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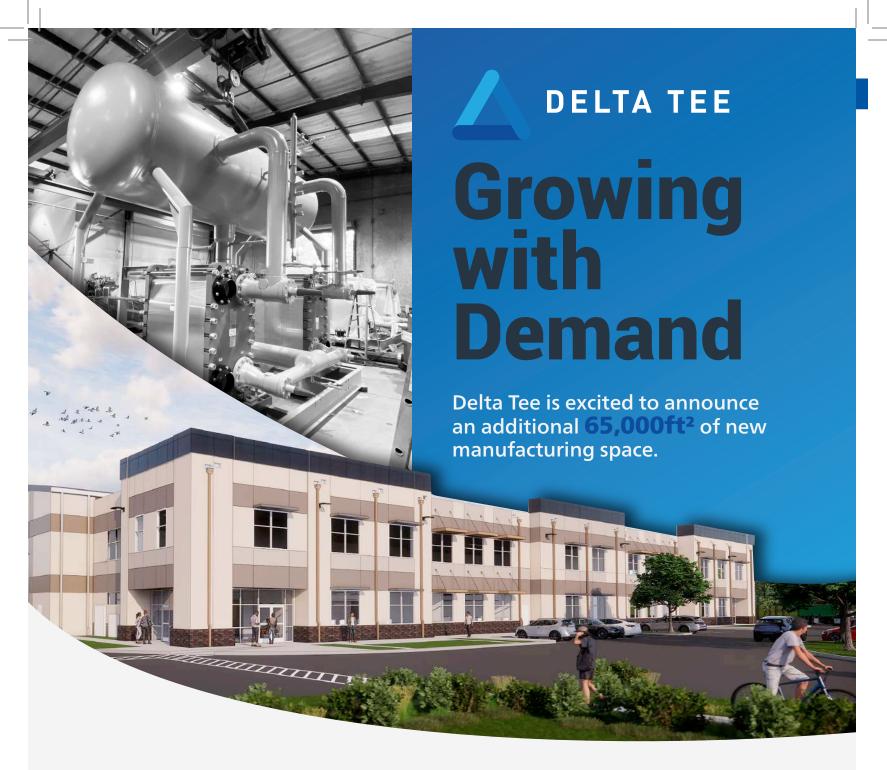
ZUNATURAL 24 REFRIGERATION CONFERENCE & HEAVY EQUIPMENT

EXPO



C O N F E R E N C E P R O G R A M

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MIKE McGINNIS 2024 CONFERENCE CHAIR

WELCOME TO ORLANDO AND THE 2024 HAR INDUSTRIAL REFRIGERATION CONFERENCE & HEAVY EQUIPMENT EXPO!

elcome to the 2024 IIAR Natural Refrigeration Conference & Exhibition! It's time to network and catch up with friends at our industry's largest conference and expo event.

We have many new changes to announce this year, so I would like to take this opportunity to talk about how this event, and especially your membership, is making a significant contribution.

First up is this year's new Natural Refrigeration Foundation (NRF) Fun Day, held on Sunday, March 24, benefitting the Foundation's research, education, and scholarship efforts. The NRF Fun Day is a day of pickle ball, cornhole, and our annual William E. Kahlert golf tournament, followed by an awards ceremony, our VIP reception, and the newly announced Diversity in Natural Refrigeration reception.

This is our first-ever Fun Day, and I invite you all to take advantage of the chance to network, relax, and enjoy a stress-free start to the week.

This year, we've also reformatted the committee meetings to allow everyone to attend more than one committee and enjoy the NRF Fun Day. Rather than Sunday, committee meetings will now be held on Saturday afternoon from 1:00 PM to 6:00 PM and Tuesday morning from 8:00 AM to 11:30 AM.

It's easier than ever to get involved in the vital work of IIAR committees. Whether you're a longtime committee member or just joined, I'm looking forward to meeting you at another new event just announced for 2024, our Saturday night welcome dinner for the IIAR Board of Directors and all IIAR committee members. Please join us for a special thank you for honoring the work only our dedicated IIAR members can do.

Also new this year is another special event, our first-ever student day, on Wednesday, March 27 from 7:30 AM to 12:15 PM. The IIAR Student Day will host post-secondary students in every phase of their academic journey to introduce them to a career in natural refrigeration.

After a morning educational program, students will be invited to the IIAR exhibit hall to meet and network with IIAR exhibitors interested in hosting them in their booth. This is a unique opportunity for IIAR exhibitors to connect directly with students to discuss job opportunities and set up interviews to cultivate the next generation of talent in our industry.

Finally, don't miss out on the Monday night social event, which will be held at Andretti Indoor Karting & Games this year. Bring your competitive spirit to the laser tag arena and go-cart track.

I'm excited about all these changes and the success of this year's conference, which is already one of the best on record with a first-ever sold-out exhibit hall! Please join me in thanking your hardworking IIAR staff for completing another successful event. And if you're new here, I hope you enjoy the energy and enthusiasm of your colleagues. Welcome to Orlando and enjoy the conference.

Best Regards, Mike McGinnis, 2024 Conference Chair



KEYNOTE SPEAKER

SCOTT ZIMMER

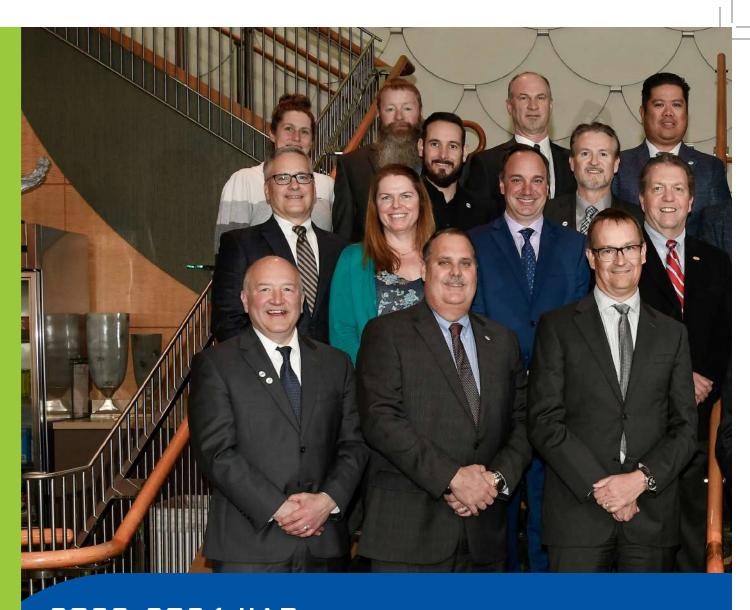
cott has over 20 years of experience delivering keynote speeches to audiences around the world. During his career, Scott worked for one of the most reputable generational consulting firms in the country, where he had the opportunity to travel to global Fortune 500 companies to help organizations bridge the generational gaps that can occur in the workplace. Today, he continues to help organizations create a workplace culture where every generation feels valued, respected, and understood.

Scott works hard to learn every client's desired outcome and customizes each presentation to curate an experience focused on achieving your specific organizational goals. His presentations are informative, engaging, and fun – giving audiences both an experience they'll remember and actionable takeaways they can use to strengthen workplace relationships and culture.



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2023-2024 IIAR BOARD OF DIRECTORS & OFFICERS

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Vilter Manufacturing Manufacturer

Trevor Hegg, Immediate Past Chair Evapco Manufacturer

Gary Schrift President IIAR

Ex-officio

* Ex-Officio

Pictured Left to Right:

First Row: Gary Schrift, Jeff Carter, Dave Malinauskas, Wayne Wehber, Trevor Hegg, Mike McGinnis

Second Row: Jim Adler, Jeanna Emmons, Maxime Girot, Mark Bazis Jr., Kurt Liebendorfer, Mark Stencel, Michael J. Lynch, Stephanie Smith, Miguel Garrido, Nick Nechay, Don Faust, Doug Scott, Joe Fazzari

Third Row: Lesley Schaefer, Glen Heron, Todd Jekel, Alexander Vergara, Max Duarte, Aer Teale, William (Bill) Greulich



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COMMITTEES

CO2 HANDBOOK

Committee Chair: Wayne Borrowman,
CIMCO Refrigeration — Developed and
published consensus specifications and
recommendations, in a manual, on all
facets of a cascade refrigeration system
using CO2 (R-744) on the low side and
NH3 (R-717) on the high side and to further
promote this method of refrigeration using
these two natural refrigerants. Maintains
a close working relationship with our
National and International members
to; update information, review code
requirements, update material, provide
methods of application, research, safety
and new component development.

COMPLIANCE GUIDELINES

Committee Chair: Ryan Murphy,
Bassett Mechanical — Manages and
updates the IIAR regulatory publications.
The committee will maintain the PSM/
RMP Manual, ARM Manual, Ammonia
Data Book and new regulatory publications.

EDUCATION

Committee Chair: John Flynn, General Refrigeration — Further the knowledge of the ammonia refrigeration industry and other parties affected by our industry through the publication and dissemination of relevant industry information in the form of bulletins (an interpretation of national codes and design methodology), videos, handouts, formal classes, workshops and seminars.

ENERGY SUSTAINABILITY

Committee Chair: Aer Teale, P.E., Lineage Logistics — The Energy Sustainability Committee will be encompassing of not only the technical aspects but also the human factors, social responsibility, and regulatory. In other words, we will need a large swath of skills and expertise as we lay the foundation for tomorrow.

GOVERNMENT RELATIONS

Committee Chair: Mark Tomooka
Clark Johnson Company, Inc. —
Dedicated to government relations,
the Government Relations Committee
was formed to work directly with
the Institute's government affairs

representative. As IIAR continues to work on behalf of the industry with government officials both in the U.S. and in other countries, the committee addresses issues important to IIAR members and continues the organization's tradition of advocacy on behalf of the industry.

INTERNATIONAL

Committee Chair: Max Duarte, EVAPCO, Inc. — Expand IIAR activities around the world, recruit new members, translate IIAR publications and increase global distribution of IIAR publications through appropriate refrigeration organizations worldwide.

MARKETING

Committee Chair: Stephanie Smith, Risk Management Professionals, Inc. — Promote the use of ammonia refrigeration, reinforce IIAR's image within the ammonia refrigeration and related industries through advertisements and advertorials in industry publications; ensure that industry information is disseminated to members, industry and the general public; work with the headquarters staff on maintaining the marketing plan; develop and administer effective programs to ensure continued growth of IIAR.

PIPING

Committee Chair: Rob Sterling, Sterling Andrews Engineering, PLLC — Develop and publish consensus specifications for pipe fittings and pipe materials used in the construction of ammonia refrigeration piping systems. Review other areas of interest that concern piping systems such as cleanliness, welding procedures, insulation and pipe sizing and recommends appropriate response to review issues which may include issuing publications.

RESEARCH

Committee Chair: William J. Greulich, Kensington Consulting — Identify and develop work statements that when implemented will benefit the ammonia refrigeration industry, and assist the IIAR staff in the development of these work statements into completed research projects.

SAFETY

Committee Chair: Rob Baker, Republic Refrigeration — Develop and implement projects intended to inform as well as educate the ammonia refrigeration industry and related parties on the proper and safe use of ammonia as a refrigerant and the proper and safe operation and maintenance of ammonia refrigeration systems.

STANDARDS

Committee Chair: Don Faust, FRICK
Industrial Refrigeration — Update and interpret the IIAR standard(s), review and interface with other standard writing organizations that include ammonia and ammonia refrigeration systems within their standards, develop ideas for and write new standards (and other publications of interest to the industry) to be sponsored by IIAR and work with the American National Standard Institute (ANSI) and IIAR staff in moving standards through the ANSI approval/review process.

COMMITTEE SCHEDULE

Day	Time	Committee	Room
Saturday, March 23	1:00 PM – 5:00 PM	Standards Committee	Swannee 16/17
Saturday, March 23	1:00 PM – 5:00 PM	Piping Committee	Swannee 14
Saturday, March 23	1:00 PM – 5:00 PM	Government Relations Committee	Swannee 11/12
Saturday, March 23	1:00 PM – 5:00 PM	Research Committee	St. Johns 24/25
Saturday, March 23	1:00 PM - 5:00 PM	Marketing Committee	St. Johns 22/23
Saturday, March 23	1:00 PM – 5:00 PM	Energy Sustainability Committee	Swannee 11/12
Saturday, March 23	1:00 PM – 5:00 PM	CO2 Committee	St. Johns 33
Monday, March 25	10:00 AM – 12:00 PM	Education Committee	St. Johns 28/29
Tuesday, March 26	8:00 AM – 9:30 AM	Safety Committee	St. Johns 24/25
Tuesday, March 26	8:00 AM – 9:30 AM	International Committee	St. Johns 26/27
Tuesday, March 26	10:00 AM – 11:30 AM	Compliance Committee	St. Johns 24/25
Tuesday, March 26	10:00 AM – 11:30 AM	Latin America (LATAM) Subcommittee	St. Johns 26/27
Tuesday, March 26	10:00 AM – 11:30 AM	AIM ACT Strategic Task Force	St. Johns 28

2024 IIAR NATURAL REFRIGERATION CONFERENCE & HEAVY EQUIPMENT EXPO



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24 NATURAL REFRIGERATION 24 CONFERENCE & HEAVY EQUIPMENT EXPO

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= Shading indicates Exhibit Hall Open

• Registered attendees are invited to all events, meals, & programming unless 'by invitation only' is noted.

Friday, Ma	Friday, March 22, 2024		
		RETA Operator Training – Certified Refrigeration Service Technician Review Course	St. Johns 26/27
	March 23, 2		
7:00 AM	5:00 PM	RETA Operator Training – Certified Refrigeration Service Technician Review Course	St. Johns 26/27
8:00 AM	12:00 PM	Board Meeting (Outgoing and Incoming) – By invitation only	St. Johns 30/31
8:30 AM	5:00 PM	Registration Desk Open	Gatlin 1
12:00 PM	12:30 PM	Incoming Board Photos (Incoming – New Board) – By invitation only	St. Johns 30/31
12:00 PM	1:00 PM	Lunch for Board	St. Johns 30/31
12:30 PM	1:15 PM	Committee Meetings Coffee Break – For committee meeting attendees only	Outside Committee
			Meetings Hall
1:00 PM	5:00 PM	Committee Meetings – Standards	Swannee 16/17
		Committee Meetings – Piping	Swannee 14
		Committee Meetings – Government	Swannee 11/12
		Committee Meetings – Research	St. Johns 24/25
		Committee Meetings – Marketing	St. Johns 22/23
		Committee Meetings – Energy	Swannee 11/12
		Committee Meetings – CO2	St. Johns 33
3:00 PM	3:45 PM	Committee Meetings Coffee Break – For committee meeting attendees only	Outside Committee
0.00 414	F.00 DM	Estitis Hall Carry	Meetings Hall
9:00 AM	5:00 PM	Exhibit Hall Setup	Gatlin B/C/D/E
	8:30 PM	IIAR VIP DINNER for IIAR BOD and Committee members – New for 2024 – <i>By invitation only</i> – <i>Sponsored by Bonar Engineering</i>	Jaleo (offsite)
	arch 24, 20 8:00 AM	Golf Tournament Buffet Breakfast – Sponsored by Republic Refrigeration	Near Registration/Golf Carts
7:00 AM	5:00 PM	RETA Operator Training – Certified Refrigeration Service Technician Review Course	St. John's 26/27
7:30 AM	5:00 PM	Registration Desk Open	Gatlin 1
8:00 AM	2:00 PM	Golf Tournament – Sponsored by The Kahlert Foundation	Golf Course
8:00 AM	5:00 PM	Exhibit Hall Setup	Gatlin B/C/D/E
10:00 AM		Pickleball & Corn Hole Tournament – Cornhole Tournament Sponsored by Innovative Refrigeration Services	Tennis & Volleyball Court
10.00 AW	2.00 1 101		& Lawn
2:30 PM	3:30 PM	NRF Scholar Welcome	St. Johns 30/31
3:00 PM	4:00 PM	NRF Awards Ceremony & VIP Reception – Sponsored by EVAPCO	Lake Taho Patio
5:00 PM	5:30 PM	Diversity in Natural Refrigeration Reception – Sponsored by Cimco Toromont	Butler & Butler Balcony
5:30 PM	6:00 PM	First Timer Reception – Sponsored by Shambaugh & Son	Conway Room
6:00 PM		Chairman's Reception – Sponsored by MAYEKAWA	Gatlin Terrace
	March 25, 2		0.00
	5:00 PM	Registration Desk Open	Gatlin 1
7:00 AM	8:00 AM	General Session Breakfast	Gatlin 1
7:00 AM	5:00 PM	RETA – Certification Testing Day	St. Johns 26/27
8:00 AM	9:30 AM	Business Meeting (8:00 AM – 8:30 AM)	Panzacola F/G
0.00.414	4 00 014	Keynote Speaker (8:30 AM – 9:30 AM)	0
9:30 AM	1:30 PM	Exhibit Hall Open	Gatlin
9:40 AM		Product Showcase Presentation #1 – Vilter by Copeland – CO2 simplicity NOW: How a purpose-built compressor can accelerate your plans	Gatlin A1-2
10:00 AM		Coffee Break inside Exhibit Hall	Gatlin B/C/D/E
10:00 AM	12:00 PM	Education Committee Meeting	St. Johns 28/29
10:10 AM	TU:3U AIVI	Product Showcase Presentation #2 – M&M Carnot – Developing the Standard for Industrial Equipment and Training the Industry – Transcritical CO2	Gatlin A1-2
10:40 AM	11:00 AM	Product Showcase Presentation #3 – Frick – Innovation with Industrial CO2 Controls and Smart Cloud Monitoring	Gatlin A1-2
11:10 AM	11:30 AM	Product Showcase Presentation #4 – Colmac Coil – Colmac Coil HygenAir™ Hygienic Air Units: Selection Software and Product Overview	Gatlin A1-2
11:40 AM	12:00 PM	Product Showcase Presentation #5 – Baltimore Air Coil – Innovation for You, Delivered – 86 Years of BAC Evaporative Product Innovations	Gatlin A1-2
12:00 PM	1:00 PM	Lunch inside Exhibit Hall	Gatlin B/C/D/E
12:10 PM	12:30 PM	Product Showcase Presentation #6 – Dorin – CO2 Transcritical Compressors Up To 160HP: Design & Lab Tests	Gatlin A1-2
12:40 PM	1:00 PM	Product Showcase Presentation #7 – Zero Zone – Beyond Tomorrow: Future-Proof Innovations	Gatlin A1-2
1:10 PM	1:30 PM	Product Showcase Presentation #8 – Frascold – Semi-Hermetic Ammonia Screw Compressors	Gatlin A1-2
1:15 PM	1:30 PM	Monday Drone Raffle – Sponsored by Baltimore Air Coil	BAC's booth
1:30 PM		Exhibit Hall Closes	Gatlin B/C/D/E
1:30 PM	2:30 PM	TECH PAPER – Decarbonization with Falling Film Chiller and Heat Pump Integration: An Energy-efficient Method for Producing Cold and Hot Water in a Dairy Plant – Presented by José Augusto Castro Chagas	Panzacola F3-4
		WORKSHOP (in Spanish) – Aplicando el coeficiente de flujo CV para el correcto dimensionamiento de válvulas de control y la corrección de problemas reales en el sistema de refrigeración – Presented by David Sánchez	Panzacola H1-2
		WORKSHOP – Diversity and Inclusion in the Natural Refrigeration Industry – Presented by Dave Malinauskas, Aer Teale, Melissa Cassell	Gatlin A3-4
1:30 PM	3:30 PM	PANEL – Regulatory, Research, and Emergency Action Philosophy Panel – Panelists: Lane Loyko, Lowell Randel, Gary Smith, Thomas Schutzius	
		– (simultaneous English-Spanish interpretation)	

12 2024 HAR NATURAL REFRIGERATION CONFERENCE & HEAVY EQUIPMENT EXPO

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PROGRAM SCHEDULE



ROSEN SHINGLE CREEK

2:30 PM	3:30 PM	TECH PAPER – Five Best Practices for Energy Baselining – Presented by Charles Tuck	Panzacola F3-4
		TECH PAPER – Carrots to Sticks: Carbon Tracking for Cold Storage – Presented by James Majsak	Panzacola H1-2
		WORKSHOP (in Spanish) – Ahorro de energía y disminución de consumo de agua con tecnología híbrida y adiabática – Presented by Gerardo Lozano	Gatlin A1-2
		TECH PAPER – Application of Rotary Pressure Exchanger in CO2 Refrigeration Systems – Presented by Neelesh Sarawate	Gatlin A3-4
3:30 PM	4:00 PM	Technical Program Coffee Break	Outside Panzacola Foyer
4:00 PM	5:00 PM	TECH PAPER – Implications of HAZWOPER Emergency Response Regulations on Contractors – Presented by Jeff Pace	Panzacola H1-2
		TECH PAPER – Potential Energy Savings in Ammonia Systems with Use of Low-Stage De-superheating – Presented by Hannes Steyn	Panzacola H3-4
		TECH PAPER – CO2 System Add-Ons: Calculations and Field Measurements – Presented by Giacomo Pisano	Gatlin A3-4
		TECH PAPER (in Spanish) – Paquetes de carga crítica de amoniaco DX vs. Sistema centralizados de amoniaco recirculado, como alternativas de solución para sistemas de refrigeración industrial – Presented by Christian A. Muñoz Duran	Gatlin A1-2
4:00 PM	6:00 PM	PANEL – Customizing and Improving Your Facility's Compliance Program – Panelists: Jennifer Allen, Nikolaus Despain, James Hadley, Stephanie Smith, Rob St. Jean	Panzacola F1-2
		PANEL – Global Perspectives on Integrating Natural Refrigerants – Panelists: Amanda Brondy, Marc Chasserot, Duvan Chaverra, Andy Pearson, Michael Riese, Monika Witt – (simultaneous English-Spanish interpretation)	Panzacola F3-4
5:00 PM		TECH PAPER – Cues and Confirmation Your Piping is in Jeopardy: A Comparison of 20 + Years of NDT Data with Field Observations. – Presented by Suzy Vohsen	Panzacola H1-2
		TECH PAPER – Application and Considerations for Internal Relief in Industrial Refrigeration Systems – Presented by Todd Jekel	Panzacola H3-4
		TECH PAPER (in Spanish) – Intelligent CO2 Compressors and Ejectors for Enhanced System Efficiency and Reliability in Industrial Applications	Gatlin A1-2
		- Presented by Alessandro Silva	
		TECH PAPER – Controlling Circulation Rate in Ammonia Refrigeration Systems – Presented by Morten Juel Skovrup	Gatlin A3-4
6:00 PM		Buses start to depart to Monday Night Event	Outside Rosen Shingle Creek
		Monday Night Event at Andretti – Sponsored by EVAPCO	Andretti
	/larch 26, 2		
7:00 AM		Registration Desk Open	Gatlin 1
7:30 AM		Breakfast inside Exhibit Hall – Sponsored by Delta Tee	Gatlin B/C/D/E
7:30 AM	1:00 PM	Exhibit Hall Open	Gatlin B/C/D/E
7:30 AM	8:15 AM	Committee Meetings Coffee Break – For committee meeting attendees only – Sponsored by Isotherm	Outside Committee Meetings Hall
7:30 AM	1:00 PM	Exhibit Hall Open	Gatlin B/C/D/E
8:00 AM	9:30 AM	Safety Committee Meeting	St. John's 24/25
8:00 AM		International Committee Meeting	St. John's 26/27
	8:50 AM	Product Showcase Presentation #10 – Hansen Technologies – Better Protection with Connection	Gatlin A1-2
		Product Showcase Presentation #11 – EVAPCO – Introducing EVAPCO's EJET TM Evaporator: Superior Ammonia Direct Expansion Performance	Gatlin A1-2
9:30 AM		Product Showcase Presentation #12 – Guntner – Sustainable & Data-Driven Cooling: Güntner's Intelligent IoT Solutions for Energy & Water Savings	Gatlin A1-2
9:30 AM	11:00 AM	Outgoing & Incoming NRF Board Member Meeting – By invitation only	St. Johns 30/31
9:30 AM		Committee Meetings Coffee Break – For committee meeting attendees only – Sponsored by Isotherm	Outside Committee Meetings Hall
10:00 AM	11:30 AM	Latin America Sub Committee Meeting	St. Johns 26/27
		AIM Act task force Meeting	St. Johns 28
		Compliance Committee Meeting	St. Johns 24/25
		Coffee Break inside Exhibit Hall	Gatlin B/C/D/E
10:00 AM	10:20 AM	Product Showcase Presentation #13 – GEA – Using Heat Pumps for the Sustainable Reuse of Waste Heat	Gatlin A1-2
		Product Showcase Presentation #14 – Danfoss – Danfoss NeoCharge: Optimizing Low Charge Ammonia Systems	Gatlin A1-2
		Product Showcase Presentation #15 – Mayekawa – Low Charge mChiller – FUGU	Gatlin A1-2
		NRF Board Photos – By invitation only	St. Johns 30/31
		Committee Chairs Meeting – By invitation only	St. Johns 29
		Product Showcase Presentation #16 – SGS/SPX Refrigeration – Pioneering Advancement in CO2 Condensing & Gas Cooling	Gatlin A1-2
12:00 PM		Lunch inside Exhibit Hall Product Showard Proportion #17	Gatlin B/C/D/E
12:00 PM		Product Showcase Presentation #17 – Energy Recovery – Maximizing Energy Efficiency of Transcritical CO2 Refrigeration with PX G1300 Product Showcase Presentation #18 – Hillphoenix – Hillphoenix and Transcritical CO2 for the Industrial Refrigeration Industry	Gatlin A1-2 Gatlin A1-2
12:30 PM 12:30 PM	1:00 PM	Finance Committee Meeting – By invitation only	+
1:00 PM	1.00 PIVI	Exhibit Hall Closes	St. Johns 26/27 Gatlin B/C/D/E
1:00 PM	2:00 PM	WORKSHOP (in Spanish) – Uso de sistemas avanzados de ultima generación de CO2 transcritico, con gestión de energía telemetria en línea,	Panzacola F1-2
7.55 1 1	2.00 T WI	para centros logísticos robotizados y refrigerados – Presented by Pier Zecchetto	
		TECH PAPER – Controlling Circulation Rate in Ammonia Refrigeration Systems – Presented by Morten Juel Skovrup TECH PAPER – Described Systems with Folling Film Children Hart Purp Integration An Engrave officient Method for Producing Cold and Hart	Panzacola F3-4
		TECH PAPER – Decarbonization with Falling Film Chiller and Heat Pump Integration: An Energy-efficient Method for Producing Cold and Hot Water in a Dairy Plant – Presented by José Augusto Castro Chagas	Panzacola H1-2
		TECH PAPER – Cues and Confirmation Your Piping is in Jeopardy: A Comparison of 20+ Years of NDT Data with Field Observations – Presented by Suzy Vohsen	Gatlin A3-4
1:00 PM	3:00 PM	PANEL – Optimizing Energy Usage in Transcritical CO2 Systems – (simultaneous English-Spanish interpretation)	Panzacola H3-4

2024 IIAR NATURAL REFRIGERATION CONFERENCE & HEAVY EQUIPMENT EXPO

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PROGRAM SCHEDULE (CONTINUED)

= Shading indicates Exhibit Hall Open

Registered attendees are invited to all events, meals, & programming unless 'by invitation only' is noted.

2:00 PM	3:00 PM	WORKSHOP – Impact of Water on Evaporative Condenser Metallurgy – Presented by Dino Sittaro	Panzacola F1-2
		TECH PAPER – Application and Considerations for Internal Relief in Industrial Refrigeration Systems – Presented by Todd Jekel	Panzacola F3-4
		TECH PAPER – Application of Rotary Pressure Exchanger in CO2 Refrigeration Systems – Presented by Neelesh Sarawate	Panzacola H1-2
		TECH PAPER – Intelligent CO2 Compressors and Ejectors for Enhanced System Efficiency and Reliability in Industrial Applications	Gatlin A1-2
		- Presented by Alessandro Silva	
		TECH PAPER – Five Best Practices for Energy Baselining – Presented by Charles Tuck	Gatlin A3-4
:00 PM	3:30 PM	Technical Program Coffee Break	Outside Panzacola
:30 PM	5:30 PM	PANEL – History of Ammonia and IIAR: Together for Over 50 Years – Panelists: Hank Bonar, Andy Pearson, Vern Karman – (simultaneous English-Spanish interpretation)	Panzacola F1-2
:30 PM	4:30 PM	TECH PAPER - CO2 System Add-Ons: Calculations and Field Measurements - Presented by Giacomo Pisano	Panzacola F3-4
		TECH PAPER - Potential Energy Savings in Ammonia Systems with Use of Low-Stage De-superheating - Presented by Hannes Steyn	Panzacola H1-2
		TECH PAPER (in Spanish) - Paquetes de carga crítica de amoniaco DX vs. Sistema centralizados de amoniaco recirculado, como alternativas	Panzacola H3-4
		de solución para sistemas de refrigeración industrial – Presented by Christian A. Muñoz Duran	
		WORKSHOP – Don't Kill Your Golden Goose: Protect Your Business and Save Thousands in Taxes – Presented by Larry Oxenham	Gatlin A1-2
		TECH PAPER – Implications of HAZWOPER Emergency Response Regulations on Contractors – Presented by Jeff Pace	Gatlin A3-4
30 PM	5:30 PM	OPEN Tech Program room	Panzacola F3-4
		WORKSHOP – Decarbonizing the Industrial Sector – Presented by Sandeep Alavandi	Panzacola H1-2
		TECH PAPER - Carrots to Sticks: Carbon Tracking for Cold Storage - Presented by James Majsak	Panzacola H3-4
		WORKSHOP – How to Donate through Insurance and Estate Planning – Presented by Donna E. Frederick	Gatlin A3-4
:45 PM	7:00 PM	Exhibit Hall Open	Gatlin B/C/D/E
:00 PM	5:20 PM	Product Showcase Presentation #19 – LU-VE Group – Improving Efficiency in Transcritical CO2 Refrigeration Systems: A Case Study	Gatlin A1-2
:30 PM	5:50 PM	Product Showcase Presentation #20 – Wolters Kluwer Enablon – Empowering Excellence: Leveraging Software for Real-Time Transparency in Compliance, Risk Management, Process Safety, and overall Business Operations	Gatlin A1-2
:45 PM	6:00 PM	Tuesday Drone Raffle – Sponsored by Bassett Mechanical	Bassett's booth
00 PM	7:00 PM	Exhibitors Reception in the Exhibit Hall	Gatlin B/C/D/E
/ednesda	y, March 2	7, 2023	
:00 AM	10:30 AM	Registration Desk Open	Registration Desk
30 AM	10:30 AM	Exhibit Hall Open	Exhibit Hall A
30 AM	8:30 AM	Breakfast inside Exhibit Hall	Exhibit Hall A
30 AM	9:30 AM	WORKSHOP - Student Day Presentation: Current Issues in Natural Refrigeration - IIAR and IRR - All Attendees Welcome!	Gatlin A1-2
30 AM	10:30 AM	Student Tours of Exhibit Hall	Exhibit Hall
D:30 AM		Exhibit Hall Closes	Exhibit Hall
D:30 AM	11:00 AM	Coffee Break in area leading to Town Hall	Outside Panzacola
0:45 AM	12:15 PM	CLOSING FORUM – Update on the AIM Act and State of the Refrigeration Industry – Presented by Miguel Garrido, Tristam Coffin,	Panzacola F3-4
		Keilly Witman – All Attendees Welcome!	
2:30 PM		Conference Adjourns	



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TECHNICAL PRESENTATION AWARD WINNERS

URIAH DONALDSON

IIAR is pleased to announce that the winner of our 2023
Award for Presentation Excellence is Uriah Donaldson,
Resource Compliance, for his outstanding description of "The
Cost of Non-Compliance: An Objective Analysis of Federal
EPA's Enforcement at Ammonia Facilities" at the 2023 IIAR
Annual Conference in Long Beach, CA.

The IIAR Award for Presentation Excellence, previously IIAR's "Andy Ammonia Award," was created to acknowledge the crucial role that education and information-sharing plays within the refrigeration industry, and to provide acknowledgement of the expertise that is generously shared by our volunteers.

The award is based on feedback provided by conference attendees, and this year's scoring was very close between a number of top-notch presentations. Congratulations, Uriah!



GABRIEL GUTTIERREZ



IIAR is pleased to announce that the winner of our 2023 IIAR is pleased to announce that the winner of our 2023 Award for Presentation Excellence for a presentation in the Spanish language is Luís Gabriel Gutierrez Padilla for his outstanding description of "Integridad Mecánica en Evaporadores de Refrigeración" (Mechanical Integrity of Refrigeration Evaporators) at the 2023 IIAR Annual Conference in Long Beach, CA.

The IIAR Award for Presentation Excellence, previously IIAR's "Andy Ammonia Award," was created to acknowledge the crucial role that education and information-sharing plays within the refrigeration industry, and to provide acknowledgement of the expertise that is generously shared by our volunteers. Our Spanish-

speaking colleagues are specially recognized for their significant efforts to relay important concepts and information to the Spanish-speaking professionals in our industry.

The award is based on feedback provided by conference attendees, and this year's scoring was very close between a number of top-notch presentations. Congratulations, Gabriel!

2024 HAR NATURAL REFRIGERATION CONFERENCE & HEAVY EQUIPMENT EXPO

NETWORKING EVENTS AT THE 2024

The 2024 IIAR Natural Refrigeration Conference & Heavy Equipment Expo is the largest event in the USA, exclusively dedicated to the natural refrigeration industry! We provide an unrivaled opportunity for professionals in the natural refrigeration industry to connect, obtain professional education, expand their knowledge, and learn about the industry's latest innovations and products. This is the perfect chance to network and collaborate with some of the greatest minds in the natural refrigeration community.

IIAR BOARD & COMMITTEE MEMBERS VIP DINNER

BONAR

Saturday, March 23, 2024 | 6:00 PM - 8:30 PM

By invitation only. IIAR and our sponsor, Bonar Engineering, want to thank our IIAR Committee Chairs, Committees members, Board of Directors, and other VIP and International invitees who devote much time and effort to support IIAR and our mission. After spending their time in meetings on Saturday, this group will be hosted at a fantastic venue in Disney Springs. Transportation will be provided for these special, hard-working and contributing guests from the Rosen Shingle Creek to the venue. Business Casual Attire.

NRF TOURNAMENTS FOLLOWED BY AWARDS CEREMONY & VIP RECEPTION

Sunday, March 24, 2024

8:00 AM – Golf Tournament

10:00 AM – Pickle Ball & Cornhole Tournaments

3:00 PM – NRF Awards Ceremony & VIP Reception

Additional Registration Required. Sunday, March 24, 2024, marks the beginning of the 2024 IIAR Conference. On this day, we will have three tournaments at the Rosen Shingle Creek Resort in Orlando, FL. The VIP Reception will now take place immediately after ALL the NRF tournaments in the afternoon. This will be the main event for the NRF Fun Day at the Rosen Shingle Creek, Florida! All conference attendees can register for an additional fee to these tournaments and support the Natural Refrigeration Foundation's mission while ensuring a day full of camaraderie and fun!

SPONSORED BY: NRF FUN DAY SPONSORS (SEE PAGE 42 FOR LIST)

DIVERSITY IN NATURAL REFRIGERATION RECEPTION

SPONSORED BY:



Sunday, March 24, 2024 | 5:00 PM - 5:30 PM

Full Conference Registrants of Diverse Backgrounds. Our industry becomes stronger through the people who contribute their daily efforts to making it better. By fostering an inclusive environment that welcomes individuals from all walks of life, we unlock a wealth of unique perspectives, experiences, and ideas that drive innovation and propel our industry forward. For this reason, the IIAR Women in Natural Refrigeration reception is expanding to celebrate all diversity. Therefore, please join us at this reception celebrating all diversity within our industry.

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IIAR CONFERENCE

FIRST TIMER'S RECEPTION

Sunday, March 24, 2024 | 5:30 PM - 6:00 PM

First time, Full Conference Registrants Only. The First Timer's reception hosts all full conference attendees who are attending the IIAR Conference for the first time. This event will precede the Chairman's Reception and will be held in the same area.

SPONSORED BY:



CHAIRMAN'S RECEPTION

Sunday, March 24, 2024 | 6:00 PM - 7:00 PM

ALL FULL CONFERENCE REGISTERED ATTENDEES ARE INVITED!

The Chairman's Reception is the official opening of the annual IIAR conference! This event includes hors-d'œuvres and beverages.

MYCOM

SPONSORED BY:

MONDAY NIGHT EVENT AT ANDRETTI INDOOR KARTING & GAMES

Monday, March 25, 2024 | 6:30 PM - 9:30 PM

All Full Conference and "Monday Only" registered attendees invited. The flagship event at IIAR's annual conference! Bring your competitive spirit to this year's Monday night event at Andretti Indoor Karting & Games. Come prepared to race fellow attendees with the indoor electric go-karts, experience the new 7D Experience on the Hyperdeck, and enjoy some drinks and refreshments. The full arcade and laser tag arena will also be open for all to enjoy. It's sure to be an unforgettable experience, so we hope all can join us.



REQUIRED LIABILITY RELEASE FORM

EXHIBITOR'S RECEPTION

Tuesday, March 26, 2024 | Time: 6:00 PM - 7:00 PM

All Full Conference and "Tuesday Only" registered attendees invited. This is a wonderful time to meet with exhibitors, develop your professional network and enjoy some relaxed time on the last evening of the conference! This reception will take place inside exhibit hall and includes hors-d'œuvres and beverages.

IIAR STUDENT DAY

Wednesday, March 27, 2024 7:30 AM - 12:15 PM

Full Conference and "Wednesday Only" registered attendees are invited. To introduce new talent to the industry, undergraduate university, technical college, or trade school students interested in learning about the natural refrigeration industry, (with a current, university-issued



student ID) can receive complimentary registration to our entire annual conference program. This year our Student Day will start with a complimentary breakfast, offer a "State of the Industry" panel, and give students the opportunity to get out on the exhibit floor and interact with companies who have hiring opportunities.

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IIAR CONFERENCE APP

The IIAR conference app is a one stop shop for all the conference information you need. We encourage all attendees to download the app in order to communicate directly with other attendees and to receive updates and alerts regarding important information on the event.

- Download the IIAR App
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- Navigate to current events
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- Find general conference information
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Use the QR scanner to redeem PDH credits

If you have any questions on how to sign on to the conference app, please email IIAR at info@iiar.org

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TECHNICAL PAPER DOWNLOADS

IIAR 2024 Technical Papers are available for download to all registered conference attendees. You may download them directly through the conference app by clicking on the corresponding session in your schedule. There will be a document download link available. Or you may download them after the conference by going to: www.iiar.org > Events.

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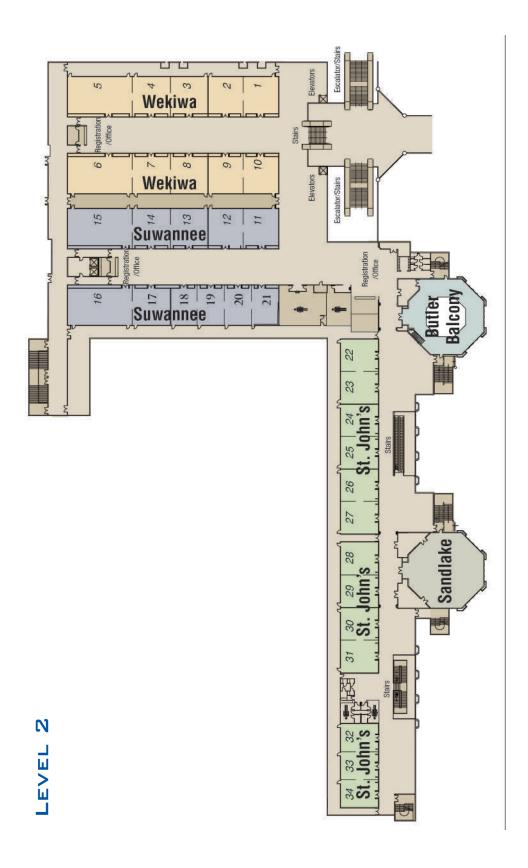
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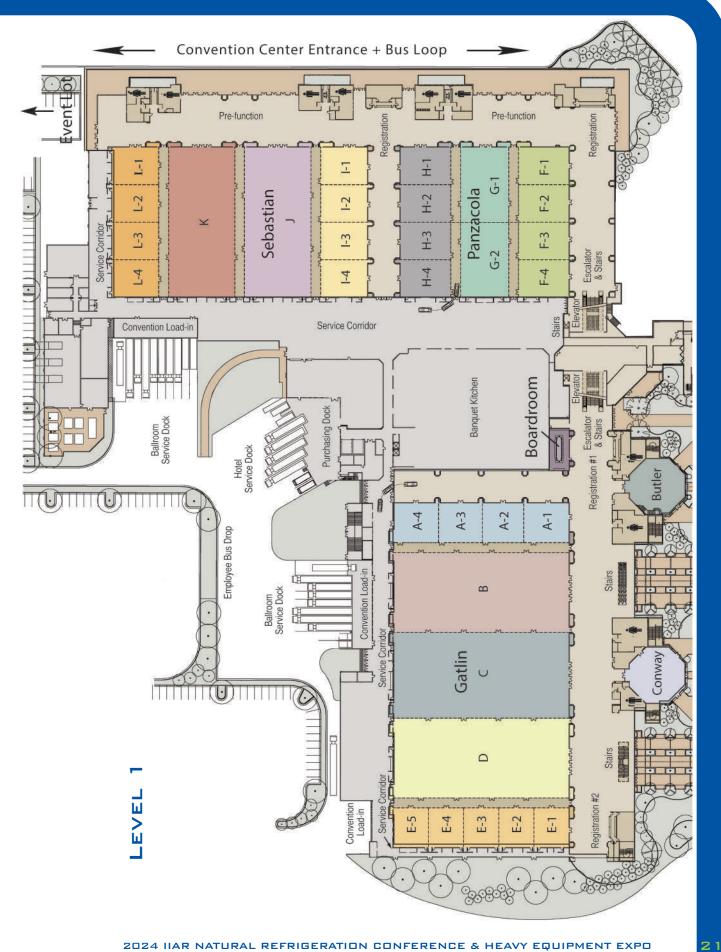
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CONFERENCE MEETING ROOMS



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Join IIAR to Access

If you join the IIAR community, you gain access to the eLibrary, our membership directory, free access to IIAR membership webinars, discounts at the IIAR store, and much more!



BENEFIT:

NATURAL REFRIGERATION DIRECTORY:

The Natural Refrigeration Directory is a listing, including contact information, of IIAR verified group company members who are experts in the use of Natural Refrigeration.

If you are an IIAR group member and wish to have your company, company description, and contact information listed in this directory, scan the QR code below to submit your information.



2023-2024 IIAR Membership Rate Structure

Group Company Membership (Best Value!)

Individuals who are employed by the same company that would like to benefit from IIAR's offerings can join collectively under a Group Company Membership. Group members may be employed at the same facility or at an additional facility that is not an autonomous division or wholly owned subsidiary.

\$2,000 - 2 to 5 individuals

\$4,000 - 6 to 10 individuals

\$6,000 - 11 to 15 individuals

\$8,000 - 16 to 20 individuals

\$10.000 - 21 to 25 individuals

\$100 for each individual above 25

Individual Company Membership

Individual Company membership is a single membership where you, as the member, are registered under your company of employment.

\$1,000 - per individual

Special Membership

Special Membership Categories include Academic, Retired, Affiliate and Student. Structured group discounts do not apply to special membership categories.

\$100 - per individual

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All Membership Benefits!

Continuing IIAR Member Benefits

- Access to the IIAR eLibrary, which includes hundreds of peer reviewed technical papers, IIAR Standards, access to superseded IIAR Standards and Bulletins and the Ammonia Data Book.
- Significantly discounted rates on attendance at the IIAR Expo, **IIAR Publications and Guidelines, and special programs.**
- IIAR Communications including Technical, Regulatory & Industry updates
- eReader access to all IIAR Standards
- Access to (PDH Credits apply):
 - the online IIAR Education Webinars
 - 1 IIAR Academy of Natural Refrigerants certificate course per member - member's choice
 - 1 IIAR Training Video Series per member member's choice
 - IIAR Conference Technical Content online

If you have questions regarding the membership structure please contact us at membership@iiar.org





Member **Categories**

Individual and Group

Consultant – Principle business is providing advice or services for cooling and refrigeration

Contractor – Principle business is installation/service/maintenance of refrigeration systems used for cooling, refrigeration, or heating

Engineer – Principle business is design of refrigeration systems used for cooling, refrigeration, or heating

End User – Company or facility (owner/operator) that is using a refrigeration system for cooling, refrigeration, or heating

Manufacturer - Manufacturers of equipment/components used in a refrigeration system used for cooling, refrigeration, or heating

Manufacturer's Representative – Principle business is the marketing/sales of refrigeration equipment used for cooling, refrigeration, or heating

Specialty Services Provider - Principle business is providing a service or product not aligned with any of the other categories

Training/Education – Principle business is training or education on cooling and refrigeration

Special Membership Categories

Academic - Instructors, Professors, Researchers, etc.

Affiliate - Code Groups, Insurance Companies/Agencies, Government & Regulatory Agencies, Active Military

Retired – A person no longer gainfully employed in the industry on a full-time basis

Student – A person currently enrolled full-time in a university, technical college or trade school and by virtue of their educational endeavors is interested in a career within the industry providing and supporting refrigeration systems for cooling, freezing, and heating using natural refrigerants.

Wholesaler - Wholesaler or supplier of ammonia or other type of refrigerant

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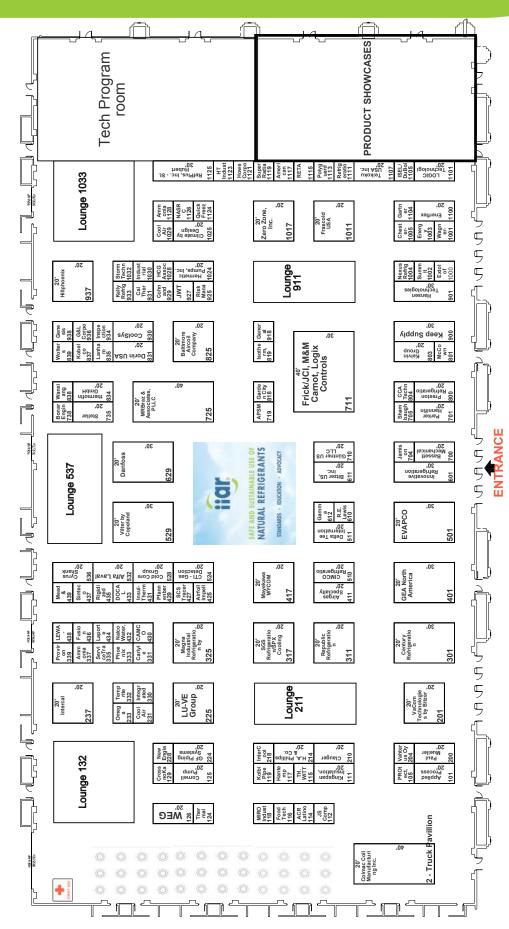
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EXHIBIT HALL FLOORPLAN



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ACR Latinoamerica Magazine114

The number 1 magazine for Automation, Air Conditioning and Refrigeration in Latin America.

Airfoil Impellers Corporation425

Cast Aluminum fan blades, machine room exhaust fans, product cooler fans, blast freeze fans, and general ventilation fans.

Airgas Specialty Products411

Airgas Specialty Products is the only nationwide supplier of ammonia products, pump-outs, field service, safety video, safety training, and Cold Flow Sampler (for determining water in ammonia).

Alfa Laval is the leading innovator in compact plate and frame heat exchangers for refrigeration and heat pump applications. We are committed to collaborating with the refrigeration industry to offer specialized products to meet demands for sustainability, efficiency, and reliability. Products include semi-welded, gasketed, brazed, and fusion-bonded plate and frame heat exchangers designed for all applications with a focus on low GWP natural refrigerants such as ammonia and CO2.

American Refrigeration1117

American Refrigeration provides Construction, Service, Parts, and Engineering for a wide range of Industrial Refrigeration projects and customers.

Ammonia Refrigeration Training and Industry Compliance Services . . . 1128

ARTIC Services is a training and compliance service company.

Since 1981, APCCO has engineered success for our company, employees, customers, suppliers, environment and country. Our trained experts have unparalleled depth of experience and expertise in system design, installation, and aftermarket maintenance and service of industrial refrigeration systems.

APSM offers PSM software that utilizes a robust task management system to keep you on top of all the tasks to meet your PSM compliance goals.

ASTI337

The Ammonia Safety and Training Institute (ASTI) is a non-profit 501(c)3 tax exempt organization dedicated to "preventing ammonia emergencies or stopping them small." Our training focus is on industry, public safety and the government, which we consider to be the "Tripod." ASTI works closely with IIAR to deliver Safety Day training throughout the U.S., Latin America, Canada, and Australia.

Baltimore Aircoil Company825

With over 80 years of industry-leading innovation and experience, BAC creates cutting-edge cooling equipment for the HVAC, Industrial, and Refrigeration marketplaces. We solve customers' unique needs with our expertise and wide range of high-performance systems. BAC leverages the power of evaporative cooling by optimizing the balance of water and energy, but the true BAC difference lies in our absolute commitment to creating sustainable solutions and delivering value to our customers.

Bassett Mechanical 700

Bassett Mechanical provides complete design, engineering, fabrication, installation, and preventative maintenance service solutions for all our customer's industrial refrigeration, HVAC, plumbing, controls, metal fabricating, and service needs. Our 268,000 sq. ft. manufacturing facility is headquartered in Kaukauna, Wisconsin, with additional locations in Madison, Milwaukee, and Wausau, Wisconsin, and Rochester, Minnesota.

Bitzer US, Inc./VaCom Technologies 201 & 611

BITZER is a leading manufacturer of Ammonia Screw Compressors and semi-hermetic reciprocating CO2 Compressors for both subcritical and trans critical applications. BITZER also manufactures high efficiency, low charge Ammonia Compressor Packages at its Oakwood, Georgia factory.

Bonar Engineering and Construction Co. ...738

The Design/Build Refrigeration Company.

Cal Therm Insulation 931

Cal-therm Inc. is a full service mechanical insulation contractor based in Southern California. For the past 40 years our company has serviced clients in the Refrigeration Food and Beverage production, and Chemical segments. We continually strive to exceed the clients expectations while delivering optimum energy efficiency, and quality at competitive price.

California Controlled Atmosphere dba CCA Technologies804

The patented technology in the Tattle™ pressure relief vent indicator offers a simple yet innovative solution to quickly identify when a pressure relief valve (PRV) has been activated. It does this by providing either a visual indication or an electronic signal of what can be an intermittent event. The Tattle™ allows the system operator a quick, reliable, and cost effective solution to a problem that could go undetected for a significant amount of time.

CAMCO Lubricant 430

CAMCO Lubricants has been the leading manufacturer and supplier of industrial refrigeration and food grade lubricants for over 30 years. We have been trusted by contractors, distributors, and end users for decades. CAMCO 717 series of ammonia refrigeration oils has been nationally know for years. The sales staff at CAMCO has a combined 45 years of industrial refrigeration field experience. Our engineering staff is known worldwide for their expertise in chemical engineering and considered some of the best in the industry. Our engineers are well known to equipment manufacturers to provide the best product for the application. CAMCO means quality, reliability, performance and efficiency. Discover the CAMCO difference today.

Carlyle Compressor....331

Carlyle Compressor is a world leader in compressor technology, manufacturing a broad range of open drive and semihermetic Reciprocating and Screw compressors for use in high-, medium- and low-temperature applications in both single and parallel combinations. For more information, visit www.CarlyleCompressor.com

Century Refrigeration . . . 301

Century Refrigeration is the leader in Comdustrial™ Refrigeration Systems: The ideal balance of commercial and industrial refrigeration markets. We offer flexibility in design surrounded by durability in construction.

Chester-Jensen1005

Chester-Jensen manufactures air agitated ice builders, instant chillers, plate heat exchangers and other heat transfer equipment.

CIMCO Refrigeration

Inc......510 Recognized as a leader in environmental sustainability, CIMCO Refrigeration is the largest industrial refrigeration contractor in North America and the largest vendor for most major refrigeration suppliers in the industry, with more than 7,000 customers, 1,500 active service contracts, and 1,200 employees dedicated to the art and science of refrigeration. As part of Toromont, CIMCO is also the only industrial refrigeration company to be publicly traded on the Toronto Stock Exchange. We've built half of the world's ice rinks, and have installed more than \$3 billion worth of projects over the past decade. In addition to our broad geographic reach—with offices, and a network of account managers and technicians, across Canada and the United States we have a \$3-million-dollar critical parts inventory, allowing our team to simultaneously source parts worldwide while mechanics are on site, which

saves our customers time and money.

Founded in 1971, Clauger is a familyowned company with expertise in innovative, sustainable solutions for industrial refrigeration systems and air treatment. We offer engineering, manufacturing, installation, parts and service for our clients at every stage of their project. Regardless of the project's size, location, nature and complexity, we can adapt our teams and solutions to meet your specific needs. Clauger delivers customized solutions based on the unique needs of each client.

Climate by Design International.....1025

Climate by Design International (CDI) applies, designs and manufactures critical process rooftop air handlers and desiccant based condensation

control units; unit casings construction options include wipe down or wash down duty with drain pans throughout the unit. CDI's optional patented NTM (NoThruMetal) design casing can meet the demands of low temperature environments without condensing.

Cohn and Gregory 929

Cohn & Gregory is a trusted supplier of pipe, valves, and fittings used in the industrial refrigeration industry. Some of our product offering unique to the refrigeration industry includes pipe, fittings, flanges, valves, hangers, gaskets, and other specialty items. We stock numerous material grades in carbon, low-temp, and stainless steel. Material Test Reports (MTRs) and other certifications are available. C&G has the exceptional service and stock to furnish your project material needs.

Cold Core Group528

Cold Core Group is the parent company of All Temp Refrigeration and Summit Refrigeration, both of which are full-service refrigeration contractors specializing in industrial refrigeration.

Colmac Coil Manufacturing Inc.....2 - Truck Pavillion

Colmac Coil provides customers worldwide with innovative heat exchangers and heat transfer solutions for industrial refrigeration, HVAC, power generation, and gas compression applications. Colmac Coil manufactures A+ Series® Air Coolers, HygenAir™ Hygienic Air Handlers, custom evaporators, unit coolers, blast freezers, tube bundles, fluid coolers, condensers, adiabatic coolers, and hydrocoolers. Manufacturing facilities in both Washington State and in Illinois.

Cool Air Inc. is a leading provider of highquality, reliable, and affordable ammonia leak detection systems. With over 40 years of experience, they offer robust

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detectors designed for various industrial environments. Their commitment to quality is evident in their long-lasting sensors and nearly maintenance-free units. Cool Air Incorporated emphasizes customer service, offering technical support for installation and maintenance. They ensure prompt communication, ready to answer your questions.

Cool Air Mechanical....1029

Cool Air Mechanical, Inc. is your clear choice for an industrial design build contractor. Our success is based off our relationships. We look forward to starting ours today! Cool Air Mechanical, Inc. has been committed to excellence in service and installation since 1965 in the ammonia and HVAC industry. From simple remodeling to new construction, we have expertise that is second to none for system design, installation, and service. Our service department stands ready to analyze, trouble-shoot, and repair system problems. Our engineers will improve system design by using fundamental engineering to benefit our customer's expectations through energy savings and prolonging equipment life. Our master craftsmen will implement the recommended design and our service department will provide value-added maintenance and/ or service 24/7, 365 days a year.

CoolSys......930

CoolSys provides a premier spectrum of engineering, installation, service and energy reduction solutions for mission-critical refrigeration and HVAC systems to facilities throughout North America delivering best-in-class service and exceptional value.

Copeland Industrial LP . . 529

Industrial refrigeration is at an inflection point. As operators look for safe and sustainable refrigerant alternatives to ammonia and hydrofluorocarbons (HFCs), the current generation of CO2 transcritical booster technology has not been up to the task. Until now. Vilter is well-known for its innovations in industrial refrigeration. Our next first will be the launch of the industry's only purpose-built industrial CO2 transcritical compression unit. Be among the first to see this robust new technology in booth 411.

Cornell Pump Company125

Cornell Pump presents the latest innovations in refrigerant pumps including our Arctic King® hermitic pumps with remote monitor, and reliable long-lived CB series. Cornell also manufactures high quality glycol and chiller pumps. Since 1956 in USA.

CrossnoKaye129

CrossnoKaye is on a mission to make industrial facilities smart, safe, and efficient by bringing the software and Al revolution to heavy industries. We are deploying the ATLAS Platform: an intelligent Cloud Control software that safely and reliably operates your site's existing hardware and equipment and can scale across your entire portfolio. Imagine a "digital operator" that can study a unique electrical bill, forecast the future weather and energy rates, then compute and automatically implement the exact optimal settings for your entire system every second, 24/7/365. That's ATLAS.

CTI Gas Detection Specialists524

CTI is a leading manufacturer of gas detection equipment for industrial facilities. CTI specializes in the detection of Ammonia and Carbon Dioxide, but also provides excellent detectors for most refrigerants including R22, R134a, R404a, R507a, R407c, and Propane.

Danfoss..................629

Food safety is essential in modern industrial refrigeration facilities. Danfoss offers innovative components and custom-engineered control solutions to deliver complete, highly efficient, and reliable refrigeration systems optimized to ensure you achieve your food safety benchmarks and reduce food waste. At the IIAR **Natural Refrigeration Conference** & Heavy Equipment Expo, we're highlighting innovative solutions that play an important role in ensuring the perfect conditions for your food production in safe temperature controlled environments, like the semi-welded heat exchanger, IPS 8 air purger, custom-engineered power and control automation systems, like motor starters and complete PLC systems, and ready-off-the-shelf evaporator controllers, vessel controllers, and condenser controllers.

Delta Tee manufactures heat exchangers, pressure vessels and systems, complete capabilities in designing and manufacturing shell and tube heat exchangers for refrigeration, air conditioning, chem-process, food and other applications.

Dorin USA......831

Dorin USA offers a complete and diversified range of compressors for refrigeration and air conditioning systems. Our product offering consists of over 600 models of open type, and semi-hermetic compressors, designed and built to be used with HCFCs or HFCs, including natural refrigerants such as hydrocarbons (HC) and especially carbon dioxide (CO2). The product range is completed by two-stage compressors and a wide range of accessories.

Enerflex energy

Systems1100

Enerflex is a premier integrated global provider of energy infrastructure and energy transition solutions, delivering natural gas processing, compression, power generation, refrigeration, cryogenic, and produced water solutions. Enerflex has full capacity to provide in house expertise for engineering, design, supply, packaging, assembly in the field, commissioning and ongoing maintenance for any project big or small, from inception to execution and beyond.

Energy Recovery1003

Energy Recovery, Inc.'s (NASDAQ:ERII) pressure exchanger (PX) is a globally trusted technology, providing significant savings and operational reliability. In 2021, Energy Recovery saved 30 TWh in electricity for customers with over 30,000 PX units deployed worldwide. Our PXG enables the energy-efficient transition to C02 system for commercial and industrial refrigeration and heat pump.

EVAPCO501

EVAPCO is a worldwide leader in the design and manufacture of industrial refrigeration systems and components. A broad line of AHRI certified air unit evaporators, evaporative condensers, air-cooled condensers and CO2 gas coolers, critical process air systems, low charge packaged NH3 systems, ASME pressure vessels and much more. With a commitment to research and development, EVAPCO has the most advanced products in the industry - Tomorrow's Technology.... Available Today!

Extol of Ohio Inc. 1000

Extol of Ohio Inc is a leader in fabrication of closed cellular ridged insulation systems for Refrigeration, Chilled water, Steam, Process and Oil and Gas markets. We supply complete insulation systems that included

products to fit, pipes, supports, vessels, valves and fittings to prevent heat gain and to prevent condensation. We offer a complete line of accessory items. Stop by our booth #1000 to see what is new to the industry.

Fb Latam SpA.....237

Intercal is a manufacturer in Chile of forced air heat exchangers for refrigerant freon, ammonia, glycol and CO2.

FoodTech Design Group is a dynamic and forward-thinking engineering firm with profound understanding of the industry's evolution and a passion for innovation, we are dedicated to transforming the way food is produced. Whether you need assistance with processing line layouts, mechanical designs, refrigeration systems, comprehensive project management services, or cutting-edge automation solutions, FoodTech Design Group is your trusted partner.

Frascold USA1011

Frascold is a global leader in refrigeration and HVAC compressor technology. Headquartered in Italy with subsidiaries in the US, India and China, Frascold has grown into a worldwide brand, known for premier products and service. Frascold has multiple inventory locations throughout the United States.

Frick Industrial Refrigeration711

FRICK® is the Leader in Industrial Refrigeration. Through our unrivaled expertise, we provide world-class refrigeration technology that is reliably cold. We offer a full line of equipment for Food and Beverage applications including: Compressor Packages, Packaged Systems, Condensers, Evaporators, Heat Exchangers, Hygienic Air Handlers, Heat Pumps, Controls, Vessels and replacement parts for these products.

FUSION is a full custom integrator of industrial refrigeration systems into factory built modular equipment rooms (MER™). FUSION designs, engineers, and fabricates large equipment rooms for distributed NH3 and C02 systems. FUSION is a wholly owned subsidiary of Miller Industries, LLC. Miller Industries, LLC is a family owned and operated company in business since 2014.

G&L Corporation936

G&L has 71 years of combined experience in installing, servicing, and maintaining ammonia, freon, HVAC, and secondary coolant systems. G&L corporation succeeds in the design build approach for large and small projects for industrial, commercial, warehousing, cold storage, food process and institutional facilities. G&L partners with the customer through initial phases of design to the final commissioning of the project. However, the partnership does not end there, as G&L offers planned maintenance agreements and 24/7 emergency service to satisfy the needs of any customer.

Gamma Graphics Services (GGS).....612

Gamma Graphics Services (GGS) provides Non-Destructive Testing (NDT) evaluations on ammonia refrigeration piping and vessels. We test all piping with Radiometric Profiling (RP), a rapid-scanning technology that is safe for your staff and your system. Piping is tested at rate of 150 locations per day 'as is' without removing or cutting holes in jacketing or insulation. This testing method poses zero radiation exposure liability so we can test your system during normal business hours without interruption.

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Garden City Ammonia Program (GCAP, LLC)....818

Garden City Ammonia Program is the world's largest technical school involved in training over 3,000 operators, technicians, engineers, and managers yearly. We have the largest hands-on labs in the industry. GCAP specializes in industrial ammonia refrigeration, industrial CO2 refrigeration, steam boilers and PSM/RMP compliance training and services. GCAP has over 14,500 alumni's.

Gartner Refrigeration ...1104

Since 1945 Gartner Refrigeration has provided engineering, design, installation, and service for industrial refrigeration users across the United States. It is why we believe that Experience makes all the difference.

GEA North America.....401

GEA North America provides industrial refrigeration & heating solutions featuring screw and reciprocating compressor packages spanning 164 to 6083 CFM. each paired with the industry-leading GEA Omni control panel. GEA's portfolio also includes chillers, heat pumps and custom-engineered systems. To support our customers' continued success, GEA's robust service offerings include preventative & predictive maintenance and ongoing service agreements, as well as compressor rebuilds, on-site technical expertise, control-panel retrofits, original spare parts, and training. Learn more at gea.com/heating-refrigeration.

General Refrigeration Company918

With nearly 50 years of experience in the industry, we have the expertise and experience to support you from the engineering and design stage to construction and install, and through to the repair and maintenance stage. General Refrigeration offers a wide array of 3D Modeling services as well as over 40,000 sq foot of space dedicated to prefabrication

work to allow us to minimize the time onsite and interruptions to your operations. Our focused attention to your specific needs allows us to provide customized solutions, while maintaining the highest levels of quality and safety standards for our customers.

Genesis International ...938

Genesis International has been in the Leak Refrigerant monitoring detection system game for over 30 years.

GF Piping Systems224

GF Piping Systems is a leading supplier of thermoplastic piping systems and instrumentation for the safe and reliable transport of liquids for industrial process control. These systems feature non-corroding, energy-efficient, maintenance-free performance, offering an excellent alternative to the frequent replacement costs of metal piping systems, which corrode over time and are unwieldy in overhead installations. GF's COOL-FIT® PE Plus pre-insulated polyethylene piping system provides maximum cooling performance for glycol, brine and chilled water applications.

Güntner US LLC......710

Over 90 years of leading engineering solutions in heating and cooling systems; offering a wide variety of air coolers, dry coolers, evaporative condensers, gas coolers, controls, accessories & spare parts for commercial refrigeration, energy & power, HVAC, industrial process, industrial refrigeration & IT cooling applications. We power everything from keeping food fresh to providing comfortable indoor temperatures in office buildings and enabling renewable energy production.

H.A. Phillips & Co.214

Phillips manufactures liquid level controls, valves, Level Eye sight glasses, injectors, ASME pressure vessels, gas-powered and pumped recirculation systems, PHE chillers, the Anhydrator system cleaner and family of PUR air purgers. Phillips carries an extensive stock of Danfoss IR products.

Hansen Technologies Corporation901

Hansen offers a complete line of shutoff valves, control valves, relief valves, level controls, air purgers, pumps and other technical equipment. All are designed specifically for industrial refrigeration systems. Come see our new and most complete MVP Multi-Valve Platform product line (now available up to 4" port size) and a new-to-industry innovation in Pressure Relief Valve monitoring.

Hantemp Controls 117

HANTEMP Controls manufactures a broad line of Stainless Steel refrigeration-duty Controlled Ball Valves, Pressure Regulators, Solenoid Valves, Float Switches, Flange Unions, and Service Valves at prices comparable to ordinary steel.

HCG Associates 1028

With offices throughout the United States, HCG Associates has been providing professional ammonia compliance and PSM consulting advice since 2004. Provide professional safety, environmental, and technical hazardous materials compliance advice in an efficient and cost-effective manner, so as to add value to our clients and the functions they perform. Our mission is to understand, educate, and build strong relationships with our clients through the delivery of customized solutions that adapt to your everchanging needs. This allows our partners to alleviate the burdensome aspects of compliance, and focus on their core business and mission. Ultimately, HCG Associates will provide both stability and professionalism to your PSM program. Ultimately, HCG Associates will provide both stability and professionalism to your PSM program.

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Magna Industrial Refrigeration

by Heatcraft325

MAGNA Industrial Refrigeration is the latest addition of large-capacity cold storage and food processing equipment solutions for the industrial refrigeration market from Heatcraft Refrigeration Products. We pride ourselves on having the most complete industrial refrigeration product lineup, providing unparalleled design, startup and service support and industry leading lead times.

Hermetic Pumps, Inc....1024

Hermetic has been dedicated to the development and production of hermetically sealed pumps. Based on our experience in chemical, petrochemical and process industry we designed canned motor pumps specifically for refrigerant services.

Hillphoenix specializes in the design and manufacturing of halocarbon, carbon dioxide transcritical and secondary refrigeration systems for cold storage, industrial refrigeration, and ice rink applications.

Howe Corporation.....1121

Howe Corporation is a 110-year old manufacturing company specializing in flake ice machines for food retail and industrial processing applications. In 2009 we developed CO2 compatible ice flakers for the supermarket industry. Since that time, we have expanded our units to include models for Direct expansion (sub & trans-critical) as well as expanding our production capacities. Our natural refrigerant lineup also includes a large selection of ammonia machines for light and full industrial applications. We continue to monitor the under 150 GWP market to adjust to needs of our customers and the industry. Howe also offers ice storage bins compatible with other ice machines.

HT Industrial Ltd1123

Since 1967 HT Industrial has been a safe pair of hands fabricating shell-and-tube exchangers and ASME vessels. We take pride in our quick delivery, high quality, and sound engineering.

Serving as Your Compliance Connection for over 30 years. PSM/ RMP, Mechanical Integrity Inspections, PSM Audits, PHAs, Training; Hazmat, Refrigeration Operator, Incident Command, Confined Space and more!

Innovative Refrigeration Systems, Inc. 601

Innovative Refrigeration Systems specialize in customized turnkey industrial refrigeration systems. We design and build computer-controlled ammonia refrigeration, large tonnage Freon systems and large CO2 systems for the cold storage and food process markets.

Inspection Compression LLC934

Inspection Compression is a paperless inspection system built to manage your OSHA PSM/CalARP compliance and maintenance program. Track inspections, deficiencies, other compliance items, and more on one online dashboard.

Insul-Therm Intl 431

Insul-Therm is a leader in fabricated insulation systems. We offer a full line of insulation products, and accessories for high and low temperature applications including; polyiso, XPS, Foamglas, and phenolic insulation. In 1982, Insul-Therm was formed with the goal of producing and distributing high quality insulation products for the industrial and commercial markets. With outstanding quality and service we have now become the largest insulation fabricator in the Western United States.

We design and build custom-made UL control panels and systems for new and existing industrial refrigeration facilities. What sets us apart from the competition; our control systems work. No exceptions.

InterCool USA, LLC 218

Industrial Refigeration Design-Build Contractor with self perform capabilities including: Engineering, Construction, Project Management, Service and parts.

ISEL/DuBois Chemicals.....1105

International Specialty Engineered Lubricants is a leading independent manufacturer of refrigeration and specialty lubricants. We formulate, blend and package lubricants at our state-of-the-art manufacturing facility in Jacksonville, Florida. The NXT lubricant products are manufactured by Isel. We are driven to provide customers with the most advanced fluids at the best value, all supported by unmatched customer service. It's why companies around the globe trust us to deliver the refrigeration lubricants they depend on every day.

Isotherm, INC. 819

Custom manufacturer of heat exchangers and pressure vessels with innovative design. We serve various industries, such as industrial ammonia refrigeration, food & beverage and chemical process. We hold ASME "U" and "R" stamps.

Jamison Door Company704

Manufacturers of insulated doors for all cold storage applications: Swinging, Horizontal Sliding, Overhead, Vertical Sliding; Manual, and Power Doors for Cooler and Freezer applications. Products include high performance Jamison Cold Storage Doors, HCR Air Doors, Sound Reduction and Specialty Doors, Jamotuf Architectural Style Doors, and HPD High Performance Doors.

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Joe White Tank927

JWT designs and manufactures industrial refrigeration systems and vessels. Our standard catalog of products includes recirculator systems, chiller skids, receivers, accumulators, surge drums, economizers, intercoolers, oil separators, thermosyphon receivers, controlled pressure receivers, level columns, liquid make up stations, and oil pots. In addition to our standard products, JWT offers engineering services to help design and build custom solutions.

JS Compliance LLC 112

JS Compliance (JSC) is a team of Process Safety and Risk Management Professionals with over 25 years' experience in OSHA 1910.119 Process Safety Management and EPA 40 CFR Part 68 Risk Management Plans. Our services include Program and Procedure Development, Consulting and Implementation of PSM and RMP Elements including HAZOP Process Hazard Analysis, Compliance Audits, Gap Analysis and Mechanical Integrity Inspections and Testing.

Keep Supply 900

Keep Supply is a resourceful distributor of heavy commercial and industrial refrigeration parts, equipment, and other MRO supplies. No matter the need, we keep you refrigerated, supplied, and satisfied because of our people and our promise.

Kelly Refrigeration Services933

We are a team of dedicated professionals in refrigeration, food process and mechanical contracting. Our mission is to provide complete customer and employee satisfaction through uncompromised integrity and excellence in engineering, installation, service and training. We are committed to exceeding expectations by providing proven and innovative solutions for customer needs today.

Kelvin Group803

Kelvin Group, a leader of industrial/ commercial mission-critical mechanical services, process safety management and environmental compliance, provides turnkey solutions including design/installation, ongoing service and preventative maintenance of worldclass mechanical systems.

Kingspan Insulation, LLC111

Kingspan Insulation is a leading manufacturer of polyisocyanurate (a modified polyurethane) including innovative and cost-saving pipe and equipment insulation and sheet/block insulation.

Kobelco Compressors America, Inc......837

Established in 1915, Kobelco stands as a pioneer and global leader in advanced compressor technology, underpinned by an unwavering commitment to engineering excellence and innovation. With sustainability at its core, Kobelco channels its extensive expertise into crafting compressors that are not only superior in performance but also environmentally friendly, aiming to reduce installation costs and enhance operational efficiency. Kobelco specializes in three primary gas compressors: rotary screw (API 619), reciprocating (API 618), and centrifugal (API 617). Each solution is meticulously custom engineered to guarantee optimal performance and a commendable return on investment. From proposal to project execution, Kobelco assumes end-toend responsibility, fostering a smooth transition from installation to post-sales service. Customers are assured of continuous support from a vast network of global manufacturing, sales, and service centers, all backed by a century's worth of accumulated knowledge.

Kolbi Pipe Marker Co. . . . 119

For 50 years Kolbi Pipe Marker Co. has been a leading manufacturer of mechanical identification. Kolbi has

expertise in Ammonia and all types of cold storage identification. Our ability to manufacture to your project's specific needs and lead-times that are unmatched in the industry will guarantee your project is completed on-time.

Lanham Insulation Inc. . .835

For more than 30 years, Lanham Insulations has provided unparalleled quality and reliability in mechanical insulation services. From inception, our expertise and pursuit of excellence have earned us the trust and confidence of our customers. The Lanham team of industry-leading insulation profesionals focuses exclusively on the complete success of each project, to ensure the highest levels of safety, quality, and efficiency. Our fundamental mission is to deliver complete satisfaction with superior quality and value.

Laporte Engineering434

Laporte Consultants has significantly expanded its specialized refrigeration engineering services across North America over the past five years. With expertise covering all facets of commercial and industrial refrigeration, our team offers specialized consulting services to clients throughout North America. Our project portfolio spans from technical support to overseeing the design and construction management of large, specialized process refrigeration systems and refrigerated facilities.

LEWA America, Inc. 438

Nikkiso began production of canned motor pumps in 1956, making us one of the first companies to produce canned motor pumps commercially in the world. Originally designed for the nuclear industry, canned motor pumps over the years have been developed and adapted to a wide variety of industrial services. Nikkiso has been at the forefront of those developments since its founding. The E-Monitor bearing monitoring system is the most advanced device of its kind in the industry.

LOGIC Technologies,

Inc......1101

LOGIC Technologies, Inc. was founded in 1980. The organization has been providing plant floor automation solutions on an international scale since inception. Fortune 500 clients throughout the United States and around the world rely heavily on the quality and durability of the systems that we provide to operate and maintain their respective daily operations. Our primary goal has always been to provide our customers with the most reliable cost-effective solutions possible.

LU-VE Group225

LU-VE Group is an Italian multinational company and one of the major manufacturers of air heat exchangers in the world. Leader in industrial refrigeration equipment and pioneer since the early 2000's of transcritical CO2. LU-VE Group can counts on 20 production facilities in Europe, Asia and in the USA and sales offices all around the world.

Mayekawa MYCOM.....417

Mayekawa is an industry leader in the manufacturing of industrial refrigeration compressors and specialty equipment. Known globally for reliability and quality, MYCOM compressors deliver energy efficient, low maintenance and cost effective solutions.

McCown Crafted Inc....801

McCown Crafted, Inc. is an insulation contractor specializing in insulating low temperature refrigeration systems. This includes insulation for Glycol, Co2, and ammonia systems. Our crews services and maintain food processing, fish processing, apple storage, and cold storage facilities. We have served our customers for 20+ years. Our objective is to provide unequalled professional insulation services directly for owners and to refrigeration contractors.

Mead & Hunt439

Mead & Hunt is a national engineering, architecture, and construction firm. Since 1949, we have been providing solutions to food and beverage manufacturers. Our team specializes in ammonia systems, from design to parts and equipment. As a mid-sized full-service firm, we are big enough to offer vast expertise, while small enough to remain flexible and give your project personal attention. By listening closely to you, we will become an extension of your team to develop a sound business case for your project. Our planning work will provide an executable scope, realistic budget, and schedule to effectively guide the implementation of your project.

Since 1982, MIRO industries has been a leader in the rooftop support industry. Our vast experience, provides us with the capability to achieve a full spectrum of services for all types of industrial projects. As a single source, consulting, engineering and manufacturing organization, we offer complete rooftop and grade level support and access systems.

MRBraz & Associates....725

With decades of experience in industrial refrigeration, MRBraz's capabilities include CFD design, design-build construction, manufacturing of VWMB DX Packages and technical support. Our eco-friendly refrigeration systems spearhead the industry in sustainability and reliability.

Nalco Water, an Ecolab Company432

Nalco Water is the global leader in water management and offer comprehensive water management for the cold storage industry. We can help optimize your sites' water systems, from evaporative condensers, boilers, and domestic water treatment. We work with you on-site, across

North America, to bring measurable improvements in operational efficiency, sustainability and quality.

NASRC1126

The NASRC is a 501c3 nonprofit organization who is taking action to advance natural refrigerants for supermarkets. Working directly with industry stakeholders, the NASRC focuses on removing the unique set of barriers preventing the widespread adoption of natural refrigerants.

New England Ammonia Safety228

NEAS was founded on the belief that there was a need for a thorough, honest and complete compliance contractor in the New England area for the Ammonia and Refrigeration Industry.

Nexus Refrigeration....1004

Today, system design and compliance are almost always done independently of each other, but at Nexus Refrigeration they are united. We specialize in consulting from engineering to full PSM programs.

Parker Hannifin......701

Parker's industrial refrigeration business unit has been the world leader in industrial refrigeration for more than 100 years. Our engineering expertise, customer service and manufacturing excellence combine to create a product breadth that is second to none. Our comprehensive product line includes pressure regulators, refrigerant float switches, strainers, automatic flow regulators, solenoid valves, gas-powered suction stop valves, check valves, safety relief valves and service valves for both ammonia and halocarbon refrigerants. They are all built to the highest quality standards recognized worldwide for durability and reliability. Industrial machinery made with Parker components helps systems operate more efficiently.

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Paul Mueller will feature their falling film chiller, semi-welded plate and frame heat exchanger, brazed plate heat exchanger and heat recovery equipment.

Pfannenberg......429

Pfannenberg's Signaling Team helps system designers choose the correct audible and visual alarms to warn of ammonia gas and other hazardous gases, keeping individuals safe from injury or death.

Phoenix Air Systems 333

Phoenix Air Systems is a leading manufacturer of Industrial Grade, Custom Hygienic Air Handling, Make-Up Air and Penthouse units specifically designed as custom solutions for the food and beverage industry.

Polyguard Products, Inc.....1113

Polyguard produces systems which protect insulated pipe and ductwork. We've recently introduced optimal "Cold Service" System including DuPont Styrofoam® XPS Insulation and Polyguard PolyPhen® Insulation. These systems are ideal for ammonia refrigeration and other cold pipe applications where long term performance is critical. In addition to DuPont insulation, it uses Polyguard's patented Reactive Gel corrosion inhibitors, ZeroPerm™ or Insulrap[™] vapor barriers and can be covered against the weather by our Alumaguard® family of exterior claddings.

Preston Refrigeration is a full-service industrial refrigeration contractor headquartered in Kansas City, MO. For over 75 years, the company has delivered innovative, efficient, and dependable solutions for clients in the meat processing, food & beverage, and cold storage sectors.

Protect105

Headquartered in Wichita, KS, and with 10 additional offices nationwide, PROtect is a leading national provider of Safety, Reliability, and Compliance Services. Drawing from years of real-world experience, PROtect is uniquely positioned to protect your company from unnecessary risks related to employee injury, property damage, liability, unplanned downtime, and regulatory non-compliance. Our services include Advanced and **Conventional Non-Destructive Testing** (NDT), Mechanical Integrity (MI), Pipeline Integrity (PLI), Leak Detection and Repair (LDAR), Environmental Compliance, Industrial Hygiene (IH), Infrared Testing (IR), general safety, and Process Safety Management (PSM).

Proviron339

We are a specialty chemical manufacturer with offerings in Secondary Heat transfer fluids.

QuickFreeze - Tippmann Engineering1124

QuickFreeze specializes in the design and manufacturing of equipment for temperature-controlled environments and is nationally recognized for the patented QuickFreeze In-Rack Freezing System for freezing and tempering palletized products. QuickFreeze draw-thru air technology is proven to be the fastest way to freeze/temper palletized products. Our in-rack & modular freezing technologies will bring the most energy-efficient cost savings to your cold storage operation. "QuickFreeze" The Fastest Way to Freeze a Pallet.

R.E. Lewis Refrigeration, Inc. 610

At R.E. Lewis, we embrace challenges and shatter deadlines because we know that in the food refrigeration industry — every second counts. We're proud of our reputation of

providing remarkable service under what others see as ridiculous timelines. Some see obstacles. We see opportunities. We don't just install ammonia refrigeration systems and mechanical piping, we custom design projects for some of the world's leading companies in the food industry.

RefPlus, Inc.

- St. Hubert.....1125

RefPlus, your custom refrigeration OEM, offers a complete line of refrigeration equipment, including CO2, from small standard units to the largest and most complex systems in the industry. RefPlus takes pride in its customization capabilities to offer the most efficient and tailored solutions. RefPlus' engineering team likes challenges and transforms your requirements into solutions. As a refrigeration equipment manufacturer, RefPlus developed and builds the best standard and custom refrigeration products in Canada and USA, tailored specifically to customer needs.

Refrigeration Systems Construction & Service

Full-Service Commercial and Industrial Refrigeration Construction and Service Company specializing in the design, installation, and maintenance of highgrade industrial ammonia and CO2 cascade refrigeration systems.

Republic Refrigeration. . . 311

Industrial refrigeration system design, modular packaged refrigeration systems, equipment skids, thermal construction, Process Safety
Management and Risk Management
Services, pipe installation, refrigeration controls, control and power wiring, parts, service quality, integrity, and performance. We do it right the first time!

RETA is the most recognized organization in the country dedicated to the professional development of industrial refrigeration operators and technical engineers by providing education, ANSI accredited certifications, and networking benefits.

Rigidized Metals Corporation435

Vipertex®, the heat transfer division of Rigidized® Metals Corporation - the world leader in enhanced metal surfaces - offers a new type of enhanced three dimensional heat transfer tubes and surfaces.

Risk Management Professionals was established as an engineering consulting firm specializing in the following areas for industry and government agencies: Risk Management & Process Safety, Emergency Response Planning, Operating Procedure Development, Compliance Audits, and IIAR 9 RAGAGEP Assessments. The company is dedicated to providing products and services of uncompromising quality and value.

Environmental Engineering and Consulting services focusing on PSM & RMP compliance for ammonia refrigerated facilities. Services include PSM & RMP development, Compliance Audits, MI Inspections, PHA's, Industrial Refrigeration 1-3, PSM, and Hazmat Training, and overall consulting.

ServiceTrade335

Purpose-built for mechanical, commercial HVAC, refrigeration, electrical, and fire & life safety contractors, ServiceTrade is a software as a service platform that helps commercial contractors coordinate office staff and technicians to deliver

an amazing customer experience for service and project work. Commercial contractors manage work orders and project budgets, schedule recurring and emergency work orders, access customer records, and integrate with their accounting platform while giving technicians all the information they need to complete a service in their mobile device. ServiceTrade enables business growth by extending customer relationships and attracting new prospects.

SGS Refrigeration/SPX Cooling Technology.....317

Our SGS brand mission is to be recognized as a leading manufacturer of high-quality, differentiated industrial refrigeration products that incorporate value-added features to simplify installation, operation and maintenance and extend product lifecycle.

Shambaugh & Son, L.P. . . 705

Shambaugh's Design -Build refrigeration division provides low temperature ammonia refrigeration systems. Fluid process, storage systems, preventative maintenance and emergency ammonia refrigeration service and spare parts sales to clients throughout the U.S.

Sinteco Americana Inc. . .437

Sinteco offers design, construction and turnkey solutions of components and end-to-end systems of air conditioning & distribution, clean rooms and food processing, catering to clients from all over the world.

Stellar is a fully integrated design, engineering, construction and mechanical services firm that provides a comprehensive range of self-performed services. Stellar designs, builds and services food processing plants, refrigerated warehouses, and distribution centers.

Storm Technologies....1032

Storm Technologies specializes in automation solutions for industrial refrigeration that provide reliable and intuitive controls to ensure peak system performance and efficiency.

Summit Lubrication....1002

Summit, a brand of Klüber Lubrication, is an industry leader in synthetic lubricant technology for industrial applications. Founded in 1982, Summit has always believed in a two-fold approach to serving the industries in North America: build the highest quality products and back them with uncompromising customer service. With its more than 160 employees, Summit is a strong, reliable partner.

Super Radiator Coil....1119

SRC designs and manufactures plate fin style heat exchangers - including condensers, evaporators and fluid coils for refrigeration applications. Designs can include formed, staged fins or high pressure applications (CO2).

Teikoku USA Inc. 1107

Teikoku is the World's largest manufacturer and supplier of "Low Probability" canned motor pumps. We understand the challenges of being environmentally friendly while improving cash flow through reducing downtime and increasing the safety of your employees and customers. Lower Installation Cost, Lower Life Cycle Cost and environmentally friendly with true secondary containment that ensures safety and minimizing effects on the environment while compliance with national and local laws and regulatory agencies.

Temprite specializes in energy-efficient coalescent and conventional oil separators, oil reservoirs, liquid receivers and refrigerant oil management products for all refrigerants including ammonia (NH3), carbon dioxide (CO2) and hydrocarbons (HCs).

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EXHIBITOR LISTING

TH. WITT - Your partner for industrial refrigeration with natural refrigerants For 125 years we have been using the advantages of the natural refrigerants ammonia and carbon dioxide. A family owned company dedicated to industrial refrigeration since 1896. We offer refrigeration contractors the reliable partnership with system solutions using high quality components such as refrigeration pumps with coupled motor and hermetic canned motor, high side float regulators and automatic oil return systems. For the European market we also produce entire pressure vessel units. Our components are designed and produced in Aachen, Germany and exported all over the world.

Thermal Seal Duct Systems124 Refrigeration Duct Work.

Thermofin Canada Inc. . .433
Leader in all heat exchanger appplications and pressure vessels for ammonia or CO2 industrial refrigeration systems. All our products are certified ASME and always custom built to your specifications and requirements. We serve various fields including ice rink technologies, industrial warehouses, HVAC, oil & gas, as well as food processes.

thermofin GmbH834

Products: evaporator, evaporative condenser units, gas coolers, dry coolers, and other types of AHE for Natural refrigerants. As worldwide expanding company, it is important for us to locally support our customers in a qualified manner. A well-structured sales network and numerous trading partners ensure a direct communication. Furthermore, we serve the local markets through plants on different continents. Our customers profit from costs savings and the reduction of delivery times.

Turbo Products, LLC233

As the original developer of Pillow Plate Laser Welding machines and 50 years of combined global manufacturing experience, Omega Thermo Products is the market leader in Laser Plate (Pillow Plate) heat exchangers. Omega's Laser Plates are used as integral tank construction and custom heat exchangers designs for various industries. Omega produces over 1,000,000 ft² of Laser Plate between it's global facilities servicing all continents.

Established in 1990, Vahterus is a Finnish family business focused on sustainable heat exchanger solutions. We are the inventor, pioneer and market leader in Plate & Shell Heat Exchanger technology. With headquarters and manufacturing facilities in Finland, and subsidiaries in the US, UK Germany and China, we currently employ more than 300 people.

Wagner-Meinert, LLC ...1001

Wagner-Meinert, LLC is committed to exceeding expectations by providing complete customer satisfaction through uncompromised integrity and excellence in engineering, installation, services, and training in refrigeration, food process, and mechanical integrity.

Wanxiang Refrigeration (Shanghai) Co., Ltd.....838

Evaporative condensers offer energy savings by providing lower system condensing temperatures than conventional air-cooled or water-cooled condensing systems.

WEG Electric Corp 126

WEG's purpose is to develop technologies and solutions that contribute to a more efficient and sustainable world for everyone. WEG is one of the largest manufacturers of electric motors in the world producing more than 10 million units annually. Committed to growth on a global scale, WEG continually invests in state-of-the-art manufacturing facilities and processes, and the development of reliable and more efficient industrial electrical solutions. WEG offers a diverse and integrated product line that includes motors, drives, soft starters, controls, gearing, panels, transformers, alternators, generators, turbines, and custom solutions.

Wolters Kluwer | Enablon839

Wolters Kluwer Enablon is the world's leading provider of integrated software solutions for risk and compliance; engineering and operations; environment, health, safety, and quality (EHSQ); and sustainability. The business helps create a better world by making organizations responsible, productive, and safe through innovative technology. Hundreds of industryleading enterprises and millions of users worldwide rely on Enablon's solutions to minimize risks, increase worker safety, prevent incidents, achieve regulatory compliance, and reduce environmental impact.

Zero Zone, Inc.....1017

Established in 1961, Zero Zone, Inc. is a leading manufacturer of refrigeration systems for industrial and commercial applications utilizing CO2, ammonia, and HFC refrigerants. Zero Zone offers Packaged Industrial Refrigeration Systems that decrease on-site costs and provide a tailored solution to applications like cold storage, ice arenas, pharmaceutical, food processing, and distribution. Zero Zone Systems are known for their rugged construction, reliability, and ease of installation. A wide variety of configurations are available, from distributed to outdoor parallel systems.

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NATURAL REFRIGERATION FOUNDATION

We are the Natural Refrigeration Foundation, the world's leading resource for evidence-based science to support the most earth-friendly refrigerants, which will drastically reduce greenhouse gases. It's Cool science. The Foundation is a 501c(3) non-profit, education, research and training



association dedicated to the natural refrigeration industry. Founded in 2006 by the membership of the International Institute of Ammonia Refrigeration (IIAR), it's partnerships and alliances have grown to include GCCA, RETA, ASHRAE, schools and trade associations.

MISSION

The Natural Refrigeration Foundation promotes the climatepositive, safe, reliable, and efficient use of the most earth-friendly natural refrigerants through research and scholarships to develop industry talent, academic alliances, and outreach.

VISION

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The Natural Refrigeration Foundation is the world's leading resource for educational development, research, and the practical promotion of the most earth-friendly natural refrigerants.



FOUNDERS' SCHOLARSHIP RECIPIENTS



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NRF BOARD OF DIRECTORS

NRF BOARD OF DIRECTORS 2023-2024



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Director-At-Large appointed from NRF Board of Trustees from NRF Trustees Republic Refrigeration, Inc.

Joseph A. Mandato, Jr.

Director-At-Large appointed from NRF Board of Trustees from NRF Trustees EVAPCO, Inc - Retired

Mark Stencel

Education Committee Chair (2018 – Sept 2023) Bassett Mechanical, Inc. - Retired

John Flynn

Education Committee Chair (Sept 2023 – current) General Refrigeration Company (not shown in photo)

William (Bill) Greulich

Research Committee Chair Kensington Consulting

Gary Schrift

IIAR President President, IIAR

2024 IIAR NATURAL REFRIGERATION CONFERENCE & HEAVY EQUIPMENT EXPO

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NRF FUN DAY! - SUNDAY, MARCH 24

NRF TOURNAMENTS: GOLF, PICKLE BALL & CORNHOLE

2024 William E. Kahlert Memorial Golf Tournament

The Natural Refrigeration Foundation is a 501(c)(3) non-profit, education research and training association dedicated to the natural refrigeration industry. Founded in 2006 by the membership of the International Institute of Ammonia Refrigeration (IIAR), its mission is to support research for the safe, reliable and efficient



use of ammonia and other natural refrigerants, and to promote the development of industry talent through scholarships, academic alliances and outreach. The annual William E. Kahlert Memorial Golf Tournament supports these efforts.

When | Sunday, March 24, 2024

Golf Buffet Breakfast | 6:30 AM - 8:00 AM

Duration | 8:00 AM – 2:00 PM

NRF VIP Reception and Awards Ceremony

3:00 PM - 4:00 PM

SPONSORED BY:





Where | Rosen Shingle Creek, 9939 Universal Blvd, Orlando, FL 32819

Dress Code Shirts with sleeves and collars are required at all times. No denim or jeans are allowed.

PRESIDENTS BRACKET ENTRY - \$3,500.00

For corporate sponsored foursomes & includes sponsorship of a hole. List the name of the sponsoring company and the individual golfers, with the corporate contact's name in Golfer Name Position 1. The team may be comprised of any combination of sponsoring company members, customers, associates and friends.

OPEN COMPETITION BRACKET - \$475.00

For individual participants of all skill levels. Four-player teams will be assigned by the Tournament Committee based on handicap or by request. If handicap is not known, please submit typical score for a round.

GOLF CLUBS

Rental Clubs are available to be directly rented from the Rosen Shingle golf clubhouse at a price per set of \$60.00 plus 5% service charge and 6.5% sales tax (Price includes two (2) sleeves of golf balls per set). Taylor Made clubs are available. Replacement cost on broken or lost clubs will be \$150.00 per iron, \$280.00 per putter, and \$499.00 per wood. Each golfer is responsible for their own rental clubs.

** If a golfer needs to rent clubs, please call the Pro-Shop at (407) 996-1559 to reserve a set.

There is a limited number of clubs onsite, so it is advised to call ahead to rent.

For questions regarding this event email us at conference@iiar.org.

2024 HAR NATURAL REFRIGERATION CONFERENCE & HEAVY EQUIPMENT EXPO

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Pickle Ball and Cornhole Tournament

The second annual Natural Refrigeration Foundation Pickleball and Cornhole Tournament will take place on Sunday, March 24, from 10:00 AM to 2:00 PM at Rosen Shingle Creek.

Register your two-person team for either the Pickle-ball or Cornhole Tournament. Tournaments are held simultaneously; therefore, a team cannot participate in both. Anyone can participate, even if not registered for the conference, therefore, guests or members of a registrant's family may participate. Registration is first come, first serve, so please register soon. You can register with payment and a team name only. The actual two participant names can be provided later, or during Team check-in at the event.

Team Play Overview

- Tournaments will involve maximum of 16 teams with 2 players each = 32 players
- Each Tournament (Pickleball & Cornhole) will play a total of 4 rounds on 8 available courts
- Round 1 16 teams play one game to determine 8 winners
- Round 2 8 teams play one game to determine 4 winners
- Round 3 4 teams play one game to determine 2 finalists, and 2 semi-finalists
- Round 4a 2 finalist teams face each other for the 1st and 2nd place
- Round 4b 2 semi-finalist teams face each other for 3rd and 4th place

All participants will be required to wear appropriate sport shoes and clothing and sign a waiver releasing tournament providers of any and all liability for any injuries, etc. All required sporting equipment and gear included.

Two Person Team Registration – \$300 per team (Pickleball or Cornhole)

For any questions regarding this event please email us at conference@iiar.org.



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2024 IIAR NATURAL REFRIGERATION CONFERENCE & HEAVY EQUIPMENT EXPO

NRF FUN DAY SPONSORS



THANK YOU TO OUR 2024 SPONSORS!

PLATINUM - \$6,000





GOLD - \$4,000









SILVER - \$3,000

























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JOIN US FOR THE NRF TOURNAMENTS FOR 2025 IN PHOENIX, ARIZONA!











FOR MORE INFORMATION, E-MAIL US: CONFERENCE@IIAR.ORG

The Natural Refrigeration Foundation is a 501(c)(3) non-profit, education, research and training association dedicated to the natural refrigeration industry. All proceeds from this annual tournament are used to support The Foundation's scholarship, research and outreach programs.



In conjunction with the IIAR 2025 Natural Refrigeration Conference & Expo.

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IIAR UPDATES

• AIMAct.org web page



- New alliances
 - IIR, France
 - NASRC, USA
 - UNEP Cool Coalition Program Member
- Newest LATAM Chapter: Brazil



IIAR Latin America Seminars for 2024:







- Condenser Magazine website
 - Read the March 2024 Condenser Magazine Articles
 - iiarcondenser.org



Natural Refrigeration Directory



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2024 HAR NATURAL REFRIGERATION CONFERENCE & HEAVY EQUIPMENT EXPO





Stop by booth 711 with your fluid chilling needs and ideas. We would love to introduce you to the FRICK® IPAC-S. This inline packaged ammonia chiller is reliable and cost effective with a reduced footprint. It's perfect for your food and beverage applications.

IPAC-S - one more reason to choose FRICK, leaders in industrial refrigeration and heating.

2024 IIAR Natural Refrigeration Conference & Heavy Equipment Expo Rosen Shingle Creek Resort, Orlando, Florida March 24-27, 2024

M&M Carnot Product Showcase: 10:10 A.M. - 10:30 A.M.

FRICK Product Showcase: 10:40 A.M. - 11 A.M.

Screw Compressor Packages | Chillers | Heat Pumps | Quantum HD Controllers | Hygienic Air Handlers Heat Exchangers | Evaporators | Condensers | Digital Solutions | FRICKTraining.com | Vessels

The power behind your mission

Come and say hello at Booth 711

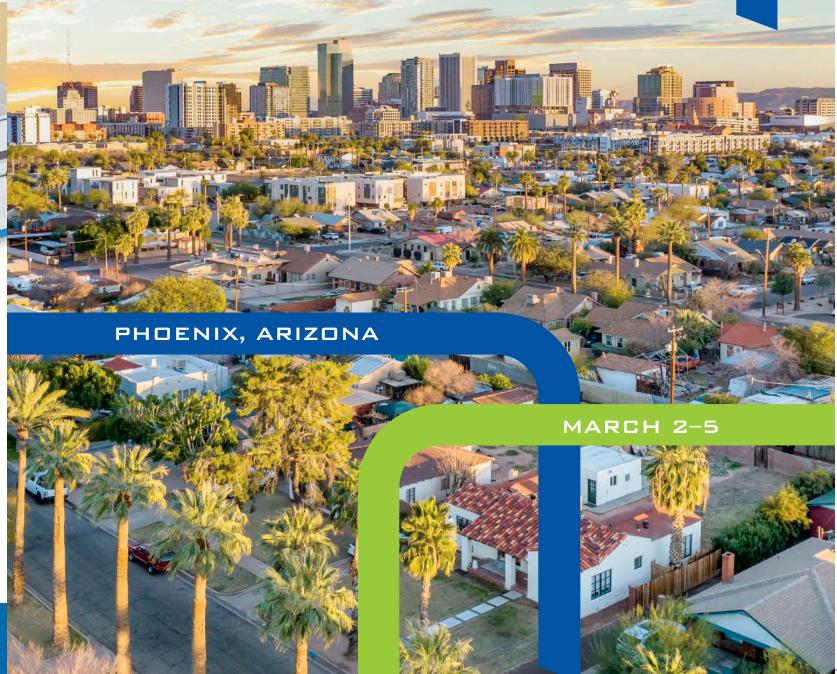


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HEAT TO COOL.

When it comes to decarbonizing heat, GEA heat pump technology has a proven track record. In fact, as we drive toward a carbon-neutral future, energy-efficient heat pumps are rapidly becoming the technology of choice. Here's why they make sense:

- Lowers energy consumption Heat pump solutions, either combined with refrigeration systems or stand alone, can improve your heating performance significantly.
- **Decreases operating costs** Replacing fossil fuel based-heating systems with a highly efficient heat pump lowers operating costs.
- **Reduces carbon footprint** Reducing or eliminating fossil fuel with a heat pump paves the way towards zero-emission targets.
- **Meets sustainability goals** It's a future-proof investment, especially as stricter guidelines develop on carbon emissions and environmental compatibility.

Stop by and meet with our heat pump experts at booth #401 in Orlando.



To learn more, scan the QR code. Visit: gea.com/unitedstates Email: sales.northamerica@gea.com



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