

ZUNATURAL ZUNATURAL ZS REFRIGERATION CONFERENCE & HEAVY EQUIPMENT

EXPO



CONFERENCE PROGRAM





We design and manufacture a wide variety of Pressure Vessels, Shell and Tube Heat Exchangers, and Packaged Equipment designed for the Industrial Refrigeration and Petrochemical Industries.









WELCOME TO PHOENIX AND THE 2025 HAR INDUSTRIAL REFRIGERATION CONFERENCE & HEAVY EQUIPMENT EXPO!

'm excited to welcome you to Phoenix as part of the 47th IIAR conference. It's hard to believe that our organization recently blew past five decades of work on behalf of this industry! Much of that work happens at our annual conference, so welcoming you this year is more than just a hello, it's a call to dig in, get involved, network, and help your colleagues carry on this awesome tradition of advancing natural refrigerants here and around the world.

Now is a truly global moment for our industry. The legacy of the movement that began in 1970 with a small group of engineers who wanted to shape standards – is here. Walking through the halls of IIAR conferences in the last few years, I've noticed how we've grown into our mission. I see faces from all over the world, from different countries, ethnicities and genders. With that in mind, it's my pleasure to mark this milestone by introducing myself as your first female conference chair.

Diversity in thought, development and discussion is our great strength. As we hurtle into the next chapter – of environmental challenges, economic changes, and the need for ever more efficient and advanced technologies – our industry will be well prepared to compete.

This year, our keynote speaker, Robert Bilott, will be on hand to speak about his 20-year fight to expose the dangers of PFAS or "forever chemicals." His epic legal battle against DuPont consumed his life and exposed the worst case of corporate coverup and environmental contamination in modern history. It's a story I think we can all draw strength from as we work to advance natural refrigerants to meet the environmental needs of our planet.

Again this year, IIAR is also broadening the scope of our technical program. For the first time, we've introduced tracks to better organize our technical discussions and meet a broader range of educational needs. These new educational tracks represent a deeper dive into our subject matter and include: System Design; System Safety; Carbon Tracking/Decarbonization; Facility Management; Heat Pumps and Intro to Refrigeration.

I'm also excited to announce that this year's conference will feature many activities designed for fun and relaxation, including an NRF-sponsored bingo tournament and the new NRF lounge where you can go Sunday through Tuesday to get some down time with colleagues, catch up on email or grab a cup of coffee.

As always, please join me in thanking your hardworking IIAR staff for completing another successful event. And if you're new here, don't hesitate to reach out, get involved and find the IIAR committee or volunteer work that makes the best use of your talent! Welcome to Phoenix and enjoy the conference.

Best Regards,
Jeanna Emmons
2025 Conference Chair









Discover how the power of two means more innovative food and beverage applications

Visit us at booth 703 to learn how, as a combined force, FRICK and M&M Carnot is delivering innovative packages and controls for your industrial refrigeration and heating applications. Find out more about safe, sustainable Aquilon CO_2 packages and cost-saving FRICK SmartPac heat pumps.

2025 IIAR Natural Refrigeration Conference and Heavy Equipment Expo The Phoenix Convention Center, Phoenix, Arizona March 2-5, 2025

Drop by booth 703 on Tuesday March 3rd for a presentation on CO_2 and an ammonia training session from FRICKTraining.com

- FRICK ammonia training 10:20 a.m. to 10:45 a.m.
- M&M Carnot CO₂ presentation 10:55 a.m. to 11:20 a.m.



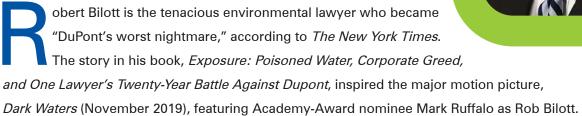
Screw Compressor Packages | AcuAir Hygienic Systems | Packaged Ammonia Chillers and Heat Pumps |
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IR Advisor | Pure Ammonia Packages | Aquilon CO₂ Packages | Frick Training School



KEYNOTE SPEAKER

ROBERT BILOTT

Prominent Environmental Attorney and Inspiration Behind the Critically Acclaimed Film *Dark Waters*, Starring Academy Award-Winning Actor Mark Ruffalo



Bilott was a corporate defense attorney for eight years until he took on an environmental suit that upended his entire career—and exposed a brazen, decades-long history of chemical pollution. He shares the story of his epic 20-year legal battle against DuPont that consumed his life and exposed the worst case of corporate coverup and environmental contamination in modern history.

Bilott recounts the day a farmer came to his firm, convinced the creek on his property had been poisoned by runoff from a nearby DuPont landfill. Audiences will hear the remarkable legal journey that ultimately revealed massive chemical contamination of unprecedented scale and scope, now impacting virtually every living thing on this planet.

Bilott's story is an unforgettable legal drama about malice and manipulation, perseverance against the failings of environmental regulation, and one lawyer's quest to expose the truth about a previously unknown and still unregulated chemical—presenting one of the greatest human health crises of the 21st century.

To date, Bilott—a partner at Taft Stettinius & Hollister LLP—has helped secure over \$1 billion in benefits for his clients exposed to contaminated drinking water. Among his many honors, Bilott was selected as one of the best lawyers in America for several years running and in 2017 received the Right Livelihood Award, commonly known as the "Alternative Nobel Prize."

Bilott has been appointed a Lecturer at the Yale School of Public Health: https://ysph.yale.edu/profile/robert_bilott/.





2024-2025 IIAR BOARD OF DIRECTORS & OFFICERS

BOARD OF DIRECTORS

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Dave Malinauskas Immediate Past Chair CIMCO Refrigeration Contractor

Gary Schrift President IIAR Ex-officio

* Ex-Officio

Pictured Left to Right:

First Row: Mark Wisniewski, Stephanie Smith, Peter Thomas, Nicholas Nechay, Robert Baker, Mark Bazis, Gary Elk, Wayne Wehber, Michael McGinnis

Middle Row: Maxime Girot, Lesley Schafer, Max Duarte, Don Faust, Douglas Scott, Wayne Borrowman, Jeanna Emmons, Gary Schrift, Dave Malinauskas, Joe Fazzari, Ryan Murphy, Miguel Garrido

Last Row: Kurt Liebendorfer, Mike Lynch, Mark Tomooka, Jeffrey Sutton, John Flynn, Todd Jekel, Glen Heron





The Natural Leader of Industrial Refrigeration Solutions

Superior Quality - Environmentally Friendly - Reliable Operation - Guaranteed Performance

CO₂ Product Highlight: LMP Purity Rack with Platinum Package



- EvapCore™ PLC Controls
- ASME B31.5 Compliant
- UL 1995 & UL 60335-2-89 Compliant
- ANSI/IIAR CO₂ 2021 Compliant
- XPS Insulation with PVC Jacketing
- Compliant Valve, Piping, and Component Labeling and Tagging
- Improved Ease of Access Enclosure



Visit us at Booth 403 to see our Product Showcase on Tuesday 3/4 at 9:10AM MST to hear about the latest upgrades to our LMP CO₂ Rack!

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CO2 HANDBOOK

Committee Chair: Wayne Borrowman,
CIMCO Refrigeration — Developed and
maintains the IIAR CO2 handbook, which
guides refrigeration practitioners on the
theory, design, and practical application of
refrigeration and heat pump systems that
use carbon dioxide (CO2) as the refrigerant.
The handbook addresses subcritical CO2
application, transcritical CO2 applications,
and CO2/ammonia cascade system
designs. The CO2 handbook committee
may also develop research proposals and
educational program proposals related to
the use and application of CO2 refrigeration
and heat pump systems.

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: Bob Almon,
Innovative Refrigeration — 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
	8:00 AM – 10:00 AM	Standards Committee	North 126
	10:30 AM – 11:30 AM	Energy & Sustainability Committee	North 124
	10:30 AM – 11:30 AM Piping Committee		North 129
	10:30 AM – 12:00 PM	Marketing Committee	North 126
0 1 14 10	11:45 AM – 12:45 PM	AIM ACT Task Force	North 124
Sunday, March 2	11:45 AM – 12:45 PM	CO2 Committee	North 129
	1:15 PM – 2:15 PM	International Committee	North 124
	2:45 PM – 4:45 PM	Government Relations Committee	North 124
	2:45 PM – 4:45 PM	Latin America (LATAM) Subcommittee	North 126
	2:45 PM – 4:45 PM	Research Committee	North 129
Monday, March 3	10:00 AM – 12:00 PM	Education Committee	North 132
Tuesday, March 4	8:00 AM – 9:00 AM	Safety Committee	North 125
Tuesday, March 4	9:15 AM – 10:15 AM	Compliance Committee	North 125



NATURAL REFRIGERATION

CONFERENCE & HEAVY EQUIPMENT EXPO

MARCH 2-5, 2025 • PHOENIX, ARIZONA

PLATINUM





















GOLD

















SPONSORS

Applied Process Cooling Corp





























SILVER



















= Exhibit Hall Open = Committee Meetings

NATURAL REFRIGERATION

CONFERENCE & HEAVY EQUIPMENT EXPO

MARCH 2-5, 2025 • PHOENIX, ARIZONA

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

North 129

North 120 A

Wren & Wolf (Offsite)

Friday, February 28 8:00 AM 5:00 PM **RETA Training** Room 131 C Saturday, March 1 7:00 AM 7:30 AM Board Meeting Breakfast - By invitation only North 132 7:30 AM 11:30 AM Board Meeting (Outgoing and Incoming) - By invitation only North 132 8:00 AM 5:00 PM **RETA Training** Room 131 C 8:30 AM 5:00 PM Registration Desk Open North Hall 5-6 Lobby 9:00 AM 5:00 PM **Exhibit Hall Setup** North Hall 5-6 12:00 PM 1:00 PM NRF Golf Lunch - Sponsored by Airfoil Impellers Arizona Grand (offiste) 1:00 PM 5:00 PM NRF Golf Tournament – Sponsored by The Kahlert Foundation Arizona Grand (offiste) 5:00 PM 6:00 PM NRF Golf Awards Reception - Sponsored by EVAPCO Arizona Grand (offiste) Sunday, March 2 7:30 AM 5:00 PM Registration Desk Open North Hall 5-6 Lobby 8:00 AM 5:00 PM **Exhibit Hall Setup** North Hall 5-6 8:00 AM 5:00 PM **RETA Training** Room 131 C 8:00 AM 10:00 AM North 126 Standards Committee 10:30 AM 10:00 AM Committee Meeting Coffee Break - For committee meeting attendees only - Sponsored by Isotherm, Inc. North 124/129 (Prefunction) 10:30 AM 11:30 AM Energy & Sustainability Committee North 124 11:30 AM North 129 10:30 AM **Piping Committee** North 126 10:30 AM 12:00 PM Marketing Committee 11:45 AM 12:45 PM AIM Act Task Force North 124 11:45 AM 12:45 PM CO2 Committee North 129 1:15 PM 2:15 PM International Committee North 124 2:00 PM 5:00 PM NEW! - NRF Lounge Open - This serene space will offer attendees a place to work, relax, and enjoy North 121 a premium espresso by a professional Barista! A perfect retreat from the conference hustle and bustle. 2:15 PM 2:45 PM Committee Meeting Coffee Break - For committee meeting attendees only North 124/129 (Prefunction) 2:30 PM 4:30 PM NEW! - NRF Bingo - Bingo is not just a game; it's a social experience! It promotes interaction, North 122 creates lasting memories, and brings people together. Plus, every ticket sold supports the Natural Refrigeration Foundation. - Sponsored by Innovative Refrigeration Systems, Inc. 2:45 PM 4:45 PM **Government Relations Committee** North 124 2:45 PM 4:45 PM **LATAM Committee** North 126

		- Sponsored by Bonar Engineering				
Monday, March 3						
6:30 AM	5:00 PM	Registration Desk Open	North Hall 5-6 Lobby			
7:00 AM	8:00 AM	Breakfast prior to the Business Meeting – Sponsored by CIMCO Refrigeration Inc.	North 120 C-D			
8:00 AM	8:45 AM	Business Meeting	North 120 C-D			
8:45 AM	9:45 AM	Keynote Speaker: Robert Bilott	North 120 C-D			
8:00 AM	5:00 PM	RETA Training	Room 131 C			
10:00 AM	1:30 PM	Exhibit Hall Open	North Hall 5-6			

VIP Dinner for Board/Comm Members/Scholarship Students/NRF - By invitation only

2:45 PM

5:00 PM

6:45 PM

4:45 PM

6:30 PM

9:00 PM

Research Committee

Chairman's Reception – Sponsored by Republic Refrigeration

PROGRAM SCHEDULE



PHOENIX CONVENTION CENTER

10:00 AM	10:30 AM	Coffee Break inside Exhibit Hall	North Hall 5-6
10:00 AM	10:30 AM	IIAR Board Photos – By invitation only	
10:00 AM	12:00 PM	Education Committee	North 132
10:30 AM	12:00 PM	RETA's Women in Natural Refrigeration (WiNR) Group Meeting	Room North 125 A
10:10 AM	10:35 AM	Product Showcase #1 by Baltimore Aircoil Company – Evaporative Condenser Materials and Passivation: Debunking Myths and Uncovering the Facts – Presenter: Laura Marshall, BAC	North Hall 5-6
10:45 AM	11:10 AM	Product Showcase #2 by Mayekawa MYCOM – Low Charge mChiller – TAKA by Mayekawa – Presenters: Andy McDicken & Alex Lape	North Hall 5-6
11:20 AM	11:45 AM	Product Showcase #3 by Danfoss – <i>Take the Shortcut to Low-Charge: How NeoCharge Boosts Efficiency for Spiral Freezers and Distribution Centers</i> – Presenters: Hernan Hidalgo, Sales Director - Industrial Refrigeration, Danfoss North America; Matthew Stachura, Process Safety Management Coordinator, Perry's Ice Cream	North Hall 5-6
11:55 AM	12:20 PM	Product Showcase #4 by Wolters Kluwer – Unlocking the Power of Operational Data to Achieve your Regulatory and Sustainable Energy Goals	North Hall 5-6
12:00 PM	1:00 PM	Lunch inside Exhibit Hall	North Hall 5-6
1:05 PM	1:30 PM	Product Showcase #6 by Zero Zone, Inc — Engineering Excellence: Real-World Success with Natural Refrigerants — Presenters: John Collins, P.E., Director of Industrial Sales and Jack Gage, Industrial Regional Sales Manager	North Hall 5-6
1:15 PM		Monday Drone Raffle Drawing – Sponsored by Baltimore Aircoil Company	BAC booth #639
1:30 PM	2:30 PM	TP: Encontrando el balance entre consumo energetico y de agua condensadores y torres de enfriamiento (Spanish TRACKS: System Design; Carbon Tracking/Decarbonization) – Presented by: Karel Israel Ortiz Rayas, Güntner Mexico	North 126 A-C
		TP: EPA's New RMP Requirements and Suggestions for Compliance (TRACKS: System Safety; System Design)—Presented by: Bill Lape, SCS Engineers	North 127 A-C
		TP: Connecting Cooling and Process Heating in Industrial Applications with Natural Refrigerants (TRACKS: Heat Pumps; Carbon Tracking/Decarbonization) – Presented by: Felix St-Germain, LaPort Consulting	North 128 A-B
1:30 PM	3:30 PM	WS: Stress Corrosion Cracking, Vessel Design, and the Importance of Ammonia Specifications (TRACKS: System Design; System Safety) – Presented by: Doug Reindl, IRTC and Dave Crement, RVS	North 124 A-B
		PANEL: Best Practices for Developing an Emergency Response Program (TRACKS: System Safety; Facility Management)— Panelists: Gary Smith, ASTI; Eric Smith, IIAR; Michael Chapman, IIAR	North 122 A-C
		PANEL: Regulations, Codes, & Compliance 101 – The Basics that Apply to Natural Refrigerants (TRACKS: Intro to Refrigeration; System Safety) – Panelists: Jeanna Emmons, PSM RMP Solutions; Lesley Schafer, C&S Wholesale Grocers; Mark Bazis, Refrigeration Consultants; Lisa Battino-US Cold Storage	North 129 A-B
2:00 PM	5:00 PM	NEW! – NRF Lounge Open – This serene space will offer attendees a place to work, relax, and enjoy a premium espresso by a professional Barista! A perfect retreat from the conference hustle and bustle.	North 121
2:35 PM	3:35 PM	WS: Proyecto R290: Enfriadores de liquido con futuro (Spanish Presentation TRACKS: System Design; Intro to Refrigeration) – Presented by: Gildardo Yañez, Bohn de Mexico	North 126 A-C
		TP: Livin' La Vida LOPA: A Case Study of the Application of HAZOP and LOPA for Ammonia Refrigeration Systems (TRACK: System Safety) – Presented by: Michael Lacher, Cargill	North 127 A-C
		TP: CO2 Heat Pumps: System Solutions and Applications Mapping (TRACKS: Heat Pumps; System Design) – Presented by: Ivan Rangelov, Danfoss	North 128 A-B
3:30 PM	4:00 PM	Coffee Break	North (Prefunction)
4:00 PM	5:00 PM	WS: Interactive system Design WS (TRACKS: System Design; Intro to Refrigeration) – optional: bring your laptops – Presented by: Joe Sanchez, Bitzer US	North 124 A-B
		TP: Refrigeration System Design Using Float Expansion Valves (TRACK: System Design) – Presented by: Todd Jekel, University of Wisconsin	North 126 A-C
		TP: How to Optimize your PSM Program (TRACK: System Safety) – Presented by: Eli Macha, Macha PSM	North 127 A-C
		WS: Correlation Between Identification of Key Stakeholders and a Successful PSM Program (TRACKS: System Safety; Intro to Refrigeration) – Presented by: Kushal Aurangabadkar	North 128 A-B

PROGRAM SCHEDULE (CONTINUED)

= Exhibit H	lall Open 🔲	= Committee Meetings *Registered attendees are invited to all events, meals, & programming unle	ess 'by invitation only' is noted
4:00 PM	6:00 PM	PANEL: Tranisitioning from Synthetic to Natural Refrigerants (TRACK: Carbon Tracking/ Decarbonization) – Panelists: Danielle Wright et. al., NASRC; Stephen Oliver Anderson; Fritz Troller (THERM); Kashif Nawaz, OakRidge Labs	North 122 A-C
		PANEL: Proceso de Adopción de Normas en Latino América: Colombia, Paraguay, Costa Rica, Brasil (Spanish Panel TRACKS: System Safety; System Design) — Panelists: Manuel Corella, CIEMI Costa Rica; David Solis, BAC; Luis Adur, Bombadur Argentina & Brasil; Rodrigo Barion, Brasil; Bolivar Monroy, ACAIRE Colombia	North 129 A-B
5:05 PM	6:05 PM	TP: Applications of Ammonia and CO2 for Decarbonization and Markets Other than the Food & Beverage Industry (TRACKS: System Design; Carbon Tracking/Decarbonization) – Presented by: Paul Danilewicz, Enerflex Energy Systems, Inc	North 126 A-C
		TP: Lessons Learned from a Collection of Ammonia Incident Investigations (TRACKS: System Safety; System Design) – Presented by: C'Anna Wiens, Resource Compliance	North 127 A-C
		TP: Taming the Beast of Transcritical CO2 Refrigeration: Explaining High-Pressure Expansion Valve Control with a Pressure Enthalpy Diagram (TRACK: System Design) – Presented by: Bruce Hierlmeier	North 128 A-B
6:30 PM	9:30 PM	Monday Night Event – Sponsored by EVAPCO & Mayekawa MYCOM – offiste, walking distance	810 Billiards & Bowling
Tuesday, M	larch 4		
7:00 AM	5:00 PM	Registration Desk Open	North Hall 5-6 Lobby
7:30 AM	1:00 PM	Exhibit Hall Open	North Hall 5-6
7:30 AM	8:30 AM	Breakfast inside Exhibit Hall – Sponsored by Delta Tee International, Inc.	North Hall 5-6
8:00 AM	8:25 AM	Product Showcase #7 by Hillphoenix – Transcritical CO2 Solutions for Industrial Refrigeration – Presenter: Sam Gladis	North Hall 5-6
8:00 AM	9:00 AM	Safety Committee	North 125
8:35 AM	9:00 AM	Product Showcase #8 by Magna Industrial Refrigeration by Heatcraft – Powering Performance with Adiabatic Gas Coolers – Presenter: Mark Dutton	North Hall 5-6
9:10 AM	9:35 AM	Product Showcase #9 by EVAPCO LMP – Reliable, Compliant, & Sustainable CO2 Solutions – Presenters: Kurt Liebendorfer and Frederic Houle	North Hall 5-6
9:15 AM	10:15 AM	Compliance Committee	North 125
9:30 AM	11:00 AM	Outgoing & Incoming NRF Board Member Meeting	North 132
9:45 AM	10:10 AM	Product Showcase #10 by GEA Heating and Refrigeration – Getting to know GEA Chillers – Presenter: Shawn Gebhart	North Hall 5-6
10:00 AM	10:30 AM	Coffee Break inside Exhibit Hall	North Hall 5-6
10:20 AM	10:45 AM	Product Showcase #11 by Frick Industrial Refrigeration – <i>Training on Natural Refrigerants by Frick</i> – Presenter: Don Faust	North Hall 5-6
10:55 AM	11:20 AM	Product Showcase #12 by M&M Carnot – Application of Ammonia and CO2 Heat Pumps – Presenter: John Miranda	North Hall 5-6
11:00 AM	12:00 PM	NRF Board Photos – By invitation only	
11:30 AM	11:55 AM	Product Showcase #13 by Güntner – Sustainable & Data-Driven Cooling: Güntner's Intelligent IOT Solutions – Presenter: Zachary Wernlund, Smart Solutions Manager – NLA at Güntner	North Hall 5-6
11:30 AM	12:30 PM	Committee Chairs Meeting – By invitation only	North 125
12:00 PM	1:00 PM	Lunch inside Exhibit Hall	North Hall 5-6
12:05 PM	12:30 PM	Product Showcase #14 by JS Compliance – <i>JSC's TotalPSM Annual Service Agreement for Compliance with PSM and RMP</i> – Presenters: Jet Stiffler and Dannette Tyson	North Hall 5-6
12:30 PM	1:00 PM	Finance Committee – By invitation only	North 132
1:00 PM	2:00 PM	TP: Understanding Industry Needs In Water Treatment (TRACK: Facility Management; Intro to Refrigeration) – Presented by: James Booth, Mechanical Cooling and Heating	North 124 A-B
		TP: Lubricant Selection and Oil Management Strategies for CO2 Systems (TRACK: System Design) – Presented by: Giacomo Pisano, Dorin SpA	North 126 A-C
		TP: Ammonia Interior Release – Considerations for Dispersion, Ventilation, and Hazardous Zone of Negligible Extent (TRACKS: System Safety; System Design) – Presented by: Bill Greulich, Kensington Consulting	North 127 A-C
		WS: Aplicación de normativas y recomendaciones de seguridad en sistemas de refrigeracion con amoniaco (Spanish TRACKS: System Design; System Safety) – Presented by: Gustavo Hernandez, Clauger Mexico	North128 A-B
		WS: Natural Refrigeration Industry & Association Composition (TRACK: Intro to Refrigeration; Industry Makeup) – Presented by: Dave Malinauskas, CIMCO Refrigeration	North 129 A-B

1:00 PM	3:00 PM	PANEL: Regulatory and Research Panel (TRACKS: System Safety; System Design) – Panelists: Bill Greulich, Kensington Consulting; Lowell Randel, GCCA/IIAR; Lane Loyko (Hydraulic Shock); Bruce Nelson	North 122 A-C
2:05 PM 3:05 PM		TP: Using Scorecards to Manage and Improve Your RMP/PSM Program (TRACKS: Facility Management; System Safety) – Presented by: Nikolaus Despain, APSM	North 124 A-B
		TP: Sustainable Solutions for Agricultural Cold Storage (TRACKS: System Design; Carbon Tracking/Decarbonization) – Presented by: Tania Herrera, Guntner US LLC; Dan O'Brien, Zero Zone	North 126 A-C
		WS: Regulatory Outlook (TRACK: System Safety) – EPA and OSHA Perspectives	North 127 A-C
		WS: Evaluación de los tipos de compresores en aplicaciones específicas e impacto en la eficiencia de las bombas de calor de amoníaco (Spanish TRACK: Heat Pumps) — Presented by: Paz Diaz Munoz, GEA	North 128 A-B
		WS: Basic Refrigeration Demystified (TRACK: Intro to Refrigeration) – Presented by: Andrew Keeley, Fabricold	North 129 A-B
2:00 PM	5:00 PM	NEW! – NRF Lounge Open – This serene space will offer attendees a place to work, relax, and enjoy a premium espresso by a professional Barista! A perfect retreat from the conference hustle and bustle.	North 121
3:00 PM	3:30 PM	Coffee Break	North (Prefunction)
3:30 PM	4:30 PM	TP: Deploying AI and Advanced Process Control at Scale (TRACKS: Facility Management; System Design) – Presented by: James Majsak, Crossnokaye	North 124 A-B
		TP: Field Performance Assesment of Low Temperature Blast Freezing Systems (TRACKS: System Design; Carbon Tracking/Decarbonization) – Presented by: Eric Alar, University of Wisconsin	North 126 A-C
		TP: The Challenges and Insights of Selecting Your New Refrigeration System (TRACK: System Design) — Presented by: Kurt Liebendorfer, EVAPCO and Ryan Reardon	North 127 A-C
		TP: Decarbonizing with District Energy Systems – When an R744 (CO2) Heat Pump is the Obvious Choice (TRACKS: Heat Pumps; Carbon Tracking/Decarbonization) – Presented by: Parham Eslami-Nejad, Vitalis	North 128 A-B
		WS: PHA 101 (TRACKS: Intro to Refrigeration; System Safety) – Presented by: Stephanie Smith, Risk Management Professionals, Inc.	North 129 A-B
3:30 PM	5:00 PM	PANEL: Sostenibilidad en la industria de HVAC-R: Aplicaciones de refrigerantes naturales en la industria para Latino América (Spanish TRACK: System Design) — Panelists: Gildardo Yañez, Bohn Mexico; Lisandro Salas, RSF; Giovanni Barletta, ACAIRE Colombia; Mario Mora Carli, Consultant, Costa Rica	North 122 A-C
4:35 PM	5:35 PM	WS: The Art of Mentoring to Unlock Potential (TRACK: Facility Management; Intro to Refrigeration-Industry Makeup) – Presented by: Lisa Knapp, Women in HVAC-R	North 124 A-B
		TP: Promoting Sustainability While remaining Competitive and Profitable (TRACKS: System Design; Carbon Tracking/Decarbonization) – Presented by: Travis Townsend, Northstar Refrigeration	North 126 A-C
		WS: An Introduction to CO2 Refrigeration Systems (TRACKS: System Design; Intro to Natural Refrigeration) – Presented by Rusty Walker, NASRC	North 127 A-C
		WS: Practical and Tactical Solutions: How the New Wave of Technology is Supporting the Industrial Refrigeration Industry (TRACK: Facility Management) – Presented by: Chris Stephenson (Tyler Noesser), Alliant Group	North 128 A-B
		WS: Sustainable Energy Savings Takes an Army (TRACK: Carbon Tracking/Decarbonization) — Presented by: Douglas Latulippe/Tony Kriel, SCS Engineers	North 129 A-B
5:00 PM	8:00 PM	Exhibit Hall Open	North Hall 5-6
5:10 PM	5:35 PM	Product Showcase #15 by FB Group – Leading the Way In sustainable Refrigeration: R290, NH3 and CO2 Solutions	North Hall 5-6
5:45 PM	6:10 PM	Product Showcase #16 by Frascold USA – <i>Products For Any Temperature: -80 to 320 Degrees F</i> – Presenter: Matteo lobbi	North Hall 5-6
6:00 PM	8:00 PM	Exhibitor Reception	North Hall 5-6
6:10 PM		Tuesday Drone Raffle Drawing – Sponsored by Bassett Mechanical	Bassett's Booth: #302
6:20 PM	6:45 PM	Product Showcase #17 by Nexus Refrigeration – Refrigology: The Future of Online Training – Presenters: Mark Malagon, P.E. and Benjamin Clark	North Hall 5-6
Wednesda	y, March 5		
7:00 AM	8:00 AM	Breakfast outside Closing Forum	North 120 Prefunction
8:00 AM	10:00 AM	CLOSING FORUM – Cautionary Tales for Refrigeration End Users; Key Considerations for Plant Managers (TRACKS: System Safety; Facility Management) – Panelists: Mike Lamers, Cargill; Kris Hinds, Nesltel; Bob Port, ConAgra; Tom Funk C&S Wholesale Grocers; Tony Easterwood, Americold	North 120 C-D
8:00 AM	5:00 PM	Expo Hall Tear Down	North Hall 5-6

IIAR EDUCATION PROGRAM

Enhancing Knowledge, Skills, and Professional Development

The IIAR Conference Education Program is your gateway to unparalleled learning and professional growth in the natural refrigeration industry. During the Annual Conference Education Program, experts will share their knowledge and latest advancements, providing attendees with invaluable insights and takeaways. This year, we are excited to unveil a new and improved method of delivering these presentations, featuring diversified topics organized into specific industry tracks tailored to our audience groups:

Design Engineers • End Users • Compliance Specialists • Operators/Technicians • Contractors & Manufacturers

Our 2025 Education Program will feature almost 40 presentations, ensuring there is a wealth of information to enhance your knowledge and skills. By attending these sessions, you'll have the opportunity to earn Professional Development Hours (PDH) while deepening your understanding of crucial industry topics.

Overview of Education Tracks

System Design: Explore design concepts that promote the safe, dependable, and efficient construction of natural refrigerant systems. This track features academic studies, research findings, case studies, and innovative approaches. *Essential for Design Engineers, Contractors, and those interested in cutting-edge advancements.*

Carbon Tracking/Decarbonization: Gain insights into energy-efficient design techniques, system controls, and data analysis methods that reduce carbon footprints. Presentations will also cover experiences with incentive programs for energy savings. *Highly relevant to Compliance Specialists, End Users, and anyone looking to maximize system efficiency while minimizing environmental impact.*

System Safety: Focus on safety and regulatory compliance through presentations that explore maintenance procedures, operational methods, and innovative practices. Learn about the critical importance of safety in system operations. *Vital for Operators/Technicians, Compliance Specialists, and Facility Managers.*

Facility Management: Discover strategies for effective facility operations, cost management, and minimizing system downtime. *Insights for owners and operators, highlighting practical solutions for successful business operations.*

Heat Pumps: Deepen your understanding of heat pump system applications and design. This track features discussions on design parameters, construction methods, and practical case studies. *Valuable content for Design Engineers and Contractors seeking to implement heat pump technology effectively.*

Introduction to Refrigeration: Perfect for students and newcomers, this track introduces the fundamental concepts, applications, and benefits of natural refrigerant technologies. *Engaging for students, novices eager to enter this natural refrigeration industry as well as seasoned professionals who would like a review.*

Featured Education Event: "Closing Forum: End User Panel"

As a highlight of our Education Program, join us on the final day of the conference, Wednesday morning, for our **Closing Forum: End User Panel**. This engaging and insightful panel will feature end users sharing their real-world experiences and offering solutions to common industry challenges. Gain valuable perspectives from those on the front lines of natural refrigeration, as they address issues that impact everyday operations and present actionable strategies for improvement. This session is a must-attend event for anyone seeking practical knowledge and collaborative solutions.

Attending the IIAR Conference Education Program will equip you with knowledge, skills, and connections that will advance your career and expertise in natural refrigeration. Whether you are a seasoned professional or new to the industry, there is something for everyone. Don't miss this opportunity to learn from the best and gain valuable professional development hours. We look forward to welcoming you to an exceptional educational experience.

TECHNICAL PRESENTATION AWARD WINNERS

Each year, the IIAR recognizes the authors and presenters of the best technical paper presentations in English and international languages. 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. Award recipients also receive a free registration for next year's conference, and perhaps most importantly the acknowledgement from their peers for a job well done.

TODD JEKEL

The selection of the award is based on evaluations provided by attendees on the conference app. The scores are tallied and weighted by attendance. This year had many excellent papers and numerous engaging presentations. The scoring was very close, but Todd Jekel (University of Wisconsin Madison) is the winner of IIAR's 2024 Award for Presentation Excellence for the English presentation of his paper titled "Application and Considerations for Internal Relief in Industrial Refrigeration Systems." Todd is a longtime contributor to NRF research projects, so it's especially fitting for him to be presented with this year's award.



CHRISTIAN ALI MUÑOZ DURAN



We also wish to acknowledge our colleagues who contribute non-English papers to the program. We wouldn't be an international organization without their dedication to natural refrigerants. It is with great appreciation and pleasure that we also present Christian Ali Muñoz Duran (MR Braz & Associates, PLLC) with IIAR's 2024 Award for Presentation Excellence for his paper titled "Paquetes de carga crítica de amoníaco DX versus sistema centralizados de amoníaco recirculado, como alternativas de solución para sistemas de refrigeración industrial.

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Product Showcase Presentation #14

Tuesday, March 4 North Hall 5-6 12:05 PM



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MONDAY NIGHT EVENT

810 BILLIARDS & BOWLING

Monday, March 3, 2025 6:30 PM - 9:30 PM

Kick off the week with a night of excitement at our special event at 810 Billiards & Bowling! Join us on Monday night for an evening filled with friendly competition, laughter, and great company.

What to Expect:

Bowling: Show off your skills on the lanes and compete for fun prizes.

Billiards: Challenge your friends to a game of pool in a relaxed atmosphere.

Food & Drinks: Enjoy delicious snacks and refreshing beverages.

Socializing: Meet fellow attendees and make new friends in a relaxed setting.

Dueling Pianos: Enjoy an interactive musical show where two pianists perform songs on facing pianos, often incorporating audience requests, humor, and friendly competition. It's a lively experience filled with sing-alongs, variety, and high-energy entertainment.

Whether you're a pro or just looking to have a good time, this event is perfect for everyone! Don't miss out on the chance to unwind and have fun after a day of learning and networking.

You must have your badge to attend the event.

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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.





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IIAR 2025 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.

IIAR E-READER APP!



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HOW TO ACCESS AND ACTIVATE YOUR IIAR MEMBERKIT LIBRARY

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IIAR App

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

If you are an IIAR group member and wish to be listed in the Natural Refrigeration Directory, scan this QR code to submit your information.



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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

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

Special Membership Categories

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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

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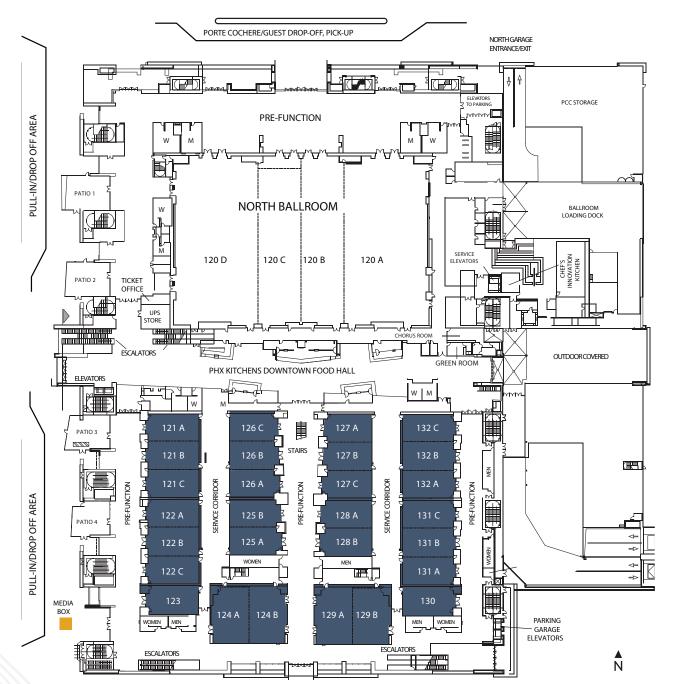
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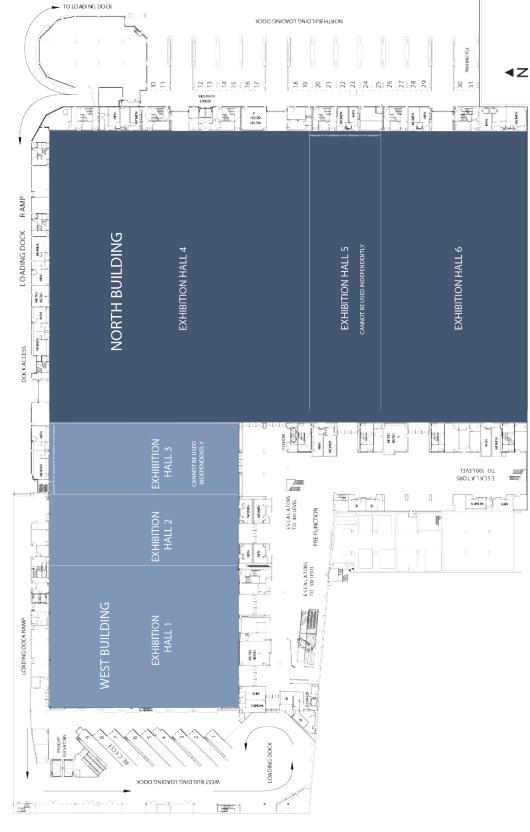
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FREEMAN SERVICE SEATING AREA		SEATING		Refriguention TRUCK PAVILION	667	AREA	PRODUCT SHOWCASE THEATER		
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V	Howe Cappo 139 Garrier Extol	thermofin LEWA 243 243 Cornell Pump Produ 338	CT1. Gas Detection Specialists 339	IIAR CONNECTION CENTER		Battimore Aircoil Company, Inc.	Gamma Cold Core 739 741 Therm Infermental Seal al Seal 840 838 840	Kolbi Phoen Pie R 843 843 Alliant Alliant 938 940 942	SEATI
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True North Water 104 106	Macur NH3 JS co Traini Compl 103 105 107 ARTIC Super Rigidi Servic Radia zed 202 204 206	Bitzer US, Inc. 2008 203 2007 203 Bassett Safety 302 306	Jamis OF Piping 305 305 Innovative 402	EVAPCO 403	GEA Heating and Refrigeration 503	Colmac Coll Manufacturing Inc.	FrickJCI, M&M Carnot, Logix Controls	703	lsotherm, Inc. 903

ENTRANCE

ACAIRE is an NGO based in Colombia, which promotes the knowledge and best practices around the application of engineering and technology for HVAC&R and energy districts, through our training portfolio, expo and associative activities.

Airfoil Impellers Corporation424

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

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American Refrigeration . . 615

American Refrigeration provides Construction, Service, Parts, and Engineering for Industrial Refrigeration.

API Heat Transfer.....125

API Heat Transfer has successfully established itself as the market leader in innovative and energy efficient equipment. Our 140-year heritage includes a family of 6 brands and has been dedicated to designing and delivering world-class high-performance heat transfer products for almost every industry.

Applied Process Cooling Corporation 828

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.

APSM546

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.

APR Plastic Fabricating . .761

APR Plastic Fabrication is a leading manufacturer and distributor of custom designed and fabricated plastic tanks, liners, secondary containment systems, and process tanks for the metal finishing and waste treatment industries.

ARTIC Services is a training and compliance service company.

ASTI919

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."

ATMOsphere921

ATMOsphere umbrella brand offers a one-stop solution for investors, end users, OEMs and others who want to scale up and clean up cooling solutions. We have developed a comprehensive offering to assist you in transitioning to more sustainable technologies - globally and at scale.

Baltimore Aircoil Company639

BAC is a worldwide manufacturer of heat transfer and ice thermal storage products. BAC's products include evaporative condensers, cooling towers, closed circuit cooling towers, ice thermal storage systems and equipment controls. More information at www.BaltimoreAircoil.com.

Bassett Mechanical302

Bassett Mechanical is a unique fullservice contractor providing complete design, engineering, fabrication, installation, and preventive maintenance service solutions for our customer's industrial refrigeration, HVAC, plumbing, metal fabricating, and service needs.

Bitzer US, Inc./ VaCom Technologies 203

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.

Cal Therm Insulation 550

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, nd quality at a competitive price.

EXHIBITOR LISTING

California Controlled Atmosphere dba CCA Technologies232

CCA Technologies carries the complete line of Tattle products from the Tattle original, the eTattle and all new the Tattle HP (high pressure). Safety, Affordability and Sustainability in one product.

CAMCO Lubricants228

CAMCO Lubricants has been the leading Independent manufacturer and supplier of industrial refrigeration and food grade lubricants for over 35 years. CAMCO means quality, reliability, performance and efficiency. Stop by Booth 340 to learn about the CAMCO difference.

Carlyle Compressor.....225

Carlyle is a world leader in compressor technology, manufacturing a broad range of Reciprocating and Screw compressors for use in any temperature applications. Our products can be found around the world from the first nuclear sub to your grocer's freezer to entire bus fleets

Century Refrigeration . . . 667

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.

Certified Industrial Partners559

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.

Chester-Jensen415

Since 1914, Chester-Jensen has manufactured heat transfer equipment such as our Air Agitated Ice Builder, Falling Film Chiller and Plate Heat Exchanger.

CIMCO Refrigeration Inc.. .623

CIMCO is the largest industrial refrigeration contractor in North America and the largest vendor for most major refrigeration suppliers in the industry, with 7,000+ customers, 1,500+ service contracts, and 1,200 employees dedicated to refrigeration.

Founded in 1971, Clauger is a familyowned company with expertise in innovative, sustainable solutions for industrial refrigeration systems & air treatment. We offer engineering, manufacturing, installation, parts and service for our clients at every stage of their project.

Climate by Design International......747

CDI manufactures Critical Process
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(NoThruMetal) design casing meets
the demands of low temperature
environments without condensing.

Cold Core Group741

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......603

Colmac Coil manufactures new and replacement plate fin heating and cooling coils, dry coolers, air-cooled condensers, and heat pipe air-to-air heat exchangers for the commercial, industrial, and heat transfer markets.

Cool Air Incorporated manufactures ammonia leak detectors for industrial refrigeration industries. Our leak detectors are reliable and are the easiest to maintain of any detector on the market today.

Cool Air Mechanical.....718

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!

CoolSys......510

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.

Cornell Pump Company338

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.

CrossnoKaye207

CrossnoKaye is deploying the ATLAS Platform: an intelligent Cloud Control software that uses physics-based machine learning and predictive analytics to optimize operations and unlock energy-saving opportunities.

CTI Gas Detection Specialists339

CTI is a leading manufacturer of gas detection products for industrial facilities. CTI specializes in the detection of Ammonia and Carbon Dioxide, but also provides excellent detectors for most other refrigerants. CTI detectors thrive in harsh conditions and are in-stock.

Cyrus Shank.....110

Cyrus-Shank products have come to be the Gold Standard in the refrigeration industry. Innovation, advanced engineering, and an unwavering commitment to quality insure, that we are setting new standards for dependability and exceptional reliability of Refrigeration Valves. Regardless of which category of valve, Cyrus-Shank sets the standard. No wonder high-tech Aero-Space firms such as Air-Bus, Boeing and NASA demand Cyrus-Shank!

With over 80 years' experience, Danfoss develops and supplies products for advanced, environmentally-friendly Industrial Refrigeration installations. With our wide range of components, we reduce complexity and optimize project deliveries.

Delta Tee International, Inc......622

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.....411

Dorin has always believed in natural refrigerants and plays a leading role in the development of sustainable solutions in the refrigeration and air/conditioning sector especially with its CO2 compressors range.

Enerflex energy Systems714

Enerflex Energy Systems Equipment supplier, packager Field construction Design build contractor

EVAPCO403

EVAPCO is a worldwide leader in the design and manufacture of industrial refrigeration systems and components. 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.....242

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.

FB Group247

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

Fisher Refrigeration, Inc. .455

Since 1959 Fisher Refrigeration, Inc. has served the Food & Beverage, Cold Storage, Pharmaceutical and Petro-Chem markets as a design-build industrial refrigeration contractor.

Frascold USA553

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

Frick Industrial Refrigeration703

FRICK®. The Leader in Industrial Refrigeration offers equipment for Food and Beverage applications: , Compressor Packages, Packaged Systems, Condensers, Evaporators, Heat Exchangers, Hygienic Air Handlers, Heat Pumps, Controls, Vessels and replacement parts.

Fujiaire US LLC355

AXTELL is an independent trademark holder for HVAC in North America. Our comprehensive portfolio spans residential, commercial, and industrial applications, combining our profound knowledge of global HVAC markets with strategic Chinese supply chain advantages to create exceptional value for our clients.

Design, engineer, and fabricate large modular equipment rooms (MER) for industrial refrigeration systems. All compressor packages, heat exchangers, controls and power panels are sent to our factory and integrated into the MER. The MER is disassembled, shipped in sections, and reassembled onsite in day(s).

G&L Corporation353

Industrial Refrigeration Contractors specializing in design build projects.

Gamma Graphics Services (GGS)......739

Trusted for 20+ years, Gamma Graphics Services (GGS) provides Non-Destructive Testing on piping and vessels. Our NDT technology is optimal for NH3 refrigeration and reporting equips you with what you need for PSM & RMP compliance, early detection and maintenance decisions.

Garden City Ammonia Program (GCAP, LLC)....716

GCAP is the world's largest technical school, training over 3000 operators/engineers/managers yearly. Having the industry's largest hands-on labs, we specialize in industrial ammonia refrigeration, CO2, boilers and PSM/RMP compliance training/services.

Gartner Refrigeration ...238

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."

Screw and piston compressor packages, controls, chillers, heat pumps and custom-engineered systems. GEA service includes preventative & predictive maintenance, compressor rebuilds, on-site technical expertise, control-panel retrofits, original spare parts, and training.

General Refrigeration Company331

Providing innovative solutions, quality workmanship, and expert personnel, General Refrigeration Company can handle all your refrigeration and piping needs!

Genesis International ...325

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

EXHIBITOR LISTING

GF Piping Systems305

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. Systems feature noncorroding, light weight, UV resistant, energy-efficient, and maintenance-free performance.

Güntner US LLC.....513

With over 90 years of leading engineering solutions, we offer a wide variety of air coolers, dry coolers, evaporative condensers, and gas coolers for commercial and industrial refrigeration, industrial process, energy & power, HVAC, & IT cooling applications.

H.A. Phillips & Co.321

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

Hansen Supply Co.....230

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.

Hantemp Controls 619

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 Associates733

HCG Associates has offices around the US & delivers cost effective safety and EHS consulting services. HCG builds strong relationships with our clients through the delivery of customized solutions which allows our partners to alleviate the burdensome aspects of compliance.

Heatcraft Refrigeration631

Heatcraft Refrigeration Products is a leading manufacturer of commercial and industrial refrigeration equipment, systems and service solutions ideal for large cold storage and process cooling applications.

Henry Technologies 752

Henry Technologies manufactures quality components for the industrial and commercial refrigeration industry at a competitive price. Our product offering includes oil separators, oil level regulators, discharge mufflers, liquid receivers, flash gas receivers, suction accumulators, pressure relief valves, 3 way valves, rupture discs, packless valves, sealed filter driers, replaceable core drier shells, ball valves, rotolock valves, sight glasses, check valves, level detection sensors and liquid level probes. Our goal is to be the preferred provider of technologically innovative and robust engineered refrigeration products.

Hermetic Pumps, Inc....447

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.

Houghton Chemical.....831

Houghton Chemical is a fourth generation inhibited glycol manufacturer and service company. Our products include: propylene (SAFE-T-THERM), ethylene (WINTREX), biobased, renewable, and aluminum-safe glycols. Our service is unmatchable.

Howden259

Howden builds, installs and services world-class durable screw compressors for mission critical air and gas handling. With worldwide expertise in refrigeration, gas reliquification, gas compression and cryogenics, we deliver optimum performance for a safe sustainable future.

Howe Corporation.....139

Howe Corporation is a 110-year old manufacturing company specializing in flake ice machines for food retail and industrial processing applications. Our natural refrigerant lineup also includes recirculated and DX CO2 models, as well as 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 Ltd750

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.

iENG Design924

iENG is one of the fastest-growing, full-service design and engineering firms in the U.S. Our engineers and designers have decades of experience in designing commercial, institutional, manufacturing/industrial, and heavy industrial projects. We use BIM/VDC/3D coordination as a bridge between engineering and construction. iENG is a proactive design-build/

design-assist partner, becoming involved throughout every stage of preconstruction and we provide expert insights that enable project stakeholders to maximize initial cost efficiencies and long-term value.

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! For more information www.ammonia.com

Industrial Refrigeration Pros......454

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 LLC833

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

Insul-Therm Intl322

Insul-Therm is a leader in fabricated insulation systems. We offer a full line of insulation products, and accessories for low temperature applications including; polyiso, XPS, Foamglas, and phenolic insulation.

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 220

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

Isotherm, Inc......903

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 Company303

Products include high performance Jamison Cold Storage Doors, HCR Air Doors, Sound Reduction and Specialty Doors, Jamotuf Architectural Style Doors, and High Performance Doors.

JS Compliance LLC 107

JSC is a a Professional Compliance Services firm that provides OHSA 1910.119 Process Safety Management and EPA 40 CFR Part 68 Risk Management Plan services nation-wide and in Canada. www.JSCompliance. com

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.

Keltec-Technolab, Inc. . . . 254

Oil Coalescers for refrigeration compression systems

Kelvin Group729

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 world-class mechanical systems.

Kolbi Pipe Marker Co. . . . 839

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.

Krack Corporation 459

Krack By Hussmann is a world leader in the development, manufacture and sale of commercial coils, condensers, condensing units and process cooling equipment. For nearly 90 years, Krack has been committed to delivering products with design leadership and innovation that provide customer-focused solutions for all your commercial and heavy industrial refrigeration needs.

Lanham Insulation Inc. . . 617

For over 30 years, Lanham Insulation has provided 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. Lanham's team of industry-leading insulation professionals 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 Engineering751

Laporte provides high-value engineering services to pharmaceutical, agrifood and bioindustrial facilities. We specialize in detailed design of ammonia and carbon dioxide industrial refrigeration systems; safety and regulatory compliance; and energy analysis and optimization.

EXHIBITOR LISTING

LEWA America, Inc. 243

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. The E-Monitor bearing monitoring system is the most advanced device of its kind in the industry.

Linde is a leading global industrial gases company. We live our mission of making our world more productive every day by providing high-quality gases, technologies and services which are making our customers more successful and helping to sustain and protect our planet.

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 of transcritical CO2. It can counts on 19 production facilities in Europe, Asia and USA.

Macurco Gas Detection. .103

Macurco Inc. is a leading global provider of rapidly deployable connected, intelligent gas detection systems that enable real-time safety and toxic threat detection. Macurco designs, develops and manufactures a full set of fixed and portable gas detection monitors for the protection of workers, responders and the community.

Marking Services, Inc. . . . 453

We offer Food & Beverage Facilities labeling, tagging, and a full range of services including engineering, mobile technology and turnkey label installation in addition to "as-built" P&ID's.

Mayekawa MYCOM.....421

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.....931

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 & Hunt450

As a national engineering, architecture, and construction firm we have been providing solutions to manufacturers since 1949. Our team specializes in ammonia systems, from design to parts and equipment.

Mechanic Refrigeration Company, Inc.....552

Mechanic Refrigeration Co. is a full service, Company that offers Design and Build, service, Parts, and Compressor Rebuilding. We Currently have Offices in Cypress Ca. and in Visalia Ca.

Mid-States Refrigeration Supply, Inc917

At Mid-States Refrigeration Supply, Inc., we specialize in natural refrigerants, highly efficient equipment, and custom refrigeration systems tailored to meet the unique needs of our customers. Our mission is to be the "easy button" for our clients—offering seamless solutions that simplify operations and drive success. With over 90 years of manufacturing and industry expertise, we are

dedicated to empowering businesses with innovative, energy-efficient refrigeration solutions and unparalleled customer support.

MIRO Industries......860

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....430

With decades of experience in industrial refrigeration, MRBraz's capabilities include CFD design, design-build construction, manufacturing of VWMB DX Packages and technical support. We spearhead sustainability with low charge and eco-friendly refrigeration systems.

MSA Safety306

MSA Bacharach provides gas leak detection with remote connectivity, providing data-driven insight for leak detection and resolution, which reduces refrigerant emissions and reportable emissions events.

Nalco Water, an Ecolab Company452

Nalco Water is the global leader in water management. We can help optimize your sites's water systems to bring measurable improvements in operational efficiency, sustainability and quality.

NASRC923

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.

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....121

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.

NH3 Training Center of Texas......105

Offering Introductory and Advanced Training Courses for the Ammonia Refrigeration Industry to meet regulatory compliance guidelines. NH3 Training Center of Texas, LLC was founded to close the gap for the need of training in State and Federal Regulations as they pertain to the Ammonia Refrigeration Industry..

Northwest Technical Institute106

Mission Statement "Changing lives through education, training, and skill development." NWTI's Role In The Community Northwest Technical Institute has developed courses and programs intended to strengthen basic, occupational, and technical skills necessary for adults to become economically self-sufficient and provide agriculture, business, health services, industry, and government with skilled employees to support their respective ventures.

Old World Industries 324

Old World Industries supplies THERMAL CHARGE Heat Transfer Fluids that provide the best protection for HVAC Systems, Stationary Engines, Heat Exchangers, Cooling Towers, and Chillers.

Owens Corning842

Owens Corning® FOAMULAR® XPS
Pipe Insulation has excellent durability,
thermal and moisture properties
combined with quality fabricators.
Owens Corning has the quality and
technical support needed to meet the
challenges of the low temperature
market.

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 ammonia and halocarbon refrigerants.

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

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 843

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,

Polyguard specializes in Weatherproof Jacketing and Vapor Barrier Membranes for Mechanical insulation industry.

Products: Alumaguard®, Insulrap™,
ZeroPerm®, RG-2400® ReactiveGel®,
VaporGuard™,and "Cold Service"
System including Dow Styrofoam®
XPS and PolyPhen insulation.

PROtect.....351

PROtect is a leading national provider of Safety, Reliability, and Compliance Services. 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 Mission: Build lasting relationships through earned trust by delivering services with reliability and integrity. Our Goal: Produce strong financial and strategic outcomes for clients.

RefPlus offers a complete line of refrigeration equipment, including CO2, from small standard units to the most complex systems in the industry. RefPlus takes pride in its customization capabilities to offer the most efficient and tailored solutions.

Refrigeration Systems Construction & Service

Co552

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

Republic Refrigeration. . .710

Industrial refrigeration system design, modular packaged refrigeration systems, equipment skids, Process Safety Management and Risk Management Services, pipe installation, refrigeration controls, control and power wiring, parts, service quality, integrity, and performance.

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.

EXHIBITOR LISTING

Rigidized Metals Corporation206

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 is a Process Safety engineering consultancy with over 25 years' experience. Whether you need expertise in regulatory compliance or facility support, we develop Federal and State-specific prevention programs, PHAs, Audits, IIAR 9 Analyses & more.

Environmental Engineering and
Consulting Services focusing on PSM
& RMP compliance for ammonia
refrigerated facilities. Services include
PSM & RMP development, Compliance
Audits, MI Inspections, Industrial
Refrigeration, PSM, and HAZWOPER
Training, and overall consulting.

Sensor Electronics Corporation558

Sensor Electronics designs and manufactures gas detectors and gas analyzers. Our patented infrared combustible gas detectors are installed at many facilities, continuously monitoring and alarming if a gas leak occurs. Visit with a factory representative at our booth and see a live demonstration.

ServiceTrade928

Purpose-built for refrigeration commercial contractors, ServiceTrade is a software as a service platform that helps coordinate office staff and technicians to deliver an amazing customer experience for service and project work.

SGS Refrigeration/SPX Cooling Technology.....523

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. . .611

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. . .853

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.

S+S Regeltechnik USA . . 756

S+S Regeltechnik is a European market leader in advanced sensor technology for measuring and control needs in the fields of facility automation and mechanical engineering. Our product portfolio includes sensors for temperature, humidity, dew point, air quality, occupancy, pressure, flow, room controllers and more. Our sensors feature a sleek, modern design that fits seamlessly into any residential or commercial building, cruise ships, hotels, airports - combining performance and aesthetics with ease of installation.

Sofrigam.....755

For 45 years, Sofrigam history has been marked by an expertise dedicated to making thermodynamics accessible so we can put it to work for life and living beings. From day one, we have been meeting our customers' challenges by innovating and offering excellent solutions for temperature

control. A family adventure, enriched by collaborators, partners, and customers, around thermodynamics as a powerful tool for change. THERMODYNAMICS FOR LIFE.

Stellar offers the industry's most comprehensive range of self-performed refrigeration services including design & installation, packaged pump solutions, remote monitoring of systems, compressor rebuilds, parts and service, PSM programs & management & digital PSM software.

Storm Technologies.....613

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

Summit Lubrication....417

Summit Industrial Products is a manufacturer of synthetic lubricants which include several ammonia refrigeration and food grade lubricants are NSF H1 certified. Summit also manufactures descalers/degreasers and oil/water separators.

Super Radiator Coil 204

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).

Synergy.......250

Synergy Refrigeration offers a full line of industrial refrigeration services. From design, to startup, to service after the sale, Synergy is here to serve all of your industrial refrigeration needs.

Teikoku USA Inc. 911

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, Safety and reducing downtime.

Temprite specializes in energyefficient 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).

TH. WITT Kältemaschinenfabrik GmbH621

TH. WITT - Your partner for industrial refrigeration. For 125 years we us the advantages of the natural refrigerants ammonia & carbon dioxide. We are specialised in: - pumping liquid refrigerants, - expansion technology - oil recovery Designed & produced in Aachen, Germany

Thermal Seal Duct Systems838

Refrigeration Duct Work.

Thermofin Canada Inc. . . 449

Thermofin is a Canadian company employing a hundred employees. Thermofin has developed since 1993 a strong expertise in custom heat exchangers, and acquired the company DOCAL, the refrigeration specialist.

thermofin GmbH239

A global air heat exchanger supplier company. Products: evaporator, evaporative condenser units, gas coolers, dry coolers, and other types of AHE for Natural refrigerants.

True Water Services. 102

Welcome to Vital Positive Technology, home of the revolutionary Proof Positive Induction Technology System—a breakthrough in industrial cooling efficiency. Our innovative apparatus is engineered to redefine performance for evaporative condensers and cooling towers, delivering proven results.

Turbo Products, LLC342

As the original developer of Pillow Plate Laser Welding machines and 50 years of combined global manufacturing experience, Omega's Laser Plates are used as integral tank construction and custom heat exchangers designs for various industries and Falling Film Chillers.

Applying refrigeration expertise, VaCom provides control and performance solutions for industrial refrigeration systems, using advanced technologies for energy efficiency, system integration and performance monitoring, achieving reliable operation and enterprise connectivity.

Vahterus Oy 920

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.

Vilter by Copeland.....229

As a leader in industrial refrigeration, Vilter's next first will be the launch of the industry's only purposebuilt industrial CO2 transcritical compression unit. Be among the first to see this new technology in booth 411.

Viper Refrigeration556

At Viper Refrigeration, we deliver reliable, top-tier service with a customer-first approach. When you choose Viper Refrigeration, you gain a partner dedicated to your success through reliability, responsiveness, and quality service.

Vitalis848

Vitalis, founded in 2016, is a vertically integrated original equipment manufacturer (OEM) of CO2-based technologies, including R744 chillers, heat pumps, and refrigeration systems

for commercial, industrial, and district energy applications. With customers on five continents and in-country support centres spread across the globe, Vitalis is proud to support global decarbonization efforts through the deployment of reliable clean technology.

Wagner-Meinert, LLC ...846

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.

Warrender, Ltd.618

Warrender, Ltd. specializes in seal-less magnetic pump technology, seal-less high head, low NPSH transfer pumps meet zero emissions compliance, while offering any U.S. or International industrial motor specification.

WEG Electric Corp 253

WEG is committed to our communities and preserving our environment and has become a signatory of the United Nations Sustainable Development Goals.

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.

Zero Zone, Inc......547

Zero Zone designs and manufactures custom engineered halocarbon, CO2, and ammonia refrigeration systems for cold storage / distribution, ice rinks, pharmaceutical, food processing, and other industrial applications.

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 climate-positive, 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

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

The NRF Founders' Scholarship program has grown steadily since its introduction in 2016 and continues to address our industry's need for technically trained individuals. Each year, scholarships are awarded to students exhibiting exceptional character and interest in pursuing an engineering or related technical degree toward a career in the refrigeration field. As part of the scholarship program, new Founders' Scholarship recipients are invited to attend the IIAR annual conference, where they participate in our education sessions and network with industry leaders.

The growing interest in education and the increased number of student applicants from the U.S. and around the globe has placed a new focus on the Founders' Scholarship program. In response to this growing demand and membership contributions, NRF is thrilled to recognize a generous educational grant from The Kahlert Foundation. These funds allow NRF to provide support for additional students who are eyeing careers in refrigeration, mechanical engineering, and/or fluid dynamics.

NRF and the Kahlert Foundation offer congratulations to the following 2024 Founders' Scholarship awardees:

Jackson Burnett (Senior), University of Arkansas

Renato H. Carreon (Junior), University of Minnesota

Hazel Ferrier (Junior), University of Wisconsin-Platteville

Justice Hawkins (Senior), Virginia Commonwealth University

Michael Hintz (Junior), West Virginia University

Arkin Kurama (Senior), University of Notre Dame

Olabode Emmanuel Obasi Nwogo (Senior), Minnesota State University, Mankato

Francesco Pedulla (Junior), Concordia University

Sophia K. Schneider (Junior), Kansas State University

Maxwell Scott (Senior), Cal Poly San Luis Obispo

Colby Unkart (Senior), Liberty University

Winters Xia (Sophomore), University of Waterloo

NRF BOARD OF DIRECTORS

NRF BOARD OF DIRECTORS 2024-2025



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William (Bill) Greulich

Research Committee Chair Kensington Consulting

Gary Schrift

IIAR President President, IIAR

Front row from left to right:

Nick Nechay, Don Fetzer, Quin Vo, John Flynn

Back row from left to right:

Dave Malinauskas, Michael McGinnis, Gary Schrift (IIAR President), Jeff Sutton, Walter Teeter

(Not shown: Bill Greulich)

NRF EVENTS!

NRF GOLF TOURNAMENT AND BINGO!

2025 Annual 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.



Saturday, March 1, 2025 1:00 PM - 5:00 PM

Arizona Grand Golf Course

- Buffet Lunch at noon
- Awards Reception following game

GOLF TOURNAMENT SPONSORED BY:





BUFFET LUNCH SPONSORED BY:



AWARDS RECEPTION SPONSORED BY:





Bingo

Join us for a fun-filled NRF Bingo game! Whether you're a seasoned player or new to the game, it's a great way to enjoy some friendly competition and win exciting prizes. Grab your friends, bring your lucky charms, and get ready for an afternoon of laughter, community, and surprises.





Don't miss out on the chance to shout "Bingo!"—we can't wait to see you there!

Sunday, March 2, 2025

2:30 PM - 4:30 PM

Room 122, Phoenix Convention Center

Registration Required. Entry Fee: \$40 per person for 7 cards, (Maximum of 2 sets of 7 cards per person, or 2 cards per round)

What to Expect:

- Multiple Rounds: Play several rounds of Bingo with varying patterns to win!
- Prizes: Exciting prizes for winners.

Why Participate?

Bingo is not just a game; it's a social experience! It promotes interaction, creates lasting memories, and brings people together. Plus, every ticket sold supports the Natural Refrigeration Foundation.

Don't miss out on the fun and don't forget to bring your competitive spirit!

For any questions you can contact us at iiarexpo@iiar.org.



NEW! NRF LOUNGE

Experience the NRF Lounge in North 121 at the Phoenix Conference 2025!

Step into tranquility at the NRF Lounge, designed for relaxation, productivity, and a touch of fun amidst the conference buzz. Nestled near the Technical Program meeting spaces, this serene oasis invites you to unwind, catch up on work, or enjoy premium espresso crafted by our skilled Barista.

Open for three hours each afternoon (Sunday, Monday, and Tuesday, 2:00 PM to 5:00 PM), the NRF Lounge is the perfect retreat for attendees in between Sunday committee meetings and Monday and Tuesday educational sessions versus returning to one's hotel.

What's Inside the NRF Lounge?

Giant Games: Take a break with oversized games that add a playful twist to your downtime.

Custom Cookies! Indulge in cookies printed with the NRF and IIAR logos, adding a sweet touch to your lounge experience.

Charging Stations: Stay powered up with branded charging stations for your devices.

Business Card Exchange: Network and connect with other attendees in a relaxed environment.

Interested in Sponsoring for 2026?

As a sponsor, you'll enjoy premium visibility with espresso coffee branding (your logo printed on every foam), branding on the espresso machine, and exclusive NRF Platinum Sponsorship Status. Showcase your support for the NRF while engaging with attendees in this unique space that blends fun, relaxation, and connection.

Join us at the NRF Lounge in North 121 where you can recharge, refocus, and reconnect!



NRF EVENT SPONSORS



THANK YOU TO OUR 2025 SPONSORS!

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GOLD









SILVER









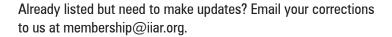


NATURAL REFRIGERATION DIRECTORY

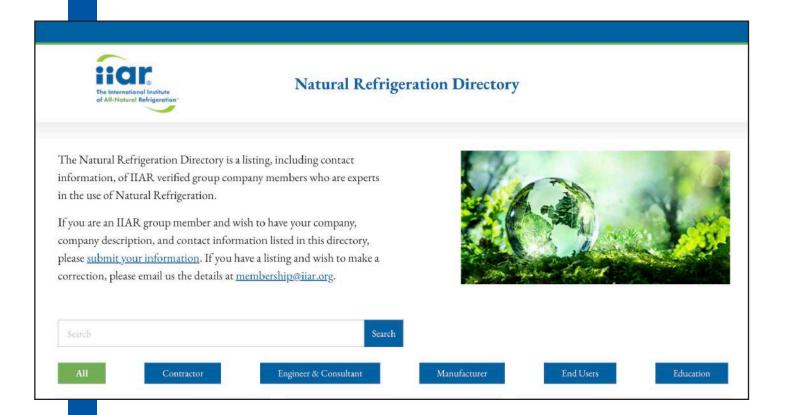
Find the Natural Refrigeration Services You Need with the IIAR Directory

The Natural Refrigeration Directory is your go-to resource for finding IIAR-verified group company members who are experts in natural refrigeration. This comprehensive listing includes company descriptions and contact information, making it easier to connect with industry leaders.

If you're an IIAR group member and would like your company featured in the directory, simply submit your information.







CONFERENCE CHATBOT

Meet IIAR's bestest boy, Apollo!

This is the conference 'chatbot' that will help answer any questions about the conference (before, during and after).





What is Apollo?

Apollo is an AI chatbot to help answer your questions about the 2025 IIAR conference.

How Do I Chat with Apollo?

If you have your phone, scan the QR code above and text "Hi". You can also text "Hi" to 1-866-548-1399 or click on the picture of the white dog with the blue scarf in the lower right hand corner of your screen.

What if Apollo Can't Answer My Question?

Apollo is still learning, and not all of the conference details may be available when you ask your question. If Apollo can't answer your question, it will point you in the right direction to find your answer!





Engagement Playbook For Annual Meeting '25

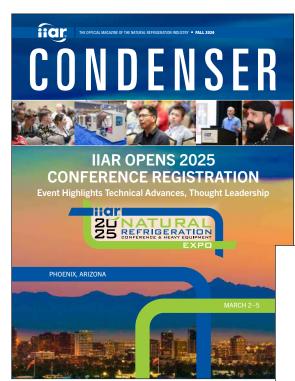




Have questions? Ask Apollo! Text 'Hi' to 1.866.548.1399 or scan the QR Code!



iiarcondenser.org



EPA Launches Region 10 Initiative for Fa Under 10,000 lbs of Ammonia

The Environmental Protection Agency has launched an initiative in the Pacific improve the safety of smaller ammonia refrigeration facilities - focused on facil 10,000 pounds of ammonia.

our articles and industry news information, but also you can access IIAR's Technical Papers and the Conference Guide!

Here, not only can you read

Condenser issues are available as a PDF downloads for both IIAR Members and Non-members, or as individual article posts.

08 | IIAR OPENS 2025 COVER CONFERENCE REGISTRATION Story **Event Highlights Technical Advances, Thought Leadership**

- IIAR Reaches End-Users and Contractors at Mexico Conference
 EPA Launches Region 10 Initiative for Facilities Under 10,000 lbs of Ammonia
- New York's Cap-and-Invest Proposal
 Could Aid the Transition to Low-GWP
 Refrigerants
 Government Relations
- 22 Lessons Learned
- 26 IIAR Standards Update

21 NATURAL 26 REFRIGERATION CONFERENCE & HEAVY EQUIPMENT

EXPO





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

