year is to inspire — whether it be coaching, teaching group lessons or inspiring our ice skating instructors. I want to share my love of skating with all the kids, teens and adults that walk into our rink and show them that we truly do have a place for everyone. Our rink embodies the Ice Sports Industry's motto of 'participation, not elimination.' There is a spot for everyone on our team. I also hope to grow our Theatre on Ice team within the new year. The Brett is currently the only ISI rink in Alaska with a competitive Theatre on Ice program, and this season our team has grown to include 22 skaters!

"My personal goal for the new year will be to simply live life and focus on enjoying

every single day. I have a wonderful life with a beautiful family, and I want to celebrate that every day. I am also going to push myself to try new things and to have confidence in myself!"



DON BALDWIN, PHD
Senior Development Specialist
RMSC General Manager
Certified Ice Rink Manager (STAR, CIRM)
Lloyd Center Ice Rink
Portland, Ore.

"My professional goal is to help five more groups build or operate new ice rinks and to make sure Lloyd Center Ice is the best place to skate! My personal goal is to get started on the [Certified Arena Executive] CAE certification from ISI. I think this may take more than one year."



DIANE PAUL
Skating School Director
Tampa Bay Skating Academy – Oldsmar
Oldsmar, Fla.

"My professional goal for the new year is to work together with my amazing team of coaches to breathe a renewed life and enthusiasm into all our programs. It has been a down year for us — as it seems to be in many, if not most, rinks across the country. I was recently inspired by one of the pastors at my church to take an ownership rather than a renter's mentality when it comes to serving. That spurred me to look further into what leaders have had to say on that topic. How do you treat your house, a car, etc. when you rent it as opposed to when you own it? If we step into the rink as an owner each day — no matter what our position is on

paper — it will affect everyone around us and can only bring positive results which ultimately bring more revenue to keep our businesses open and prosperous for all — skaters, parents, coaches, employees and owners."



AMY BLOMME
Lead Manager
Crown Center Ice Terrace
Kansas City, Mo.

"My personal goal for the new year is to take a family vacation to a destination we have never been before. We all need to seize any opportunity to spend time with family and relax. My professional goal for the new year is something I strive for every day: I try to reach out to anyone I see struggling and help them feel more comfortable with the idea of skating — whether I help them tie skates, assist them around the rink a couple times or help them learn a basic technique so they can enjoy their experience. We are all so busy it can be easy to overlook someone in need; it is my goal not to overlook someone in need."



STEVE NELSON
Manager
Dublin Iceland
Dublin, Calif.

"My goals are to run our ice rink as best as possible for our customers and owners. If I can keep a good balance and both sides of the business happy then I'm doing my job. We have been in operation for over 40 years and are still going strong." **ISI**

Industry Professionals Discuss Ammonia Refrigeration Safety

by Art Sutherland

ACCENT REFRIGERATION SYSTEMS of Victoria, British Columbia, held an Ammonia Safety Symposium on Nov. 18 at Westhills Arena in Langford, British Columbia, to review the current state of refrigeration safety in the ice arena industry and to discuss best practices and ways to improve refrigeration safety.

The symposium was well attended by an invaluable cross-section of industry professionals including engineers, refrigeration contractors, refrigeration instructors, plant operators, safety authority inspectors, first responders, members of the International ASHRAE 10.2 Ice Rink Committee and members of the CSA B-52 Board.

At the time of the symposium, the final report of the tragic event that took the lives of three people in Fernie, British Columbia, had not been released, and given the fact that two of the attendees were on the investigating team, it was agreed that we would not directly discuss the incident. Following a round of introductions, which emphasized the depth of knowledge in the room, ammonia safety discussion ensued.

The following input was compiled from feedback from the participants and is meant as a starting point that industry professionals can expand upon in the future.

In Canada, there is a well-developed ammonia installation requirement as regulated by the CSA B-52. The code has a minimum best practice but does not prescribe better practices that can improve safety further. Greater practices can be and should be asked for by the end users if there is a concern.

It was pointed out that while British Columbia has mandatory operator requirements, other locations in North America, including neighbors as close as Alberta, have none.

Given the fact that the Fernie incident was the first time in over 100 years that there has been a fatality in the recreational ice industry due to ammonia, it is clear that there is a high standard for ammonia safety. It was indicated that there have been at least three fatalities in facilities that were using the perceived safer A-1 refrigerants (Freon/R-22), emphasizing the importance of safety procedures.

Four of the attendees — the moderator, one inspector, one engineer and one operator — had felt that they had been in a plantroom ammonia release situation in which they felt in danger. All four experiences occurred during maintenance procedures

when the individuals were not wearing a protective breathing apparatus. Three of the attendees were in serious situations as a result of large Freon releases. In these cases, however, none of them were aware of the high level of Freon in the room due to its relatively odorless characteristic.

Therefore, as a group, we feel it is imperative that at any time a person enters the plantroom, he or she have a bite block in their possession. Also, any time maintenance is being carried out involving opening a section of the system, an ammonia mask should be worn during the opening and kept in reach once the system is proved safe. It is important for all staff to know the significance of the ammonia levels displayed on the detection equipment and these levels should be written next to the display.

LEAKS INTO THE BRINE SYSTEM OR CONDENSER

Leaks into the brine system or condenser can be hard to detect as the ammonia readily absorbs into the water. In the event of a large leak, the water could become saturated with close to 40 percent ammonia concentration, which would be hazardous if released into a machine room or confined area. It is recommended that pH sensors be installed on the brine system and the condenser water system. A small ammonia leak would immediately be picked up by the computer control as a high pH reading.

AMMONIA WARNING EQUIPMENT

Regarding warning equipment, there must be an ammonia level display on the detector before anyone enters the plantroom. There must be a warning alarm and strobe light inside the plantroom as well.

Additional warning lights and alarms should be installed in the resurfacers room, operator's room and manager's office to provide early warning. Many facilities that have computer control systems also receive warnings on their smartphones.

Stacked warning lights that can be viewed from a distance to easily identify threat levels and indicate the presence of other gases, such as propane, are also recommended.

**IMPORTANT
AMMONIA LEVELS
TO KNOW**

25 PPM/TWA
Time Weighted Average
for an 8-Hour Exposure

35 PPM/STEL
Short Term Exposure Limit (15 minutes)

300 to 500 PPM/IDLH
Immediate Danger to Life and Health



VENTILATION

All mechanical refrigeration codes have a minimum required rate of ventilation for both normal occupancy and during ammonia releases. Note that these are minimum prescribed values and increasing above and beyond these values will make the room safer in an emergency. Examples were given where high ventilation rates in some plant rooms allowed maintenance mechanics to enter without being threatened by significant ammonia leaks. It was pointed out that there must be make-up air dampers that will allow an equal volume of fresh air to enter or a negative pressure can develop that will make opening doors difficult or impossible. It was discussed that ammonia detectors should be placed in a way that is representative of the leak in the room and not in the entering fresh air stream, which could prematurely shut off ventilation and make an unsafe condition.

It was mentioned that in colder climates preheating the incoming air would be required, so the higher flow rates should be limited to emergency fan operation during higher ammonia concentrations of 300ppm and above.

An excellent suggestion was to carry out a smoke test in the mechanical room to ensure that all working areas are provided fresh air in the event of a refrigerant release.

WHY IS AMMONIA STILL USED AS A REFRIGERANT?

There have been close to 100 refrigerants that have entered the industrial refrigeration market in the last 50 years and all of them come with their own set of problems, including increased costs, high undetected leak rates, premature compressor wear, ozone depletion, and global warming, to name a few. Most of the alternatives that have been employed over the years are extremely harmful to the environment. It was noted that all refrigerants are dangerous and there have been many fatalities because of the “safe” alternatives. It is imperative that all equipment rooms have proper leak detection and ventilation and that operators be trained on the hazards posed by the refrigerant in the system they oversee.

Some of the significant reasons why ammonia will continue to be used as a primary refrigerant are as follows:

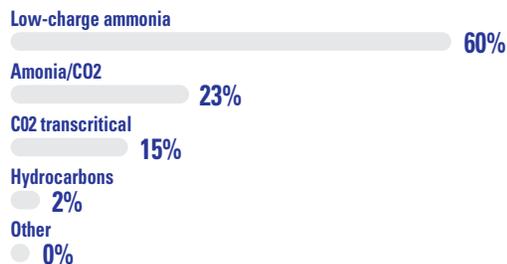
- Most efficient refrigerant
- Least expensive refrigerant
- Lowest leak-rate refrigerant
- Has zero ozone depletion
- Has zero global warming potential
- A reliable refrigerant requiring minimal instrumentation
- Only self-alarming refrigerant due to its pungent odor
- Returns to natural elements within 72 hours of being released

WHAT DIRECTION ARE PEOPLE TAKING INTERNATIONALLY?

At the 2016 Atmosphere America Convention, the majority of those polled agreed that low-charge ammonia or Ammonia/CO2 was the best choice for natural industrial refrigeration that isn't harmful to the environment.

During the 2016 Atmosphere America Convention held in Chicago in June 2016, a vote was taken to determine the best direction forward for industrial refrigeration. This annual conference is attended by industry leaders from around the world with the mandate of promoting the use of natural refrigerants that are not harmful to the environment. The consensus on the best way forward was a combined 83 percent on low-charge ammonia or ammonia/CO2.

Which technology is the future for industrial refrigeration?



CONSTRUCTION PRACTICES

It is important to keep the ammonia inside the system and to prevent leaks. In the past, many leaks came from leaking valve packings and flanges.

Seal capped valves prevent packing leaks, but it is imperative that the tools be in the room to take the caps off and to close the valves quickly.

Installing fully welded valves will reduce leaks caused by leaking flanges affected by expansion and contraction during normal operating cycles.

LIMITED-CHARGE CHILLERS

Most ammonia ice rink refrigeration plants that have been installed in North America have been a traditional shell and tube design. A shell and tube chiller can require an ammonia charge of over 700 pounds for a single ice rink. Modern flooded plate and frame and plate and shell chillers are more expensive but can reduce the ammonia charge to less than 150 pounds, and with direct expansion chillers it is even possible to reduce the ammonia charge to less than 100 pounds.

LEAK-ACTIVATED ISOLATION VALVES

Installing leak-activated isolation valves provides a high level of safety in that up to 95 percent of the refrigerant charge can be securely held inside the chiller until the situation can be investigated and rectified.

DRAINING OIL POTS

The safest way to drain an oil pot is to close the liquid feed to the pot and leave the vent line between the pot and the top of the chiller open. Let the pot sit for several days and all the liquid ammonia will evaporate out of the oil. When the oil pot reaches room temperature, close the vent and you can safely drain pure

» oil from the pot with just gas pressure above it. Make sure you wear an ammonia mask during this process.

LOW-CHARGE CONDENSERS

Most ammonia plants employ an evaporative condenser, which is a very efficient apparatus that keeps the condensing pressure down. The large tube construction can result in a condenser ammonia charge of more than 100 pounds.



Evaporative Condenser

Baltimore Aircoil Company (BAC) has developed a new Trillium Series condenser that uses microchannels in place of the large tubes, reducing the ammonia charge to approximately one-fourth of what a traditional condenser of comparative capacity can.

GLYCOL-COOLED CONDENSERS

To further reduce ammonia charges, another technique is to employ plate and frame or plate and shell condensers, rather than evaporative condensers. A plate style heat exchanger will reduce the condenser charge to less than 10 pounds of ammonia versus the evaporative condenser which holds over 100 pounds.

Installing the condenser in the compressor room close to the chiller package will reduce the high-pressure piping by 90 percent, further reducing the charge and improving system safety.

The glycol-cooled condensers can also be used to recover up to 100 percent of the heat rejected from the refrigeration system, which will eliminate the need for sub-floor and snow-melt heat exchangers along with their piping and instrumentation, resulting in less leak points.

It can sometimes be difficult to use all the waste heat within the ice complex, so there has to be a way to reject the excess heat, which is typically done with a fluid cooler.

AMMONIA DISPERSION TANKS

Ammonia dispersion tanks can be installed to contain the ammonia in the event a relief valve blows or if the emergency blow off valve must be opened. The tanks require some additional consideration such as freeze protection and calculating the release setting of the valves. Once saturated, the aqua ammonia must be safely disposed of.

PACKAGED LIMITED-CHARGED SYSTEMS



Packaged limited-charge systems, which combine both a limited-charge chiller and charge condenser along with a compressor and all the running components in a single package, are becoming quite popular. By dividing the ice plant into two or three limited charge ammonia packages, it offers many advantages. The ammonia charge

on each package is much less than 100 pounds. The compact construction with minimal piping and fittings greatly reduces the potential for leaks. The multiple chiller packages provide an elevated level of redundancy in that there are separate chillers, condensers, compressors, refrigerant and running components. Being that the limited-charged packages have fluid-cooled condensers, they are already prepared to provide 100 percent energy recovery for use in the facility.

SELF-CONTAINED OUTDOOR MACHINE ROOM

A self-contained machine room separate from the public facility prevents ammonia from entering the public space in the event of a larger leak.

It is constructed in a limited-charge format, which reduces the ammonia charge to less than 20 percent of a traditional ammonia system. It has all the safety features that are required for an indoor machine room but also offer the advantage of having full opening doors at each end for added safety and rapid egress in the event of an emergency.

A self-contained machine room also offers many added advantages. It is manufactured off-site which minimizes on-site disruptions during the construction phase, and the systems can be connected and started within two to three days of arrival.

Removing the refrigeration equipment from the ice rink frees up valuable space, which can be reallocated for other purposes, such as an extra dressing room.

OPERATOR EDUCATION

It was brought up that many locations in North America do not have mandatory or recognized operator training programs. It was also discussed that in the past there has been a disconnect between what has been taught in operator classes versus what is needed in the facility versus what was being tested for in the government examinations.

It was generally felt by all parties attending the symposium that work is needed in this area to ensure that all operators are getting the correct information that will result in safer facilities.

Every operator in a facility must:

- Know the significance of each ammonia level as displayed on the ammonia detectors.
- Develop safety procedures to isolate every part of the system, ensure that the correct valves are tagged and that operators know the location of all valves. Review the procedures on a yearly basis.
- Discern when to evacuate the building, understand the evacuation plan and be able to implement it.
- Understand which ammonia breathing apparatus is to be used during service and emergency situations.
- Realize where all the safety equipment is located, such as ammonia detectors, gas masks, eye wash stations, emergency showers and fan switch locations.
- Recognize the purpose of the emergency ammonia release

valve. (It was discussed that it is a rare occasion that would require releasing the ammonia and no one in attendance had ever done so.)

- Carry out emergency preparedness training with staff and first responders.

Several attendees mentioned that it is all too common to discover missing tools even when painted space peg boards are provided to keep them readily available. Pipe wrenches, adjustable wrenches and valve wrenches must be left in place to be accessible during emergency situations.

GOVERNMENT AGENCIES

There was discussion regarding code and code interpretation discrepancies between WorkSafe British Columbia and Technical Safety British Columbia.

It was mentioned that similar issues arise outside of British Columbia, and it would be beneficial to have all parties working toward a common goal to minimize confusion and frustration.

There have been occasions when first responders have taken charge over ammonia leak situations that could have been better handled by the on-site refrigeration contractor. It was suggested that refrigeration contractors and first responders develop a closer working relationship and undergo further training to gain critical knowledge and experience.

SUMMARY

Facilities should adhere to the following steps to improve ammonia refrigeration safety:

- Test safety controls on a regular basis.
- Test life-safety systems on a consistent schedule.
- Recognize the significance of all ammonia levels on your alarm device.
- Drain the chiller oil pot only after evaporating out all liquid ammonia.
- Install check valves on compressor oil charge valves.
- Carry bite blocks at all times while in the plant room.
- Wear an ammonia mask while servicing.
- Know how to isolate all system components.
- Consider higher ventilation rates.
- Obtain a high-volume emergency fan with 50' of flex duct.
- Install a dedicated water hose outside mechanical room.
- Install all welded fittings and valves.
- Install leak-activated isolation valves.
- Install pH sensors on chillers and condensers.
- Reduce the ammonia charge through low-charge heat exchangers.
- Contemplate installing the system outdoors.
- Conduct regular in-house refrigeration training.
- Coordinate annual training with first responders.

- Prepare a written evacuation procedure and practice it.
- Require staff and management to sign off on emergency procedures.
- Train for emergency situations.
- Know when to evacuate the facility and call for help.

GENERAL REFRIGERATION SAFETY TIPS

It is critical for all facilities to have:

- An enclosed refrigeration plant room
- Sensors to detect dangerous gas levels (ammonia, Freon, CO₂, NO₂)
- Proper leak detection and ventilation
- An emergency and evacuation plan
- Regular refrigeration safety training for operators
- An annual inspection at minimum by trained refrigeration contractor
- A strong relationship with first responders, who are trained on the arena's refrigeration system and layout

Art Sutherland is the founder and president of Accent Refrigeration Systems, which specializes in the design, manufacturing and installation of high-efficiency mechanical systems for the ice rink industry.

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Conference 2018 Serves Up Certified Skating Director Part 3

KNOWLEDGE IS TRULY power! As the ISI University (ISIU) moves forward, we are fully committed to our mission of empowering YOU, the ice industry professional to “do better.”

The working and theoretical understanding of the ISIU tool box is the best preparation to effectively tackle the ever-changing challenges of our industry. ISIU remains committed to raising the bar, while defining our industry standards.

The ISIU has recently partnered with several ISI districts to bring curriculum to their annual free manager’s and instructor’s seminars. ISIU programming has been offered in Southern California, Chicago and Washington, D.C. Special thanks to “faculty members” Rob McBride, Art Sutherland, David Santee, Robb Olexin and Liz Mangelsdorf for joining me on the road. We hope to visit other districts soon!

We are extremely excited as we prepare for the 2018 annual ISI conference in the Washington, D.C., metropolitan area and look forward to seeing everyone there! A new master conference schedule will be introduced, enabling ISIU classes to be completed prior to the general conference opening. This will minimize conflicts with required programming, giving all attendees the opportunity to maximize their conference experience. All attendees are still encouraged to attend and audit the ISIU courses. Please plan to take advantage of this great opportunity!

Certified Skating Director (CSD) Part 3, a module of nine classes, debuts at this year’s conference. Part 3, along with Parts 1, 2 and the Advanced Certified Skating Director (ACSD) modules, will make this program a full 27-class track, carrying

the full CSD distinction, comparable to the Certified Arena Manager (CAM), Certified Arena Operator (CAO), and Certified Arena Programmer (CAP) tracks.

This third and final cluster of CSD classes has been designed with not only the skating director but also the individual professional skating coach in mind. Coaches are strongly encouraged to take advantage of this educational opportunity, regardless of their aspirations of joining the management team. Directors will feel empowered to share the valuable tools they learn in these classes with their staff, to promote their individual businesses and in turn grow their skating schools.

The nine classes that comprise CSD Part 3 are as follows, and as always, they can be completed in any order:

- **Effective Communications:** This course will cover professional verbal, written and electronic communications. Learn how to guarantee your intended message is clear and effective.
- **Personal Branding:** Everything and everyone has their own unique brand, whether it be an arena, skating school, program, coach or skater. This course will help you identify, develop and market your special skillset.
- **The Business of Coaching:** Every coach is a business. This class is for directors, as well as individuals. Best practices for scheduling, accounting, record keeping, professional memberships and continuing education will be discussed.
- **Coaching Policies:** Princes can turn into frogs when expectations

are unclear. This session will outline how to create a successful, working coaching team by establishing and implementing a system of policies and procedures.

- **Conflict Resolution:** We do everything we can, yet the inevitable still happens. Learn how to resolve conflicts to create positive outcomes.
- **Arena Operations Overview – Working with the Back of the House:** By understanding the processes required to provide that perfect ice sheet, the skating school can work in partnership with the arena operations department.
- **Technical Teaching & Skater Training Best Practices:** As much as our sport is changing, successful coaches all share the same basic recipes for success. Jump and spin techniques, ice drawing and off-ice training will be discussed.
- **Program Creation Lab:** This activity-based course will take you through the steps to design and implement a sample program. Topics include arena scheduling, feasibility, staffing, growth potential, costs and projected returns.
- **Demystifying Hockey:** This session will identify and define opportunities that exist for the skating school, as well as individual coaches, by crafting programming to support and enhance the arena’s hockey programming.

As we continue to update and revise ISIU materials, we will add more activity and lab-based classroom work. This will enable student groups to work together in class to present resolutions to mock situations.

The peak of the Olympic cycle this year will translate into more entry-level activity in our arenas. Our challenge continues to be retaining and subsequently converting these skaters into loyal customers. The answer lies in a strategic customer service plan, designed to give every patron who walks through our doors a perception of added value during their experience. (Look for a series of customer service articles in future issues of ISI EDGE.)

Statistically, this spike in attendance can also translate into an increase in litigation. The Certified Executive Arena (CAE) class at the 2018 conference, led by Corey Cash and Dan Foster of Safehold Insurance, will cover how to be best prepared to navigate the entire process, through depositions and settlement.

A comprehensive final exam is now required for the completion and

certification of each of the CAM, CAO, CAP and CSD tracks. The exam, based on problem-solving involving material covered in the three modules, will only be offered at the ISI national conferences. Individuals who have completed an entire track (all three modules) prior to Sept. 1, 2017, will be grandfathered in and exempt from the final exam. Candidates who register for a third module of any of the four tracks will be contacted regarding the scheduling of the final exam.

ISIU at NEISMA

ISIU will once again collaborate with the North East Ice Rink Manager’s Association (NEISMA) to offer CAO, Part 3, presented by Art Sutherland, at the Spring 2018 NEISMA Conference, April 22-26 in Lake Placid, N.Y. This is a great opportunity to



obtain ISIU credits and is also open to NEISMA non-members.

A CAE class on Planning and Designing an Arena Retrofit will also be offered. As our facilities age and technology streams ahead, change is always imminent. This executive-level course will empower arena management with the methodology to both long- and short-term plans for all types of renovations from a single project to a complete building overhaul. Advances in refrigeration, lighting, energy generation and storage, as well as control systems, will be discussed, along with the payback, longevity and the financial implications of each installation.

A five-hour introduction to the CSD certification class will also be offered.

For more information on ISI University, please contact me at LAFedick@gmail.com, or visit skateisi.org. 

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Situated in historic Alexandria, Va., in a serene lakeside setting alongside a 43-acre botanical preserve, the Hilton Alexandria Mark Center is just minutes from Washington D.C. and the Pentagon. Centrally located, it's within 15 minutes of the White House, U.S. Capitol, Arlington National Cemetery and the Smithsonian museums. The quaint, waterfront galleries and shops in Old Town, Alexandria, are a mere 4 miles away.

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- Shuttle



2018 Ice Sports Industry
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A-LIST ATTRACTIONS IN DC AREA

Alexandria

DC'S ORIGINAL 'OLD TOWN'

King Street

Stroll Old Town's main street, bursting with almost 200 independent shops and recently named "one of the best Indie boutique scenes on the East Coast." You can hop on a free trolley that runs from one end to the other. See Visitalexandriava.com

George Washington's Mount Vernon Home

Explore the first president's picturesque, riverfront estate, with working farm and visitor facilities — just 8 miles south of Old Town. Visit mountvernon.org

Torpedo Factory Art Center

Browse the nation's largest collection of working-artists' open studios situated in a former World War II munitions plant along the banks of the Potomac River. Visit torpedofactory.org

Museums on Market Square

View the historic collections at three museums situated on the quaint square in front of Alexandria City Hall: Gadsbys Tavern Museum, Carlyle House and Stabler-Leadbeater Apothecary Museum. See visitalexandriava.com

Helpful Websites

Visitalexandriava.com
Virginia.org



Washington DC

THE NATION'S CAPITAL

National Monuments and Memorials

Walking the two-mile National Mall is the best way to visit most of the monuments: Washington Monument, Lincoln Memorial, Thomas Jefferson Memorial, Vietnam Veterans Memorial, World War II Memorial, Martin Luther King, Jr. Memorial, Korean War Veterans Memorial, Franklin Delano Roosevelt Memorial and DC War Memorial.

White House

Self-guided tours of the White House are free but require advance planning. Requests must be submitted through your congressional representative at least 21 days in advance — the earlier the better. The White House Visitor Center offers exhibits and a 30-minute video. Visit whitehouse.gov

U.S. Capitol

The Capitol Visitor Center, featuring an exhibition gallery, theaters, cafeteria and gift shops, is open to the public. To explore the historical areas of the Capitol, you must participate in a guided tour. For information on reserving free tickets, go to visitthecapitol.gov

U.S. Supreme Court

Visitors may tour public areas of the building on their own and enjoy a variety of educational exhibitions, lectures and programs. Court sessions are also available to the public on a first-come, first served basis. Visit supremecourt.gov

John F. Kennedy Center for the Performing Arts

A living memorial to the late President John F. Kennedy, the center offers both a free tour and evening performance daily. Check the venue's scheduled June performances in advance. Visit kennedy-center.org

Washington National Cathedral

Sixth largest cathedral in the world, its gothic architecture, stain-glass windows and medieval-style garden induces jaw-dropping "oohs and ahhs." Visit cathedral.org



Arlington National Cemetery

Final resting place for many of our country's greatest heroes and former presidents, the cemetery offers tours and welcomes visitors to walk the grounds. Be sure to witness the changing of the guard at the Tomb of the Unknown Soldier. Visit arlingtoncemetery.mil

Smithsonian Museums

Nineteen museums, plus the National Zoo! Lucky for visitors, they're all free and near Metro stops. Visit si.edu/museums

Library of Congress

The world's largest library welcomes visitors to a mesmerizing world of history and breathtaking architecture and art. Free guided public tours of the Thomas Jefferson Building are offered. Guided tours are available to larger groups only with advanced reservations. Visit loc.gov

National Archives

A history buff's playground, the awe-inspiring National Archives houses America's most important documents, including the original Declaration of Independence, Constitution and Bill of Rights. Visit archives.gov

Helpful Websites

Washington.org
Thedistrict.com



	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon	1 p.m.	2 p.m.	3 p.m.
TUESDAY - JUNE 5		ORIENTATION/ROLE OF ARENA MANAGER ORIENTATION/ROLE OF ARENA OPERATOR ORIENTATION/ROLE OF THE ARENA PROGRAMMER THE BUSINESS OF COACHING	FINANCIAL MANAGEMENT - ACCOUNTING FINANCIAL MANAGEMENT - BUDGETING ELECTRONIC MARKETING CONFLICT RESOLUTION	FINANCIAL MANAGEMENT BUDGETING CUSTOMER SERVICE & RETENTION MANAGING PUBLIC SESSIONS COACHING POLICIES	LUNCH FOR ISI UNIVERSITY STUDENTS & FACULTY		CONTRACT ADMINISTRATION COMPUTERS & TECHNOLOGY WORKING WITH VOLUNTEERS EFFECTIVE COMMUNICATIONS	LEADERSHIP & PERSONAL IMAG CUSTODIAL & HOUSE KEEPING PROGRAMS FOR COMMUNITIES & SCH PERSONAL BRAND
WEDNESDAY - JUNE 6	ARENA SCHEDULING RISK MANAGEMENT SUMMER SKATING ACTIVITIES DEMYSTIFYING HOCKEY NUTRITION FOR ATHLETES HVAC/DEHUMIDIFICATION MAINTENANCE	RISK MANAGEMENT ENERGY MANAGEMENT ELITE PROGRAMS PROGRAM CREATION LAB INNOVATIVE TECHNOLOGY FOR COACHES IMPORTANCE OF BUILDING A TEAM IN YOUR FACILITY	SECTION MEETINGS	DISTRICT MEETINGS	LUNCH & CONFERENCE OPENING		ROUNDTABLES <ul style="list-style-type: none"> Newcomers Information 2018 ISI Rules & Revisions How to Bid for ISI National Events Creative Programming – Think Outside the Box Arena Renovations – In House vs. Associations Hockey Leagues – In House vs. Associations ISI University Q&A How to Run a Successful ISI Testing Program 	CAM STUDY SESSION/E CAO STUDY SESSION/E CAP STUDY SESSION/E CSD STUDY SESSION/E DEALING PARE LAB: HAN JUDGING TABL KEEP YOU ACCOUNTA PROPER T REFRIGERA PEAK PER
THURSDAY - JUNE 7	 TRAINING ON EDGE SOFTWARE & ENTRY EEZE "SCHOOL OF DAVE" MANAGING A PRO SHOP FUTURE OF THE ICE ARENA INDUSTRY - PANEL DISCUSSION CAE COURSE <i>"Accidents happen, learn what you need to know to successfully navigate the litigation process"</i> <i>A Certified Arena Executive (CAE) class presented by the ISI University. Advance registration & additional fee required.</i>	JUDGING WORKSHOP SPORTS PSYCHOLOGY - IMPORTANCE OF KEEPING YOUR ATHLETE MENTALLY FIT CONCESSION SALES IN YOUR FACILITY MARKETING & ADVERTISING YOUR PROGRAMS	A DAY IN THE LIFE OF A REFEREE INJURY PREVENTION & MORE PRODUCTIVE TRAINING INDOOR AIR QUALITY HOW TO MOTIVATE PART-TIME STAFF	ISI ANNUAL AWARDS LUNCHEON		HOW TO BUILD & MANAGE YOUR ISI CLUB/RINK TEAM SYNCHRO, THEATRE ON ICE, AND INTERCOLLEGIATE TEAMS HOW TO PERFORM EVALUATION OF YOUR OPERATIONS ICE MAINTENANCE TIPS & TRICKS NATIONAL INSTRUCTOR TR <i>Advance</i>		
FRIDAY - JUNE 8	ICE RINK DAY							
	ISI DANCE STEPS 8:30 - 9:45 a.m.	SYNCHRO/ICE DANCING 9:45 - 11 a.m.	CHOREOGRAPHY & EDGES 11 a.m. - noon	BASIC DASHER MAINTENANCE 11 a.m. - noon	Lunch Break Noon - 12:30 p.m.	ON-ICE JUMPS & SPINS 12:30 - 2:30 p.m.	Lunch Break 1 - 1:30 p.m.	ICE INSTALLATION & MAINTENANCE EXAM 1:30 - 2:30 p.m.
	ICE PAINTING 8:30 - 10 a.m.	ICE MAINTENANCE TECHNIQUES 10 - 11 a.m.	RESURFACER MAINTENANCE FOR OPTIMUM ICE Noon - 1 p.m.					

Registration and attendance at all ISI University sessions is required to take exam and receive certification; however, individual sessions are open to all conference attendees. All tracks are divided into three parts, each requiring three years to complete. At the end of completing all three parts, students must take and pass a written exam to claim the track designation in its entirety. (All students finishing a track prior to September 1, 2017 are grandfathered in.) Students may start with any of the three parts and complete them in any order.

BEST PLACES FOR SIPS, SNACKS & NOSH

Society Fair –
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Alexandria, Va., resident **Andrea Viglione**, a passionate cook and “foodie” at heart, gives us the “skinny” on the best places to savor the cuisine that put the D.C. metro area at the top of the food-mecca list. Her top picks are as follows:

Old Town Alexandria, Virginia

Grape + Bean
118 S. Royal St.
703-664-0214

Enjoy lovely wines and a terrific assortment of cheese and charcuterie, crostini and other noshes at Grape + Bean, a small gem of a wine shop, wine bar and boutique coffee spot. Visit grapeandbean.com

Society Fair
277 S. Washington St.
703-683-3247

A wine bar, bistro, demo-kitchen, coffee and gourmet market all in one, Society Fair is a fun stop for all things delectable. Visit societyfair.net

Hummingbird
220 S. Union St.
703-566-1355

Located within Hotel Indigo on Alexandria’s historic waterfront, Hummingbird’s menu follows “the rhythm of the seasons” and features locally-sourced, coastal favorites. Visit hummingbirdva.net

Landini Brothers
115 King St.
703-836-8404

A favorite destination in Alexandria, Landini Brothers has been serving visitors their traditional, Northern Italian dishes since 1979. Visit landinibrothers.com

Hen Quarter
801 King St.
703-684-8969

Offering Southern cooking showcased in a warm and fun environment, Hen Quarter supports local artisan food producers. It serves up great bourbon drinks and chicken

fried cracklings to die for! Visit henquarter.com

Sunday in Saigon
682 N St. Asaph St.
703-549-7777

“Sunday in Saigon combines Vietnam’s rich regional diversity with the modern atmosphere of Saigon.” Its inventive cocktails and creative menu filled with delicious Vietnamese dishes make it a noteworthy choice. Visit sundayinsaiagon.com

Eamonn’s A Dublin Chipper
728 King St.
703-299-8334

A true Irish “chipper” (slang for a traditional fish and chip joint), Eamonn’s serves scrumptious seafood. Be sure to visit the intimate, speakeasy-style Bar PX upstairs — just look for the blue light outside! Visit eamonnisdublinchipper.com and barpx.com

RedRocks Neapolitan Bistro
904 King St.
703-717-9873

RedRocks, an award-winning, upscale pizzeria, offers wood-fired, Neapolitan-style pizza, along with other creative, Italian dishes; numerous craft beers; and of course, Italian wine. Visit redrocksoldtown.com

Arlington, Virginia

Kapnos Taverna
4000 Wilson Blvd.
703-243-4400

Celebrity Chef Mike Isabella’s Kapnos Taverna features classic and coastal-inspired selections as well as more modern mainland dishes. You’ll find delicious roasted pork and lamb,

grilled octopus, spanakopita, fish crudo and much more! Visit kapnostaverna.com

Ambar Clarendon
2901 Wilson Blvd.
703-875-9663

Ambar Clarendon delivers an authentic traditional Balkan experience, with delightful small and large plate offerings, such as almond-crusted chicken, grilled calamari, roasted eggplant spread and more. Following your meal, relax at BABA, the coffee and cocktail bar and lounge located downstairs. Visit ambarrestaurant.com and baba.bar

Mussel Bar & Grille
800 North Glebe Rd.
703-841-2337

Mussel Bar & Grille showcases a wide range of casual dining fare, including grilled and wood-fired dishes of meats and fish, pizzas, seasonal salads and soups, and crafted desserts. Also features an extensive Belgian beer menu. Visit musselbar.com

Washington, D.C.

The District Wharf
1100 Maine Ave. SW
202-314-5759

The newly opened and stunning attraction along the D.C.’s Southwest Waterfront, The District Wharf is the hot spot for live music, celebrity chef restaurants, gorgeous views and just plain all-around fun! Visit wharfdc.com

Le Diplomate
1601 14th St. NW
202-332-3333

A classic French bistro brought to you by James Beard Award-winning

restaurateur Stephen Starr, the Le Diplomate’s extensive menu highlights a variety of classic favorites and contemporary creations. The crusty baguettes are made in-house and pair nicely with their delicious assortment of regional French cheeses. Visit lediplomatedc.com

Del Campo
777 I St. NW
202-289-7377

Situated in the Chinatown neighborhood of D.C., Del Campo is an upscale South American grill paying homage to the chef/owner’s Latin American roots. Various flavorful steaks and slow-roasted meats are the backbone of the menu. The fabulous cocktail menu includes “smoking hot” drinks — literally. Visit delcampodc.com

Old Ebbitt Grill
675 15th St. NW
202-347-4800

Nothing says old D.C. like the historic Old Ebbitt Grill, established in 1856. The oldest operating saloon in D.C., Old Ebbitt Grill is just steps from The White House and showcases upscale, classic American fare. Grab a drink and oysters at one of the several wood-paneled bars and feel like a D.C. insider from the moment you enter the door. Visit ebbittdc.com

Pearl Dive Oyster Palace
1612 14th St. NW
202-319-1612

While you’ll find fresh oysters from all over the country at Pearl Dive Oyster Palace, it’s well known for its bivalves from the treasured Chesapeake Bay. It also offers a full menu of seafood dishes that won’t disappoint. Visit pearldivedc.com

Boqueria
1837 M St. NW
202-558-9545

Boqueria, a Spanish Tapas restaurant, is located off the hustle and bustle of the infamous K Street action. Their fish dishes, cured and roasted meats, and vegetables embody the savored flavors of Spain. Don’t forget to raise a glass of sangria! Visit boqueriadc.com

Georgetown Waterfront (Washington Harbour)

Tony and Joe’s Seafood Palace
3000 K St. NW
202-944-4545

Tony and Joe’s is the number-one spot along the Washington Harbour for enjoying magnificent scenery while enjoying cocktails, seafood and steak. Visit tonyandjoes.com

Farmers Fishers Bakers
3000 K Street NW
202-298-8783

As part of the Farmers Restaurant Group, Farmers Fishers Bakers crafts all dishes and drinks from scratch. Open for breakfast, lunch and dinner. Visit farmersfishsbakers.com

Fiola Mare
3050 K St. NW
202-628-0065

Rub elbows with local and national celebrities and politicians alike at the luxurious Fiola Mare, which evokes the seaside dining experience found along the Italian and Mediterranean coasts. Visit fiolamaredc.com

◀ **Eamonn’s A Dublin Chipper — a true Irish fish and chip joint.**

◀ **Hummingbird – Hotel Indigo’s waterfront restaurant in Alexandria, Va.**

Andrea Viglione has worked in the hospitality industry in the D.C. metro area for 20 years. She has worked in almost every aspect of the restaurant industry — from bartender at a local pub and manager/sommelier for a four-star restaurant to wine buyer and course instructor for a popular wine shop and bar. She and her husband, Dan, are “food passionate” and their favorite hobby is to keep up with all the new food and beverage destinations popping up all over the D.C. metro area, which, lucky for them, includes cuisine from every region of the world!



CONFERENCE ATTENDEE REGISTRATION & FEES

Full registration includes all presentations, awards luncheon, trade show and evening "mixer." Daily registration includes presentations and activities for that day only.

PROF/ADMIN MEMBER

Full Registration

Advance Deadline: April 15*	\$500
Standard Deadline: After April 15	\$550
Friday Only (At Ice Rink): June 8	\$149

Daily Registration

Wednesday/Thursday: June 6-7	\$225/day
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NON-MEMBER

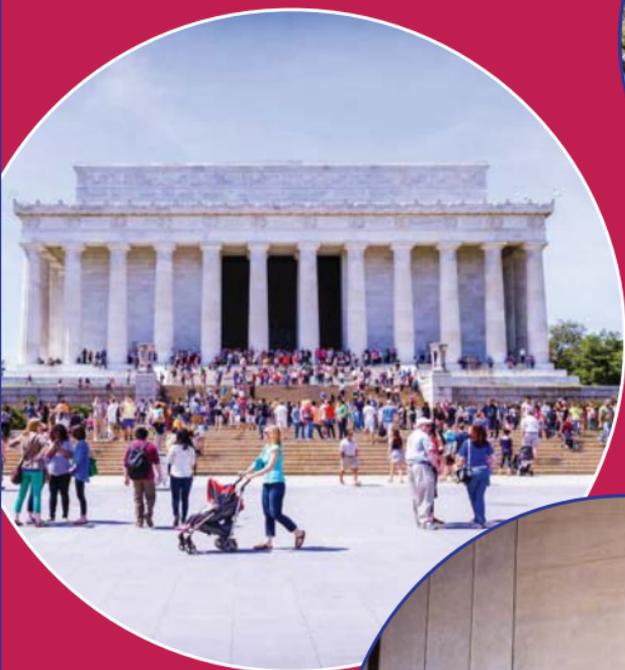
Full Registration

Advance Deadline: April 15*	\$600
Standard Deadline: After April 15	\$650
Friday Only (At Ice Rink): June 8	\$249

Daily Registration

Wednesday/Thursday: June 6-7	\$325/day
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** Registration must be postmarked by the deadline date to receive Advance rate.*





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NEW FOR 2018!

- The ISI University (ISIU) schedule enables students to complete coursework prior to the conference opening, allowing them to benefit from the majority of general sessions.
- Launch of Certified Skating Director (CSD) Part 3, consisting of nine classes. Parts 1, 2 and 3 now comprise a 27-class track, carrying the full CSD distinction.

(For more information, please see page 16 of this issue of ISI EDGE.)

▶ ISI University Courses & Fees

Certified Arena Manager, Part 1 (CAM1)

Certified Arena Programmer, Part 2 (CAP2)

Certified Arena Operator, Part 2 (CA02)

Certified Skating Director, Part 3 (CSD3) **NEW**

\$35 each before April 15

\$60 each after April 15

ISI University Certified Arena Executive (CAE) Class

"Accidents Happen — Learn What You Need to Know to Successfully Navigate the Litigation Process"

\$50 before April 15

\$100 after April 15

▶ ISI National Instructor Training

Core/Intermediate Level Combo (Tots –FS5)

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**Why House-
League Hockey
is a Sure Bet**



by Jordan Mann

ON JAN. 1, 2018, the New York Rangers celebrated the new year by edging out the Buffalo Sabres 3-2 in overtime. This was the 10th annual Winter Classic, and it was another high-profile, outdoor hockey event that did not leave any NHL fans disappointed.

Due in part to outreach efforts like the Winter Classic, ice hockey is now more prominent in the American sports landscape than ever before. The sport has always been popular in parts of the United States, but recently the number of players in non-traditional markets has exploded. As hockey reaches a greater number of families in more areas of the country, the demand for a wide range of hockey programming is skyrocketing.

Like most youth sports, hockey is frequently a race to the finish line. The market is dominated by travel hockey programs offering families elite experiences, with games played in high-level leagues and promises of player development and upward mobility — all for a lot of money! An elitist mentality

pervades, and travel clubs get preoccupied with building championship teams.

Kids are finding it increasingly difficult to just get out on the ice and play for fun. The void in the recreational sector of the sport is noticeable, and many managers are starting to tap into that market. Developing and administering a successful in-house hockey program is akin to stacking the deck in your arena's favor!

ISI House-League Hockey

House-league hockey programs are a perfect extension of the ISI's "participation, not elimination" mantra.

While accommodating players, evening out teams and registering participants can be a challenging task, ISI offers a simple registration process for house-league teams. (*Please see "ISI's Hockey Team Registration Process — It's a Snap!" on page 25.*)

ISI Administrative members (facilities and teams) can register their league teams by jerseys rather than individual players.

ISI Administrative members (facilities and teams) can register their league teams by jerseys rather than individual players. This allows hockey directors the flexibility to add, remove or adjust players as needed during the season.

This allows hockey directors the flexibility to add, remove or adjust players as needed during the season. This practice goes a long way toward ensuring that the arena's on-ice product is flawless and that customers leave satisfied and excited to re-enroll. Also, the cost is exceptionally low (based on the number of players), and the insurance coverage is equally as comprehensive. For instance, adult teams start as low as \$425, for an average cost of \$28.33 per player.

"House league provides an opportunity for all levels of hockey players to learn the game," says Sean Flynn, facility manager of Centennial Ice Arena in Wilmette, Ill. Flynn, an ISI University Certified Arena Executive, should know. After playing at the professional level during his hockey career, he now coaches his son's house league team. "You cannot just jump into travel hockey. It is important to start somewhere, and a well-run house program can often rival a travel program," he says.

ISI Treasurer Kevin McCormack agrees. As vice president of operations at Floyd Hall Arena in Little Falls, N.J., McCormack, an ISI University Certified Arena Operator (CAO), administers one of the largest ISI house-league programs in the country. "The cost [of a house-league program] is obviously less which can be a big selling point considering the costs of other parts of hockey like equipment,



Remember, house league is not about wins and losses but about the family experience. Competitive and fun games will lead to many more returning players and a larger revenue base for the facility.

camps and lessons,” he says. “In addition, a house-league program will primarily play at one facility and usually have better ice times than the travel programs. The convenience factor is so important.”

This extension of an arena’s programming can mean great things for a facility’s bottom line. By including rather than excluding players, revenue increases can be dramatic. “We always find places for players whether they are just starting out or have been playing for years,” says Scott Ross, hockey director of the Renegades house-league program in Rolling Meadows, Ill. The Renegades are one of the largest house programs in Illinois, with 450 players spread across 33 teams.

Running house-league programs through the facility (instead of outsourcing to hockey clubs) can also help managers design efficient ice schedules. “We have control over filling in the gaps between ice rentals, and we are able to easily adjust our schedules to make sure the ice is always busy,” says Ross.

“Travel teams often have one team on the ice for practice but our house league almost always has two,” adds McCormack. This maximizes the number of players on the ice, thus reducing expenses. In addition, ice rentals pay out per hour, while arena programs pay out per participant. “All of the players on the ice are paying the arena for games and practices. For travel hockey, that is not the case.”

Pointers for Success

So, what does it take to run a successful league? Stay focused on the big picture. “It is up to the professional, the hockey director, to make sure teams are fair and balanced so that the house league stays competitive,” says Flynn.

“The biggest mistake I see hockey directors make is they do not cater to every player evenly,” says Ross. “In house-league programs, you will have players that are more talented and players that are less

talented. Some hockey directors will pay attention to the more talented players and not worry about the players with less skill. As a hockey director, you have to make sure everyone is taken care of.”

Keeping teams even and ice schedules organized requires that every staff member understand the objectives of the league. Communication is key, according to McCormack, who advises managers to talk with staff members and volunteers regarding league standards, expectations, schedules and changes. Remember, house league is not about wins and losses but about the family experience. Competitive and fun games will lead to many more returning players and a larger revenue base for the facility.

The lynchpin of the model is a transitional plan for players looking to move on to the next level.

“It is important to have a way for house-league players to transition to travel,” say McCormack. “Have a relationship with your travel program so that you will suggest and promote some players to travel each year.”

Once the relationship is in place, then clever programs can help carve out a niche for a feeder system to local travel clubs. This pipeline can help drive business into the house league and keep travel clubs from trying to recruit house players. It is up to the director to ensure that there is transparency in the program — and that players are being honestly evaluated and placed at the proper level.

With an established infrastructure, the sky is the limit. House-league programs can offer skill clinics, day camps, 3-on-3 tournaments, or anything else imaginable. House leagues are not limited to youth levels either, and in fact adult recreation and developmental leagues are among the fastest growing demographic in the country.

As spring comes around, bringing with it preparations for a new season, why not

ISI’S HOCKEY TEAM REGISTRATION PROCESS — IT’S A SNAP!

How to get started:

1. Visit skateisi.org/hockeyteams
2. Scroll Down to Hockey Team Registration Info for Arena Members.
3. Click on Hockey Team Registration Form and Complete.
4. Fill out either the Hockey Team Bulk Registration Form or the regular Hockey Team Registration list.
5. Fax form to 972-735-8815 or email to: Jeff@skateisi.org

Note: All players must sign the waiver form online. You don’t need to send them to the ISI, but you must keep them on file at your office. We’ve also included a sample incident report and claims procedures online in case needed.

take a chance and add a house hockey league to your programming schedule if you haven’t already done so? It’s a sure bet for growing the sport, your facility’s revenue and the industry overall.

For more information on building your ISI Hockey Program, please visit skateisi.org/hockeyteams or contact the ISI office at 972-735-8800.



Jordan Mann is the hockey supervisor at Oakton Ice Arena in Park Ridge, Ill. He is ranked and rated through PSA with a Level 4 hockey

certification. He is also a USA Hockey Level 5 (master) coach and US Speedskating Level 2 (national level) coach. A two-time Junior National medalist in figure skating, he is the owner of Jordan Mann Skating, offering power skating clinics to hockey players. A frequent ISI conference presenter, he holds ISI University designations of Certified Arena Manager (CAM), Certified Arena Operator (CAO), Certified Arena Programmer (CAP), Certified Skating Director (CSD) and Advanced Certified Skating Director (ACSD).



ISIA EDUCATION FOUNDATION

ROBYN L. BENTLEY-GRAHAM, CAE *ISIA Education Foundation Secretary*

Support the Foundation While Shopping Amazon

RINK PROFESSIONALS, YOU might ask: How can I add value to my skaters' membership with ISI without investing too much of my limited time or money? Well, take a look at the ISIA Education Foundation (skateisi.org/foundation), which provides educational support to ISI skaters.



New this year, the foundation has established an AmazonSmile account. Now, anyone with an Amazon account can support the foundation with their regular Amazon purchases, at no extra cost. How? Shoppers simply visit smile.amazon.com and select the ISIA Education Foundation as their charity of choice. Amazon will then donate .05 percent of their total purchase price to the foundation. The site operates exactly the same as Amazon.com; there are no differences in pricing, products, Prime shipping, etc.

Note that while the deadline for submitting scholarship applications for the 2018-19 school year was Feb. 1, it's not too early for skaters to start thinking about applying for the following year. Please tell your skaters to review the criteria on the website. Encourage high school students to not only take a look and apply but also to get their volunteer hours in. Skaters have the opportunity to do their volunteer service hours at national events. The volunteer service hours not only benefit the skaters but also the facilities and programs that they work with.

Thanks to those who kicked off our AmazonSmile donations during the 2017 holiday shopping season! Please help us spread the word about this simple and fantastic way to benefit our skaters.

2018 FUNdraisers

The 2018-19 scholarship winners will be announced this spring at the 2018 annual ISI Conference & Trade Show in Alexandria, Va. We will host several auctions at the event to help fund future scholarships. The scholarship committee is looking to increase the scholarship amount in the future, but we can only do that if we receive funding.

This year's live auction item is an ice resurfacers dog house, and our silent auction will feature some great skating- and non-skating related items. We will also feature a silent auction for skaters and their families at the ISIA Education Foundation booth at the 2018 Conference Championships at Piney Orchard Ice Arena in Odenton, Md. Our new auction co-chairs, Christine Wilson-Brinton and Samantha Bentley, welcome your support.

The ISIA Education Foundation Board of Trustees will officially welcome two new members, Jim Becker and Art Sutherland, to the board at our spring meeting. Both Jim and Art have been foundation supporters in the past, and we are excited to have them on board as trustees.

Stay tuned for announcements on additional 2018 FUNdraisers and in the meantime, please remember that tax-deductible donations to the foundation are welcome at any time. Donations and pledges make meaningful honorary

or memorial gifts and at the same time support the scholarship program for outstanding ISI members. Without your continued support, the scholarship program would not be possible.



The doggone lucky winner of the ISIA Education Foundation's live auction at the 2018 ISI Conference & Trade Show will go home with this unique ice resurfacers dog house.

If interested in donating a silent auction item, please contact us via email: isiaef@skateisi.org. Thank you for your support! 



The ISIA Education Foundation has Internal Revenue Service 501(c)(3) status as a public, non-profit organization and is registered with the Illinois Secretary of State as a not-for-profit corporation.



ALYSSA FORT TO PRESENT AT ISI CONFERENCE

Alyssa Fort will present two sessions at the 2018 ISI Conference & Trade Show:

“Nutrition for Athletes”
8-9 a.m. Wednesday, June 6

“Injury Prevention & More Productive Training”
11-11:45 a.m. Thursday, June 7

Teach Skaters the Importance of Proper Warm Up

by Alyssa Fort

As an off-ice coach and personal trainer, my job is to ensure skaters know how to properly warm up before getting on the ice. A dynamic warm up should be done at all levels, from beginner tots to more advanced freestyle.

Many coaches are not teaching their skaters how to properly warm up, and this is a definite disadvantage to the skater and their performance.

Proper Warm Up

A coach should always stress a proper dynamic warm up. A dynamic warm up promotes circulation, elevates the body's temperature, helps the brain's neuro-receptors start firing so that the skater has a better sense of body awareness, and helps the body to rehearse the proper moves for the upcoming workout. A correct warm up should entail moving the body in all directions and involve many muscles and joints in order to prevent injury. It should start off with a light movement, such as a light jog or jump roping, and progress to more challenging

movements. To be effective, the warm up should last for at least 10 minutes.

Teaching skaters to warm up should begin at the tots level. A routine should be established from day one in order for it to become a habit. Asking a director to incorporate an off-ice warm up (even for just five minutes) into their programs will make certain that skaters are taught correctly from the beginning. If that is not feasible, perhaps talking to the skaters and parents on the first day of class about the benefits of warming up will be helpful. Following the discussion, distribute an example sheet that they can reference. Many skaters do not do a warm up simply

because they have no idea how to! Giving them something tangible to hold and look at is beneficial.

Coaches should always let the parents know that the skater is expected to arrive at least 15 to 20 minutes prior to class to assure a proper warm up. Giving a specific schedule to the parents and skater helps them to better plan their time at the rink. Teach your skater that the warm-up does not have to be boring. Incorporate a jump rope into the warm up routine — it is cheap and easy to store in a skate bag — or suggest your skaters pair up with a friend to warm-up. Partnering with a friend will hold skaters accountable, make the time pass a little more quickly and double the fun!

Warm-Up Class

Another great idea is to offer an off-ice warm-up class at the rink. Gear it toward the level of the skater, such as a balance class for beginners or a core and stretch class for the higher level skater. Many



Photos by Tiesha DiMaggio

coaches want their students to do off-ice training at home or take classes that will benefit their abilities on the ice, but the skaters do not always follow through, sometimes due to busy schedules.

Providing an opportunity for off-ice, warm-up training at the rink helps skaters incorporate it into their skating day. Also, offering classes at convenient times (for example, before a freestyle session for high-level skaters) will help bring skaters to the rink. Arenas may want to bundle skating packages based on programming for learn-to-skate or freestyle ice. Also, offering discounts is a great way to appeal

to the parents and to get your skaters to take classes.

Coaches should be properly trained on how to teach their skaters to warm up. Encourage coaches to become certified as a personal trainer or hold another certification that can be beneficial for instructing warm ups for skaters.

There are many different ways to instruct coaches how to properly teach a warm up. For instance, a personal trainer can be hired to teach coaches proper techniques and to provide warm-up ideas. Coaches can also attend seminars that provide off-ice instruction by trained individuals that

can show how to use proper technique for the skater. Reading studies on warming up and keeping up-to-date on information is crucial for a coach. There are many online courses as well.



Alyssa Fort is an ACE certified personal trainer and coach at RoseGarden Ice Arena in Norwich, Conn. She holds a bachelor's degree in nutrition science from Kaplan University.



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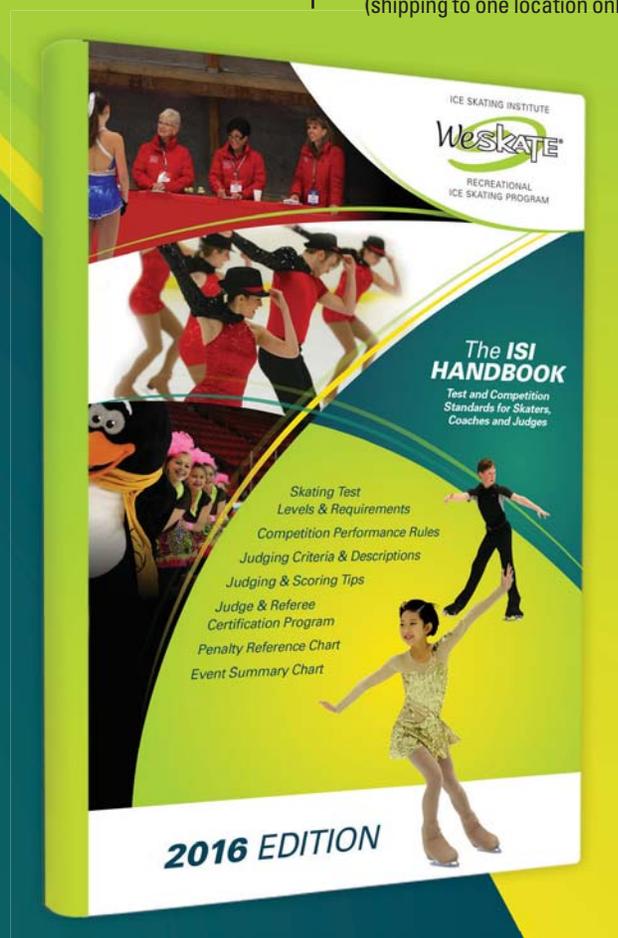
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The ISI Handbook, 2016 Edition is the only comprehensive resource for:

- ISI test level requirements
- ISI program information
- Competition events and performance rules
- Judging (including penalty reference chart and quick reference for duration)

The 2016 edition includes the latest rule revisions and new competition events, and provides a wealth of information, standards and resources for learning, teaching and judging the ISI Recreational Skating Program.

To order, visit skateisi.org/handbook.



Available
While Supplies Last



Kim Hansen
Skating Programs &
National Events Director

COACHES' CORNER



ISI Theatrical Challenge offers skaters the chance to experience the thrill of being in the spotlights!

ISI THEATRICAL CHALLENGE DEBUTS IN OCTOBER

THOSE OF YOU who are fortunate enough to have had show experience, either as an amateur club member or as a professional skater, know the thrill of stepping out onto the ice from behind a curtain with full spotlights and all eyes on you.

Now, with the introduction of ISI's first national competition on show ice with full theatrical lighting, your skaters have the opportunity to experience this same excitement firsthand. The ISI Theatrical Challenge will take place Oct. 5-7 at the historic Ice Chalet in Knoxville, Tenn.

This 50-plus year ISI-member rink is uniquely qualified to host the event, because it boasts a set of traditional can lights as well as multiple rows of modern computer controlled LED lights. In addition, the rink's staff and volunteers have been putting on shows for the

community for years and just this past December, presented their 30th annual "Nutcracker on Ice."

Ice Chalet has also been the host of the ProSkaters Performance Camp and Auditions since 2013. This is a remarkable event in which skaters from across the country are offered an educational and networking opportunity within the show skating community. They not only receive valuable feedback from the many show producers in attendance but they also audition for potential roles. The experience of hosting this prestigious event annually has the rink fine-tuned and ready to share its love of the ice show arts with all of you!

Our competition will be limited to non-technical events, such as Artistic, Ensemble, Footwork, Kaleidoskate, Pattern, Rhythmic, Spotlights (both

solo and couples) and Small Production. The ice will be configured into a three-side show set with the judges on one side and the audience on the other and in bleachers on the end with the main curtain opposite end. The performance area will be 114 feet long and 62 feet wide; 21 feet behind the curtain will allow for a small pre-performance warm up. As with any regular event, full warm ups will utilize the entire show surface.

This year's theme is "Hooray for Hollywood" and any spotlights and productions selected for the "Themed" category should be a tribute to Hollywood glitz and glamour.

Entry deadline for ISI Theatrical Challenge is Aug. 15, so there is plenty of time to start making preparations. Give your skaters the gift of an experience — every skater deserves to feel like a star! **ISI**

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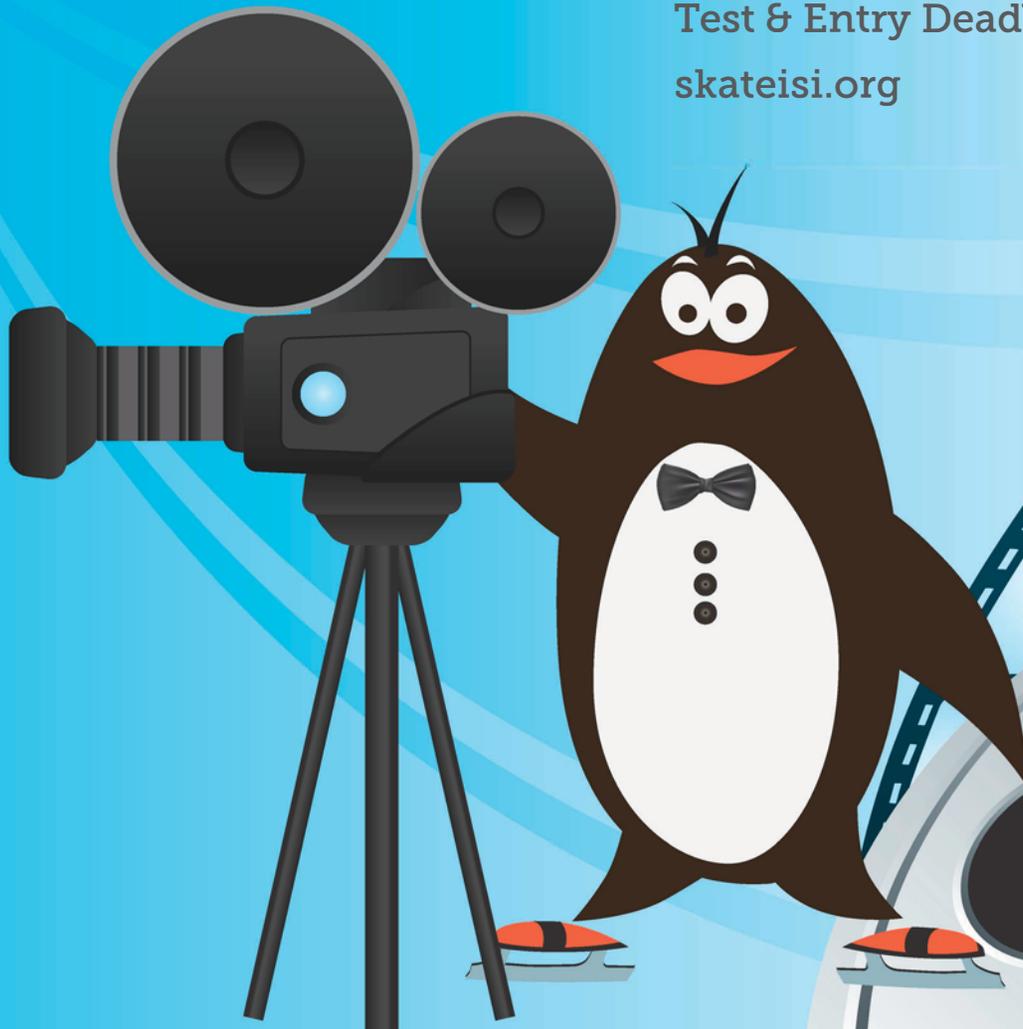
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Piney Orchard Ice Arena
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Test & Entry Deadline: April 1
skateisi.org



ISI JUDGE CERTIFICATION TESTS

Congratulations to the following instructors who have recently passed ISI judge certification tests:



Christina Dubinsky
David Goodman
Kirby Goodman
Alyson Hansen
Alicia Kramer
Kyra Leonard
Sabrina Logren
Cassandra McGuinness
Kara Miller
Jennifer Netrosio
Lisa Ritchie
Angela Schramm



Stephanie Batts
Morgan Berns
Katrina Bjorkstrand
Michael Esposito
Kirby Goodman
Alyson Hansen
Keersten Heinrich
Sabrina Logren
Kara Miller
Jennifer Netrosio
Mandy Pirich
Hannah Post
Rebecca Saros

Andrea Schwartz
Katie Shearer
Wendy Sylvia
Ally Ye



Carly Andrews
Kelsey Anenson
Emma Baker
Maddie Binder
Sarah Brault
Linda Carbonetto Villella
Grace Christian
Allison Couch
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Michael Esposito
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- Membership - \$60
- Liability - \$60

HOCKEY RATES

- Youth (17 & under) - \$23
- Adult (18+) - \$28
- Official - \$16



DISTRICT UPDATES

ISI DISTRICT 1

(CONNECTICUT, MASSACHUSETTS, MAINE, NEW HAMPSHIRE, RHODE ISLAND, VERMONT)

by Alane Swiderski, District Director



The season has kicked off in District 1! We began with the Halloween Classic Competition on Oct. 28, hosted by Winterland Skating School. The event was a great success from start to finish. Mary Sullivan, skating director, and Ginger Crisp, competition director, adopted the Entry Eeze competition entry system as well as a new fee

structure and both were very well received. It was great to see fuller flights in most categories and the competition running over 12 hours. They also had a skater's room with activities and amazing decorations. A great event! We look forward to Winterland hosting our ISI District Championships in June!

Our second competition of the year, the Icicle Invitational hosted by Navin Arena, was also a great success with a similar pattern. Stefanie DeSimone gave Entry Eeze another try and also saw great results from fuller flights and a longer competition day. We received so many compliments about this competition.

Congratulations to all the skaters who participated in these competitions and to Stefanie, Ginger and Mary for their amazing success. Thanks to Donna Rozon who was integral in helping both competitions get set up with Entry Eeze. We look forward to the rest of the District 1 competition season and many great things to come.

We held our first seminar for coaches new to ISI or through Bronze certification on Nov. 4 in Attleboro, Mass. It was well attended with approximately 30 participants. Thanks to our guest speakers, Dottie Cunningham, Gigi Kerrigan, Mary Sullivan and Kim Schaefer, who spoke about everything from ethics to technique. Thanks to Jen Whitfield and the New England Sports Village for hosting and Gigi for coordinating.

Our Jan. 15 seminar, judges workshop and annual awards ceremony was held at the Navin Arena. At this event, we presented our District 1 Professional Awards: For The Love of the Sport Award, Sky Full of Stars Award, Coach and Director of the Year and the District Merit Award. Our seminar series will conclude on April 15 in Revere, Mass., with another coach's seminar and judges workshop. We hope to see many District 1 professionals at these events! As always, if any District 1 facility wishes to host a seminar for their staff and coaches, please let me know!

District 1 is gearing up to host the 2018 ISI Worlds! We have many teams making plans to ensure a wonderful District 1 showing and welcome and hope to see teams from all districts!

To have your District 1 rink featured in the next ISI EDGE, please send news to aswiderski@fmcicesports.com.

ISI DISTRICT 8

(CHICAGO/MILWAUKEE METROPOLITAN AREA)

by Vicky Klinko-Osseland, District Director



We've had a great start to the competition season, with Harvest Gold in Joliet, Ill. and the Winter Welcome in Northbrook, Ill. Both competitions were well attended and well run. Both of these events also incorporated Freestyle 7-9 test sessions. Between the two events, we had three skaters pass their Freestyle 8 tests. Congratulations to

Hannah Mitchell and Grace Grude from Joliet and Janine May from Oakton on their accomplishment!

We have a busy 2018 ahead. The following competitions are coming up: *District 8 Championships, March 2-4, Centennial Ice Rinks, Wilmette; Ice Breaker Classic, March 9-11, Oakton Ice Arena, Park Ridge, Ill.; Spring Fever, April 14-15, Franklin Park Ice Arena, Franklin Park, Ill.*

We will continue to offer Freestyle 7-9 test session in conjunction with many of our competitions.

We are also excited for the ISI national events, ISI Synchronized Championships and Chicago Showdown, being held April 6-8 at The Edge Ice Arena in Bensenville Ill. Our teams are getting ready for a fun weekend.

A huge congratulation goes out to current ISI District 8 skater Joseph Klein for his 6th place finish in Intermediate at the U.S. Figure Skating Championships (Nationals)! Joseph's home rink is the Northbrook Sports Center in Northbrook, Ill.

Congratulations to the many former ISI District 8 skaters who were also a part of this year's Nationals: Ethan Peal, Juvenile Boys, Intermediate Dance, Highland Park; Samantha Liker, Intermediate Ladies, Northbrook Sports Center; Laiken Lockley, Junior Pairs, Rolling Meadows; Ariela Masarsky, Novice Ladies, Glenview Ice Center; Calista Choi, Novice Ladies, Leafs Ice Center; Alexa Scimeca, Senior Pairs, Addison Ice/International Skating Corp.; Danny O'Shea, Senior Pairs, Zion Ice Arena; Jessica Calalang, Senior Pairs, Lake Forest Ice Palace; Deanna Stellato, Senior Pairs, Glenview Ice Center; Jordan Moeller, Senior Men, Oak Lawn Ice Arena; Jason Brown, Senior Men, Highland Park; Tomoki Hiwatashi, Senior Men, Hoffman Estates; Alex Benoit, Senior Dance, The Skate School LLC @ Fox Valley.

Check out our website and newsletter for upcoming events in our district. To subscribe to our newsletter, please email isidistrict8@gmail.com.

To have your ISI District 8 rink featured in ISI EDGE, please send your news to isidistrict8@gmail.com

LIKE US:



DISTRICT UPDATES



ISI DISTRICT 10

(IOWA, MINNESOTA, NEBRASKA, NORTH DAKOTA, SOUTH DAKOTA, WISCONSIN)

by Jane Schaber, District Director



We are well into our competition and programming season in District 10. Enthusiasm seems to continue building, and hopefully we will see even more growth brought on with “Olympic fever” over the extended time.

We held a successful joint ISI District Seminar with PSA in September with 68 attendees for the ISI portion of the day. Diane Miller provided a lot of great information and Kelly Corcoran’s choreography session was excellent. We look forward to having Kelly present both on- and off-ice at the ISI Conference & Trade Show in the Washington, D.C. area this June.

While there are still some questions coming forth about the “new” requirements regarding Individual memberships and test registrations, most rinks are finding it easy to implement processes to make this happen — and most have responded that it wasn’t as difficult to do as they had originally thought.

We are excited to bring back another national event to District 10, with the 2019 ISI Synchronized Skating Championships. This event will be hosted at the Doug Woog Ice Arena in South St. Paul, Minn., where we recently hosted the 2017 ISI Conference Champs. If your facility doesn’t currently have a synchro line, now would be a great time to start a new program within your facility with the goal of competing in this great event!

To have your District 10 rink featured in the next ISI EDGE, please send your news to JSchaber@superrink.org.

ISI DISTRICT 11

(ARKANSAS, LOUISIANA, OKLAHOMA, TEXAS)

by Caroline Baker, District Director



The District 11 Seminar was held Nov. 9 at Dr Pepper StarCenter in Farmers Branch, Texas. The district was fortunate to have Rob McBride, Liz Mangelsdorf, David Santee and Roger Morris speak at this year’s seminar; we had our own “mini” conference. All the speakers were well received.



At the November District 11 Seminar, coaches enjoyed instruction by two-time Olympian and World silver medalist David Santee, skating director at Oakton Ice Arena in Park Ridge, Ill. ISI District 11 Director Caroline Baker presented Alexei Sidorov with the 2017 District Merit Award.

Dr Pepper StarCenter – Farmers Branch presented its annual holiday show and Skate with Santa on Dec. 2. Skaters, friends and family had a wonderful time, according to skating school director Christy Malacrea.

Andrea Larson, skating school director, reports that the 7th annual ISI-endorsed “Holidays on Ice” show was held on Dec. 3 at the Allen Event Center in Allen, Texas. The Allen Academy of Skating and Figure Skating Program had 95 students participate. The show was free for all. In attendance were 739 spectators. In an effort to raise donations for Allen Community Outreach, non-perishable items were collected at the front door. This event raised 1,135 pounds of food to help so many in need!



The Allen Academy of Skating and Allen Community Ice Rink skaters performed in “Holidays on Ice” on Dec. 3.

The El Paso Figure Skating Club hosted their Christmas show, “Holidays Around the World,” on Dec. 15, according to skating school director Sandra Pelko.



The El Paso Figure Skating Club’s “Holidays Around the World” show.

ICE at The Parks in Arlington, Texas, hosted their annual “Holiday at the Parks” show on Dec. 16. Two hundred-plus skaters participated in this annual show. Learn-To-Skate students performed class group routines. ICE at The Parks currently has three synchronized teams: Jr Sparklerettes, Sr Sparklerettes and the Southwest Sparklers. These teams skated in the holiday show. In addition, there were many solo, couple and ensemble performances. “Holiday at the Parks” is a family favorite holiday event!

Upcoming spring competitions include: District 11 Championship, May 4-6 at ICE at The Parks and Stars of Austin FSC, Austin, Texas – Texas Independence Open, June 29 – July 1, Chaparral Ice, Austin.



More than 200 ICE at the Parks skaters participated in the Dec. 16 performance of “Holiday at the Parks.”

ICE at The Parks will host its Annual “Winter Party” on Feb. 23. This year’s party will have an Olympic theme and is free to all of the Learn-To-Skate

students and their friends and family. All those in attendance will receive an "Olympic gold medal" and have their picture taken as they stand on the medal podium. "Olympic" events include sled rides, hockey shooting, snowman building, snowball target and of course, ice skating.

To have your ISI District 11 rink featured in ISI EDGE, please send your news to caroline-theice@sbcglobal.net.

ISI DISTRICT 12

(COLORADO, NEW MEXICO, UTAH, WYOMING)

by Debbie Lane, District Director



We will host our free, annual ISI District Seminar on Feb. 23 at South Suburban Family Sports Center in Centennial, Colo. We are excited to have ISI President Rob McBride as one of our guest speakers for the management section. He will be joined by ISI First Vice President Lisa Fedick, and David Santee, Olympic silver medalist, is our guest

speaker for the instructor's section.

Moving into the summer, we will host a competition on June 10 at South Suburban Ice Arena. We have already had interest from other countries regarding sending skaters.

ISI DISTRICT 18

(FLORIDA)

by Glyn Jones, District Director



The holiday season was busy, although not as busy as previous years. Our public sessions and learn-to-skate classes have been disappointingly flat. I don't know if it's fear of the economy or the fact that the hurricane damage last September cost a lot of money for homeowners and businesses, so everyone is being fiscally cautious. Birthday parties and groups also seem to be down; this seems to be statewide.

The Ice Sports Forum in Brandon held their annual competition in September, earlier than normal due to the ISI Holiday Challenge in Orlando. The turnout was very good.

Our ISI District Coaches' Seminar had to be postponed until April as the Ice Sports Forum had to close their rinks while replacing dasher boards this month.

Our District Championships will be held in June at the new Clearwater Ice Arena.

Congratulations to all our District 18 teams that skated in the ISI Holiday Challenge in October.

To have your ISI District 18 rink featured in ISI EDGE, please send your news to glynjones20@gmail.com.

Be a Star at the 2018 ISI Worlds

BOSTON 2018 ISI World Recreational Team Championships

July 23-28
New England Sports Center
Marlborough, MA
Test & Entry Deadline: May 1
skateisi.org

Calendar

2018 ISI-Endorsed Competitions and Shows & Exhibitions

Deadline for the next EDGE calendar: March 12

For updates, see skateisi.org (Events).



CHICAGO SHOWDOWN

April 7

Entry Deadline: Feb. 1

COMPETITIONS

FEBRUARY

24-25 Southgate MI

Southgate Civic Arena
Southgate ISI Winter Competition 2018

25 Easton MD

Talbot County Community Center Ice Rink
2018 Talbot Classic

25 Brooklyn NY

Lakeside Brooklyn
3rd Annual Lakeside Brooklyn Competition

MARCH

2-4 Wilmette IL

Centennial Ice Rinks – Wilmette
ISI District 8 Championships

2-4 Minneapolis MN

Parade Ice Gardens
Skate Parade

3 Roseville CA

Skatetown Ice Arena
Be A Star

3-4 San Diego CA

San Diego Ice Arena
2018 California State Games

3-4 Webster Groves MO

Webster Groves Ice Arena
Meet Me in St. Louis

3-4 Natick MA

FMC Ice Sports William L. Chase Arena
47th Annual ISI Competition

9-11 Sioux Falls SD

Sioux Falls Figure Skating Club
SCHEELS IcePlex
2018 Sioux Falls Ice Classic

9-1 Park Ridge IL

Oakton Ice Arena
Ice Breaker Classic

10-11 San Francisco CA

Yerba Buena Ice Skating Center
Shamrock Skate

10-11 College Park MD

Herbert Wells Ice Rink
Spring Invitational

10-11 Wasilla AK

The Brett Memorial Ice Arena
Iditarod Days Skatfest

10-11 Van Nuys CA

Iceland – Van Nuys
15th Annual ISI Open Competition

10 Virginia Beach VA

Iceland of Hampton Roads
25th Annual Azalea Open

10-11 Newark OH

Lou & Gib Reese Ice Arena
2018 Newark Spring Open

16-18 Jefferson City MO

Washington Park Ice Arena
25th Annual Capital City Classic

16-18 Oldsmar FL

Tampa Bay Skating Academy – Oldsmar
2018 Spring Fling ISI Competition

23-25 Owensboro KY

City of Owensboro's Edge Ice Center
7th Annual Living on the Edge

24-25 El Segundo CA

Toyota Sports Center
28th Annual Spring Fling ISI Open Competition

13-15 Soldotna AK

Soldotna Regional Sports Complex
Riverskate

14 Pittsburgh PA

Ice & Blades Figure Skating Team
Alpha Ice Complex
Golden Blades Championship of
Pittsburgh 2018

14-15 Riverside CA

Riverside Icetown
Orange Twist Open

21 Tacoma WA

Sprinker Recreation Center
31st Annual ISI Spring Fever Team Competition

28 Boxborough MA

Nashoba Valley Olympia
Nashoba Valley Olympia 31st Annual ISI
Team Competition

28-29 Yorktown VA

Hampton Roads IcePlex
ISI District 4 Championships

MAY

4-6 Knoxville TN

Ice Chalet
The 49th Annual Robert Unger ISI Competition

18-20 Concord MA

Sharper Edge Skating School/Valley
Sports Arena
Sharper Edge Skating School's 16th Annual
Skater's Cup

APRIL



**ISI SYNCHRONIZED
CHAMPIONSHIPS**

April 6-8

Edge Ice Arena
Bensenville, IL

Entry Deadline: Feb. 1

FOLLOW US:



JUNE

1-3.....New York NY
 Sky Rink at Chelsea Piers LP
 32nd Annual Sky Rink ISI Endorsed Team Competition



ISI CONFERENCE CHAMPIONSHIPS
 June 1-3
 Piney Orchard Ice Arena
 Odenton, MD
 Test & Entry Deadline: April 1

9-10.....South Lake Tahoe CA
 Tahoe Sports Entertainment
 District 14 Championships – Skate at the Lake 2018

10.....Centennial CO
 South Suburban Ice Arena
 Yvonne Dowlen Memorial ISI Competition

21-24.....Rockland MA
 Winterland Skating School
 28th Annual ISI District 1 Championships

JULY

21-22.....Lynchburg VA
 Liberty University
 Virginia Commonwealth State Games



ISI WORLD RECREATIONAL TEAM CHAMPIONSHIPS
 July 23-28
 New England Sports Center
 Marlborough, MA
 Test & Entry Deadline: May 1

AUGUST

4-10.....Cergy-Pointoise, France
 International Gay Figure Skating Union
 Aren'Ice Zac des linandes
 Gay Games 10 – Paris 2018

SHOWS & EXHIBITIONS

FEBRUARY

23-25.....New Ulm MN
 New Ulm Figure Skating Club
 New Ulm Civic Center
 Happily Ever After

MARCH

2-4.....Jefferson City MO
 Washington Park Ice Arena
 Hats the Way I Like it

3-4.....Hutchinson MN
 Burich Arena
 Going for the Gold

4.....Salem MA
 Viking Figure Skating Club
 Salem State University's Rockett Arena
 Viking Skates Back in Time

10.....West Windsor NJ
 Mercer County Skating Center
 Mercer County's Skating Center Annual Exhibition

10.....Tacoma WA
 Sprinkler Recreation Center
 ISI Camp Showtime

17-18.....St Louis Park MN
 St Louis Park Rec Center
 Hooked on A Feeling

17.....Peoria IL
 Owens Center
 Awesome 80s

18.....Brooklyn NY
 Lakeside Brooklyn
 Celebrate Brooklyn! 3rd Annual Lakeside Spring Showcase

23-24.....Luverne MN
 Blue Mound Ice Arena – Blue Mound Figure Skaters
 Skate Carnivale

31.....Soldotna AK
 Soldotna Regional Sports Complex
 Cloudy with a Chance of Skating

APRIL

4-10.....Stevens Point WI
 K.B. Willett Ice Arena
 Skate Vegas

14-15.....College Park MD
 Herbert Wells Ice Rink
 Mary Poppins

27-28.....Roseville CA
 Roseville Skating Center
 Emoji Land

27-29.....Chicago IL
 McFetridge Sports Center
 Skating Through Life

27.....Park Ridge IL
 Oakton Ice Arena
 Into the Wild

MAY

5-6.....Sioux Falls SD
 Sioux Falls Figure Skating Club
 SCHEELS IcePlex
 Lion King on Ice

11-12.....Cottage Grove MN
 Cottage Grove Ice Arena
 Just The Ticket

18-19.....Newark OH
 Lou & Gib Reese Ice Arena
 13th Annual Jane McConnell Ice Show

18-20.....St. Peters MO
 St. Peters Rec-Plex
 Golden Tickets and Chocolate Dreams

18-20.....Franklin Park IL
 Franklin Park Ice Arena
 2018 Spring Show

18 – 20.....Wilmette IL
 Centennial Ice Rinks – Wilmette
 Ice-Ential Elements

JUNE

16-17.....Boxborough MA
 Nashoba Valley Olympia
 ICE MAGIC 2018

DECEMBER

1-2.....Franklin Park IL
 Franklin Park Ice Arena
 2018 Holiday Recital

LIKE US:



Mark MacCracken

CEO, LEED Fellow
CALMAC
Fair Lawn, N.J.



WORK EXPERIENCE

In over 40 years with CALMAC, Mark has been involved in all aspects of the company, including research and development, contracts, patents, manufacturing, marketing and finance. He was the principal investigator on research projects with Oak Ridge National Laboratory, NASA and National Renewable Energy Laboratory.

He is serving or has served in the following capacities:

- New Buildings Institute (NBI) board member
- New York City Building Resiliency Task Force contributor
- U.S. Green Building Council (USGBC) National Board of Directors chair
- American Society of Heating, Refrigeration and Air-Conditioning (ASHRAE) Board of Directors and Thermal Storage Product Section chairman
- ASHRAE Distinguished Lecturer
- ASHRAE Thermal Storage Technical Committee chairman
- Member of Alliance to Save Energy
- Member of Electricity Storage Association
- ASHRAE Standards Committee 189.1 vice chairman

WHAT DOES YOUR COMPANY PROVIDE FOR THE ICE SPORTS INDUSTRY?

“CALMAC provides the best skating rink surface. Simpler than alternatives, IceMat® ice rink floors quickly roll out like a carpet and can be installed in a matter of days. It’s a cost-effective option for rink renovations and rinks of all shapes and sizes and most importantly, skaters get great quality,

high-performance ice. CALMAC is the originator of the IceMat ice rink floor and has been in business since 1947. Millions around the world have already skated on IceMat permanent and portable rink floors, including one of the most iconic ice rinks in the world — The Rink at Rockefeller Center in New York City.

While ice rinks are a major focus of CALMAC, we also play a significant part in the world’s transition to renewable energy resources. We use our expertise in the science of ice for the storage of cool energy to bridge the mismatch between variable solar and wind capacity and building peak cooling loads. IceBank® energy storage technology stores renewable energy in the form of ice to air-condition schools, hospitals, government facilities and other commercial buildings around the world.”

HOW DOES BEING AN ISI MEMBER BENEFIT YOUR COMPANY?

“Being an ISI member increases our visibility in the ice rink industry and creates a platform to network, interact and share with industry professionals while engaging with the skaters who use our product every day.”

FUNNIEST/MOST INTERESTING MOMENT ON THE JOB

“The best day in my professional career was arriving at Rockefeller ice rink at 7:30 a.m. to confer on their failed ice rink floor, then getting the order and designing, manufacturing, delivering and installing a new rink by 7:30 a.m. the next morning.

“The initial conversation with the customer, while looking at a rink floor that had zero ice after five days of trying to circulate 3F-fluid went something like this: RC Guy: *‘I’m screwed, aren’t I?’* Me: *‘Yup.’* RC Guy: *‘Can you fix it?’* Me: *‘Yup.’* RC Guy: *‘How fast?’* Me: *‘My goal is 24 hours, but I can’t promise that.’* RC Guy: *‘Go.’* ... the rest is history.”

Mark and his family, with the Matterhorn in background.



Mark, right, with his son, Josh, left, and mountaineering guide Tom Connelly on the summit of the Matterhorn.

RC Guy: *‘Can you fix it?’* Me: *‘Yup.’* RC Guy: *‘How fast?’* Me: *‘My goal is 24 hours, but I can’t promise that.’* RC Guy: *‘Go.’* ... the rest is history.”

WORDS OF WISDOM

“My father’s words of wisdom to me were: *‘If you wouldn’t want to read about it on the front page of The New York Times tomorrow morning, don’t do it.’* I’ve always heeded that advice. I think mine would be: *‘Nothing difficult and important gets done without setting goals and making a plan.’*”

FAVORITE ACTIVITIES

They’re mostly involving water (either frozen or unfrozen): kiteboarding, mountaineering, skiing and skating. “The most awe-inspiring experience in the world I have found is skiing the 7-mile piste from the top of Zermatt, Switzerland, into Italy with the Matterhorn in full view.”

FAMILY LIFE

“I feel I’m the most blessed man alive. I have a wonderful wife of 26 years, a son and now a daughter (in-law). My wife, Kimberly, and I have lived for a quarter of a century in a small apartment (with a great view) in New York City and have traveled the world for business and pleasure. Adventure travel is done with my son and the list is long. I have a lengthy list of highly accomplished ancestors giving me first-hand inspiration for setting life goals high.”

LITTLE KNOWN FACT ABOUT MARK

“I have repelled into, and climbed out of, a moulin on an Alaskan glacier — truly magical.” **ISI**



Catching air while kiteboarding!

GET SCHOOLED

Attend ISI University Courses at the 2018 ISI Conference

June 5-6

NEW THIS YEAR!

- Revised schedule enabling ISI University (ISIU) students to complete their coursework before the conference opening, so they can benefit from the majority of the general sessions offered.
- Certified Skating Director, Part 3 (CSD3) Course.

All ISI University courses can be used as PSA continuing education credits (CEUs). CAM, CAO, CAP and CSD are presented in three segments (or modules), with full certification in three years. As always, the three modules can be completed in any order.

Course Offerings:

CERTIFIED SKATING DIRECTOR, PART 3 (CSD3)

- Effective Communications
- Personal Branding
- The Business of Coaching
- Coaching Policies
- Conflict Resolution
- Arena Operations Overview: Working with the Back of the House
- Technical Teaching & Skater Training Best Practices
- Program Creation Lab
- Demystifying Hockey

CERTIFICATE OF ARENA MANAGEMENT PART 1 (CAM1)

- Role of the Arena Manager
- Leadership & Personal Image
- Financial Management – Budgeting
- Financial Management – Accounting
- Arena Scheduling
- Contract Administration
- Public/Private Management
- Policy Administration
- Risk Management

CERTIFICATE OF ARENA OPERATIONS PART 2 (CAO2)

- Human Resources for Operations
- Financial Management – Budgeting
- Emergency Preparedness
- Computers in Facility Maintenance
- Custodial & Housekeeping
- The Role of the Arena Operator
- Risk Management
- Customer Service & Retention
- Energy Management

CERTIFICATE OF ARENA PROGRAMMING PART 2 (CAP2)

- The Role of the Arena Programmer
- Electronic Marketing
- Managing Public Sessions
- Working with Volunteers
- Programs for Schools and Community Groups
- Employees vs. Independent Contractors
- Elite Programs
- Summer Skating Activities
- Dry-Floor Events

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