

# COLDFACTS

#### CONNECTING A VITAL INDUSTRY NOVEMBER-DECEMBER 2022

333334

111111111

### Inland COVER STORY 12 Ports Offer **Cold Chain Efficiencies**

**Optimizing the** movement of goods leaving coastal ports.

### 08

**EPA** Proposes Changes to the RMP

### 22

Seven Wonders: **CEBA Built by** the Best Award

### 30

WFLO Institute -**Transferring Expert** Knowledge

# $\mathsf{RG}_2400^{\circ}$

Corrosion is the enemy. RG-2400 is the solution. Industry leader offering proven products.



Corros

ReactiveGel\*

### 1 GALLON PAIL (128 Fluid Dunces; 3.8 Liters)

The main interview of the second seco

The second second is the second second with the second sec

HMIS Rating: Health - 1, Flammability - 1, Physic accommod barg theatth - 1, Flammability - 1, Physic US, Part 7, 566 903, 6,010,964, 6,017,867, 6,313 Other U.S. and Non-U.S. Parants Pending

> Lot# OSHA Hazaro Warn Skin, Eye, & Resp

Polyguard RG-2400 Corrosion Control Gel responds with elements of new and existing steel pipe to form an ultra-thin glasslike protective surface. This layer of protection will fight off everything nature throws at it.

pg

www.Polyguard.com - 214-515-5000



# Cold Storage Perfected

Light Mesa

Partition

**Welcome to TrueCore,** where cold storage insulated metal panel systems aren't just a part of our business – they are our business.

Flute

Built on a legacy of industry expertise in the cold storage market, the TrueCore IMP lineup features unrivaled solutions for your next cold storage build.

### See the full lineup at truecorepanels.com



### **DEPARTMENTS**

- 34 Cold Chain Development
- **36** Cold Chain Federation Corner
- 38 Cool Solutions
- 42 New Members
- 45 Association News
- 46 Industry Calendar
- 48 Member News
- 49 Ad Index

### COLUMNS

06 Leadoff



#### About the Cover

The refrigerated cargo capability on barges makes the Port of Virginia's inland Richmond Marine Terminal (RMT) a destination for cold cargo. See the cover article on page 12 describing how inland ports can minimize the congestion and optimize the value of coastal cargo ports. (Photo courtesy of the Virginia Port Authority.)





#### 4 COLDFACTS • NOVEMBER-DECEMBER 2022

# CONTENTS

NOVEMBER-DECEMBER 2022

### **FEATURES**

### **EPA Proposes Changes to the RMP**

GCCA participates in Agency hearing to air industry questions and concerns. *By Lowell Randel* 

22

31

#### Inland Ports Offer Cold Chain Efficiencies

Optimizing the movement of goods leaving coastal ports. *By Karen E. Thuermer* 



### Seven Wonders

A look at the 2022 CEBA Built by the Best Award contenders. *By Keith Loria* 

### WFLO Institute – Transferring Expert Knowledge

Developed by industry experts to advance expertise and best practices in temperature-controlled logistics, the Institute is back in-person!









### WHY ARE YOU CONTINUING TO WASTE ENERGY & MONEY?

### WHAT WE KNOW

Breaks in the Vapor Barrier around the perimeter and between the separation walls inside your facility form ice and condensation and are costing you tens of thousands of dollars every month.

Most local utilities and the IRS recognize Vapor Armour as a qualified energy efficiency addition under the Utilities' Programs and IRS section 179D.

Every year, money is wasted or lost on energy costs, unused utility credits, and unused IRS energy tax deductions, all while violating the FSMA, FDA and OSHA regulations.

#### **HOW WE CAN HELP**

By permanently sealing your vapor barriers you will save 17–35% in energy costs.

Vapor Armour guarantees its vapor barrier will stop ice and condensation for at least 15 years.

A Vapor Armour installation pays for itself in 3–5 years and provides an additional 10–12 years of energy savings.



VIEW OUR CASE STUDIES AT VAPORARMOUR.COM/CASE-STUDIES
 VAPOR ARMOUR, INC. | 855.437.0446 | INFO@VAPORARMOUR.COM | VAPORARMOUR.COM

### LEADOFF

### MESSAGES FROM GCCA LEADERS

#### T HAS BEEN AN HONOR TO BE YOUR WFLO CHAIRMAN FOR THE PAST YEAR, AND I'VE ENJOYED IT IMMENSELY. I TOOK ON THE ROLE WHEN COVID WAS

still wreaking havoc with the best laid plans of the organization. We finally began seeing real progress back to normalcy as evident in our ability to hold the IARW-WFLO Convention in Fall 2021.

While we were not able to host the WFLO Institutes in January 2022, we did run them in June both in Tempe, Arizona, and Atlanta, Georgia. I attended and taught at Tempe, where it was rewarding to see the students again learning from industry experts, getting to know each other and having a bit of fun, too.

Five of those future leaders were at the IARW-WFLO Convention this past October, competing for the Don Schlimme Future Leader Award. They also hosted a focus session on how our industry can best attract and retain young talent, an issue we are all facing. I believe there is a great deal to learn from these young leaders about strategies the industry can undertake to make ourselves more appealing to younger generations of workers.

Another group of experts I want to acknowledge (and urge association members to use as a valuable resource) are the members of the WFLO Scientific Advisory Council. The WFLO SAC is an eminent group of food science, logistics and packaging specialists from around the world, who provide cuttingedge research and advice to all our members whenever needed. SAC is on standby to answer your toughest questions and help you with your biggest challenges.

After a slow start in early 2022 due to ongoing Covid-related restrictions, WFLO project travel has picked up, most recently to Bangladesh, Cambodia, Dominican Republic, Egypt, Republic of Georgia and Thailand. Staff have attended international meetings on the cold chain and its role in reducing food loss and waste – including meetings conducted by the United Nations in New York City this fall.

While such travel does help advance and strengthen our international development, GCCA member involvement has tripled through remote support. Examples of this support include reviewing manuals and resources or providing training and consultations over Zoom. I alluded to food loss and waste earlier, and the cold chain is a critical part of reducing these problems. To address this important issue, we have launched a new food loss and waste initiative. Partnerships have been formed with Feeding America and the Global Foodbanking Network, and a free membership category has been created for food banks and food redistribution non-profit organizations.

For a number years – certainly as long as I have been on the WFLO Board – the IARW and WFLO have shared the same strategic plan. That worked for a while, but it has become very important to the growth and future direction of the foundation arm of IARW to have its own strategic plan.

Our first step was to put together a task force of members, who along with GCCA staff, conducted a SWOT analysis, brainstormed key areas the foundation should focus on, and imagined what revised mission and vision statements should convey about the organization's role and goals. From there, we started framing out a separate strategic plan for WFLO. This draft plan was presented to the WFLO Board at the IARW-WFLO Convention.

The core tenants of the plan are Discover, Train and Apply.

By focusing on these areas, the WFLO will stay true to the work it does and needs to do. It also ensures that all of you have the tools, resources and staff to provide the world with the highest quality and safest, temperaturecontrolled products. To more accurately describe who we are, what we do, and our relationship with the larger GCCA, the WFLO has adopted a new name effective with the new year. WFLO will be known as the Global Cold Chain Foundation.

As I transition to Immediate Past Chairman of the Foundation at the end of this year, I do so knowing that WFLO weathered a global pandemic, bounced back strong and has developed a new strategic plan that ensures a bright future. Those are just three of the many reasons why the past year is forever a highlight of my five-decade cold storage career. **@** 

> DANIEL KAPLAN WFLO CHAIR

### COLDFACTS

COLD FACTS magazine is published every other month by the **Global Cold Chain Alliance** (GCCA), an organization that unites partners to be innovative leaders in the temperature-controlled products industry. The GCCA Core Partners are:

#### The International Association of Refrigerated

Warehouses (IARW), which promotes excellence in the global temperature-controlled warehouse and logistics industry.

#### The World Food Logistics Organization

(WFLO), which delivers education and research to the industry and empowers economic development by strengthening the global cold chain.

The International Refrigerated Transportation Association (IRTA), which cultivates, fosters and develops commercial and trade relations between all those engaged in the transportation and logistics of temperature-controlled commodities.

#### The Controlled Environment Building

Association (CEBA) represents the design and construction industry specializing in temperature-controlled facilities that prioritize product safety best practices. We are the source for best practices of building and maintaining the thermal envelope.

#### CONTACT US:

COLD FACTS Magazine Global Cold Chain Alliance Attn: Megan Costello 241 18th Street South Suite 620 Arlington, Virginia 22202 United States

tel +1 703 373 4300 fax +1 703 373 4301 mcostello@gcca.org | www.gcca.org

COLD FACTS welcomes editorial ideas; contact Editor-In-Chief Alexandra Walsh at +1 301 523 3318 or **awalsh@associationvision.com**. Contact Jeff Rhodes at +1 410 584 1994 or **jeff.rhodes@wearemci.com** for advertising opportunities in GCCA publications.

Design by SWALLIS Design, Dallas, Texas, USA.

While the material in this publication has been compiled with care, the Global Cold Chain Alliance (GCCA) has not validated all of the information contained herein and does not assume any responsibility for its use, accuracy, or applicability. As used above, GCCA shall mean the organization, GCCA Core Partners, and each organization's directors, officers, employees, volunteers, members, and agents.





BRUCHA has the highest quality IMP, cooler and freezer doors in the industry at the most affordable price.



# SALES MANAGER WANTED

We are growing in the US & Canada and are looking to expand our sales team.

# **Contact us today** to become a part of the future of IMP.

BRUCHA Corp. Denver, CO

(866) BRUCHA1 infousa@brucha.com www.bruchaamerica.com PANELS THAT CONNECT.



### EPA PROPOSES CHANGES TO THE RMP

GCCA participates in Agency hearing to air industry questions and concerns.

By Lowell Randel

he U.S. Environmental Protection Agency (EPA) announced August 18, 2022, that it is proposing revisions to the Risk Management Program (RMP) rule to further protect vulnerable communities from chemical accidents, especially those located near facilities with high accident rates.

According to the EPA, the proposed "Safer Communities by Chemical Accident Prevention Rule," is intended to strengthen the existing program. It includes new safeguards that have not been addressed in prior RMP rules such as enhanced employee participation and transparency for communities on safety decisions.

The EPA published its first RMP regulation in 1996. At the end of the Obama Administration in January 2017, the RMP Amendments Final Rule issued new requirements for prevention, response and public disclosure of information. However, key provisions were paused and most never went into effect. Instead, in 2019, the RMP Reconsideration Final Rule rescinded or modified some of the measures in the 2017 rule. The Biden Administration's proposal would bring back many of the policies rescinded during the Trump Administration as well as add some new elements to the RMP regulation. The EPA currently regulates approximately 12,000 facilities under the RMP program. In the cold chain industry, facilities with over 10,000 pounds of ammonia are subject to RMP.

The EPA is proposing to strengthen RMP regulations that will require some facilities to do more to prevent chemical accidents. In particular, it pertains to the types of facilities that have the most frequent or severe accidents. Changes made to the RMP rule in 2019 were identified as an action for review under President Biden's Executive Order 13990, "Protecting Public Health and the Environment and Restoring Science to Tackle the Climate Crisis."

### Summary of Proposed Changes to the RMP Rule

- Natural hazards and power loss:
  - Adding amplifying regulatory text to emphasize that natural hazards (including those that result from climate change) and loss of power are among the hazards that must be addressed in Program 2 hazard reviews and Program 3 process hazard analyses.
  - 2. Requiring a justification in the Risk Management Plan when hazard evaluation recommendations are not adopted.
- Facility siting:
  - 1. Emphasizing that facility siting should be addressed in hazard reviews and explicitly define the facility siting requirement for Program 2 hazard reviews and Program 3 process hazard analyses.
  - 2. Requiring a justification in the Risk Management Plan when facility siting hazard recommendations are not adopted.

MAC+RAK

# **COLD STORAGE RACK REPAIR EXPERTS**

#1 IN USA • LIFETIME WARRANTY ENGINEERED





ANSI

Mac Rak is the **number one** manufacturer of engineered pallet rack repair kits in the USA. All products are exclusively manufactured at our facility in Missouri. In addition, our extensive dealer network allows us to serve customers across the entire USA from coast to coast.

All products are manufactured to exceed the highest industry standards—an ideal choice for cold storage facilities. Mac Rak products are backed by the **best** impact warranty in the industry.

We provide a complete solution from inspecting your site to component design, manufacturing, and installation.

CONTACT US MACRAK.COM 815-723-7400

### • Safer technologies and alternatives analysis (STAA):

- 1. Requiring a STAA and practicability of inherently safer technologies and designs considered for:
  - a. RMP-regulated processes classified under North American Industrial Classification System (NAICS) code 324-Petroleum Manufacturing and 325-Chemical Manufacturing within one mile of another RMP-regulated facility that also has a process classified under NAICS code 324 or 325 and
  - b. RMP-regulated hydrofluoric acid alkylation processes classified under NAICS 324.
- 2. Requiring a justification in the Risk Management Plan when STAA recommendations are not adopted. Increased access to this information promotes transparency and gives more opportunities for the public to be involved.
- Root cause analysis:
  - Requiring a formal root cause analysis incident investigation when facilities have had an RMP-reportable accident.

#### • Third-party compliance audits:

- 1. Requiring the next scheduled compliance audit be a third-party audit when an RMP-regulated facility experiences:
  - a. Two RMP-reportable accidents within five years
  - b. One RMP-reportable accident within five years by a facility with a Program 3 process classified under NAICS code 324 or 325 within one mile of another RMP regulated facility that also has a process classified under NAICS code 324 or 325 or
  - c. When the agency requires a third-party audit due to conditions at the stationary source that could lead to an accidental release of a regulated substance.
- 2. Requiring a justification in the Risk Management Plan when third-party compliance audit recommendations are not adopted.

GCCA testimony highlighted industry questions and concerns with proposed provisions related to third party audits, information sharing, emergency response and new sections related to natural hazards and power loss.

#### • Employee participation:

- 1. Requiring employee participation in resolving process hazard analyses, compliance audit and incident investigation recommendations and findings.
- 2. Outlining stop work procedures in Program 3 employee participation plans.
- 3. Requiring Program 2 and Program 3 employee participation plans to include opportunities for employees to anonymously report RMPreportable accidents or other related RMP non-compliance issues.

### • Community notification of RMP accidents:

- 1. Requiring non-responding RMP facilities to develop procedures for informing the public about accidental releases.
- 2. Requiring release notification data be provided to local responders.
- 3. Ensuring a community notification system is in place for notification of RMP-reportable accidents.
- Emergency Response Exercises:
  - 1. Requiring a 10-year frequency for field exercises unless local responders indicate that frequency is infeasible.
  - 2. Requiring mandatory scope and reporting requirements for emergency response exercises.
- Enhanced Information Availability: New requirements for the facility to provide chemical hazard information upon request to residents living with six miles of the facility, in the language requested. Under the current regulation, facilities are not required to provide this information.

EPA is proposing the following compliance dates for regulated facilities:

- New STAA, incident investigation root cause analysis, third-party compliance audit, employee participation, emergency response public notification, exercise evaluation reports, and information availability provisions, three years after the effective date of the final rule.
- Revised emergency response field exercise frequency provision by March 15, 2027, or within 10 years of the date of an emergency response field exercise conducted between March 15, 2017, and the date of publication of the proposed rule in the Federal Register.
- Updates and resubmission of risk management plans with new and revised data elements, four years after the effective date of the final rule.

GCCA has been actively engaged with EPA and industry partners on this and previous RMP rulemakings.

The EPA held a series of stakeholder hearings at the end of September to receive stakeholder input on the proposed rule. GCCA participated in the hearing on September 26 and provided oral testimony. GCCA testimony highlighted industry questions and concerns with proposed provisions related to third party audits, information sharing, emergency response and new sections related to natural hazards and power loss.

GCCA will also be submitting detailed written comments and continue working with industry partners to communicate concerns with proposed changes to the RMP regulation.

LOWELL RANDEL is Senior Vice President, Government and Legal Affairs at GCCA.

EMAIL: lrandel@gcca.org



### **GREEN SPAN PROFILES** INSULATED METAL PANEL TECHNOLOGIES

MANUFACTURING SPECIFICALLY FOR THE LOW TEMP/COLD STORAGE INDUSTRY



- •Outstanding Structural Performance
- •Available in USDA Painted, Plastisol and Stainless Steel



### "Built to perform. Built to last. Built right."











J844-807-7400 ≥ info@gsplc.com

### By Karen E. Thuermer

### **COVER STORY**



### INLAND PORTS OFFER COLD CHAIN EFFICIENCIES

Optimizing the movement of goods leaving coastal ports.

ith ever increasing pressure on supply chains to improve cost structure and better optimize processes, a major focus has been on improving efficiencies. This includes the use of inland ports. Left: A partnership among the Port of Long Beach, the Utah Inland Port Authority and Union Pacific will allow cargo to be rapidly evacuated from Long Beach terminals for distribution in the intermountain west. (Photo courtesy of Utah Inland Port Authority.)



ColdPoint Logistics at Logistics Park Kansas City. (Photo courtesy of LPKC.)

"Among the advantages inland ports offer are the potential for lower priced real estate, wage rates, energy and operating costs," says Brian Beattie, President, North America West, Lineage Logistics. "They can also be considered a greener alternative due to quicker movement of containers away from congested seaports and more efficient storage capabilities."

In addition, Beattie notes inland ports deliver benefits for both import and export goods.

"Many seaports and port warehousing locations have been at capacity for a number of years," he says. "Inland port locations are providing an alternative to handle and store goods that were imported or are getting ready for export."

#### A Variety of Systems

While primarily used for break bulk and nonperishables container freight, demand for inland ports has been increasing.

Some inland ports like the Port of Virginia's Richmond Marine Terminal (RMT) in Richmond, Virginia, are physical places involved in the transloading of cargo from one transport mode to another. Others operate as statewide systems. RMT operates on 80 acres within a secure terminal and has a 1,570-foot-long wharf available for berthing and handling containers, including those that are temperature controlled. What makes this port unique is its barge service to and from the Port of Virginia in Norfolk, which offers two portable 40-plug central power units used in transporting refrigerated goods.

"We move a fair amount of cold cargo for Lidl, which has a distribution center outside of Richmond," says Joe Harris, spokesman for the Virginia Port Authority. "Richmond has always been a collection point for pushing cargo a couple of miles inland to destination."

Lidl is a large regional grocer based in Germany.

The expanded refrigerated cargo capability on barges is part of the port's larger strategic growth plan to make the port a destination for cold cargo. "There is not a lot of barge service in the United States, and ours is the oldest and most successful," Harris notes. "Lidl has experience moving containers by barge in Europe so it was comfortable with us. It was a selling point for us."

The Utah Inland Port Authority (UIPA) operates as a statewide system throughout the U.S. state of Utah. It provides what it calls "smart, sustainable and equitable logistics solutions that use a statewide, multimodal approach to increase utilization and expand commerce access throughout the state." UIPA leverages expertise, facilities and infrastructure, and capital investment to improve logistics within the statewide system.

Of note, is the agreement UIPA signed with the Port of Long Beach in California to improve cargo flows between Southern California and Utah, Colorado, Nevada and Idaho. The agreement calls for the Port of Long Beach to invest \$1 billion in rail improvements over the next 10 years, and UIPA to strengthen its ability to transfer cargo for further distribution.

"Working directly with the Port of Long Beach creates a synergy and stability that opens opportunities for Utah businesses to move goods more efficiently," says Jack Hedge, Executive Director, UIPA.

The Union Pacific (UP) Railroad is playing a part in the initiative. "UP's direct rail service between the Port of Long Beach and Salt Lake City will allow cargo to be rapidly evacuated from terminals in Long Beach for further distribution throughout the region," Hedge says. Much of that cargo currently moves by truck, he noted, and only 10% by rail.



Meanwhile, other seaports are embarking on inland ports that have been highly successful overall, but not yet successful in attracting chilled or frozen goods movement.

Among these are the inland ports operated by the Georgia Port Authority (GPA). Edward Fulford, GPA spokesman, acknowledged that there has been some interest in moving refrigerated cargo to and from GPA's Appalachian Regional Port. "However, the support infrastructure is not there at present," he says. "The containers would have to be powered by clip-on generators. While boxes are in transit via rail, no technicians are available to check the generators to ensure they are fueled and working properly. Obviously, an issue with a generator could put cargo at risk. For that reason, refrigerated containers moving via the Port of Savannah are transported overland by truck."

#### **Inland Advantages**

One of the biggest advantages to inland ports in the United States is that they offer shippers and their logistics operators planned alternatives for goods coming in or out of the country.

"If customers make decisions to increase capacity over and above our port capability, we can offer different locations to handle and "Many seaports and port warehousing locations have been at capacity for a number of years. Inland port locations are providing an alternative to handle and store goods that were imported or are getting ready for export." BRIAN BEATTIE, Lineage Logistics

store their goods," explains Beattie. "We also provide transportation data analytics to help shippers determine if these alternative locations will reduce trans spend."

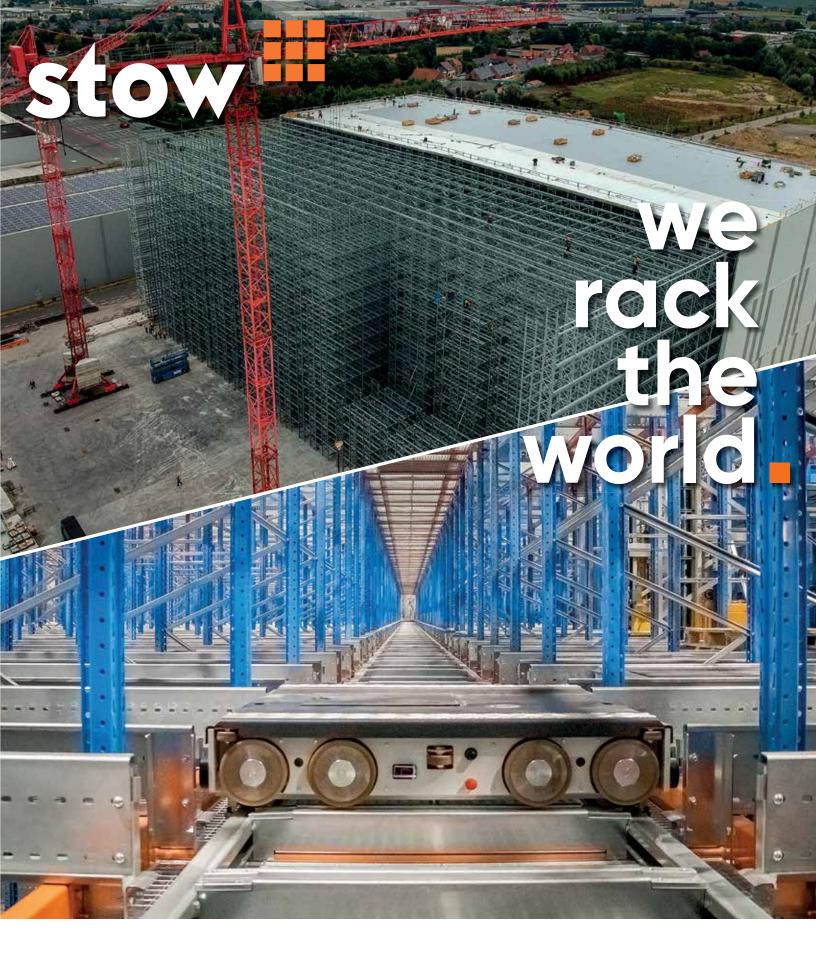
Beattie further explains that inland ports help Lineage Logistics support its customers' import and export logistics strategies as well as their domestic distribution efforts. He notes that the cities of Chicago, Atlanta and Dallas are among the most vital inland ports Lineage serves. "They are critical distribution hubs for our customers," he says. "These are the most important locations for producers and retailer/food service."

Particularly critical is the fact these locations are both truck and rail served, despite the fact over the road is still a larger percentage for Lineage's refrigerated business. "Transportation flow is important to ensure over the road carriers are accessible and rail is available ... at competitive pricing," he says.

#### **Location Location Location**

The Chicago metropolitan area, known locally as Chicagoland, is an example of an inland port where Lineage is very active.

"Customers use Chicagoland for both import and export goods, with containers both loaded and unloaded at our facilities there, and that includes domestic distribution," Beattie says. "The containers then move via rail and over the road between those facili-



### STOW-GROUP\_COM // STOW-ROBOTICS\_COM



This Lineage facility in Atlanta, Georgia, is involved in inland transloading. (Photo courtesy of Lineage Logistics.)

ties and warehouses and other distribution points for our shipper customers."

Chicagoland's long history as a logistics hub is due to the fact the Port of Chicago consists of several major port facilities within the city of Chicago and is multimodal. The port also links inland canal and river systems in the Midwestern United States to the Great Lakes region, which gives access to global shipping in the St. Lawrence Seaway and ultimately the Atlantic Ocean and Gulf of Mexico by way of the Mississippi River. As a multimodal terminal, Chicago Port and Rail LLC can handle loading or off-loading of cargo from barges, vessels, trucks and rail cars.

Similarly, Dallas, Texas, offers inland port advantages. The International Inland Port of Dallas (IIPOD) operates as an intermodal and logistics district that encompasses 7,500 acres over five municipalities.

IIPOD offers direct access to three major interstate highways with all major North American markets accessible within 48 hours by truck. It also provides access to the Union Pacific Dallas Intermodal Terminal in southern Dallas County, which provides intermodal access to the Ports of Los Angeles and Long Beach. And finally, the port connects to Foreign Trade Zone 39 that provides trade zone sites in the IIPOD area that may allow businesses to delay, reduce or eliminate customs duties on some import categories.

Other locations in the United States have also exploded as inland logistics centers. One is Logistics Park Kansas City (LPKC), a 3,000-acre, master-planned distribution and warehouse development in Edgerton, Kansas, just southwest of downtown Kansas City. LPKC is home to ColdPoint Logistics, which has expanded three times, currently operates a 650,000-square-foot cold storage facility at LPKC and has direct rail access to its facility. LPKC is served by BNSF Railway, which connects the market to the Ports of Los Angeles and Long Beach. Shipments can reach 85% of the U.S. population by truck in two days or less from LPKC. It also has capacity for 17 million square feet of industrial buildings.

"Without the rail, a facility like Logistics Park Kansas City doesn't exist," says James Oltman, President, LPKC. "Containers can arrive in Edgerton approximately two days after leaving coastal ports, making shipping through an inland port one of the most efficient ways to move goods. Services offered by the ports themselves are limited and are left to the partnerships that are formed within the cold storage industry.

In addition, co-locating at a facility like LPKC significantly reduces transportation.

"When you can calculate your drayage in feet instead of miles and multiply that by thousands of containers a year, the savings is significant," Oltman says.

But there are also downsides to utilizing inland ports for refrigerated distribution/ warehouse needs.

"It is important that there is a steady flow of containers, trucks and rail cars into and out of the port to ensure no disruptions in the supply chain," says Beattie. "Some inland ports don't have the modal units required to support the volume of goods shipped." @

**KAREN E. THUERMER** is a freelance writer based in Alexandria, Virginia, who specializes in economic and logistics issues.

EMAIL: kthuermer@aol.com

### We're building cold storage savvy into virtually everything we do



Cold storage design combines conventional materials with unconventional thinking. GAF Cold Storage experts are ready to discuss how your roofing details can control airflow and help maximize energy efficiency. gaf.com/ColdStorage



© 2022 GAF 06/22



26TH EUROPEAN COLD CHAIN CONFERENCE 20-22 MARCH 2023 BARCELONA, SPAIN

Join Temperature-Controlled Supply Chain Leaders to

> LEARN NETWORK INNOVATE

Register now at www.gcca.org/events



### When the doors are open,<sup>™</sup> BERNER AIR CURTAINS



- Temperature & Humidity Infiltration
- Condensation & Ice Buildup
- Safety & Energy Concerns

### Some companies want to sell you an air curtain, at BERNER, we want to offer a SOLUTION

**Cold Storage Applications Are Unique To Each Facility** Berner has the <u>experience</u> and <u>engineering expertise</u> to help you choose the right AIR CURTAIN and controls for your doorway.



Contact us today for a free COLD STORAGE ANALYSIS: 800-245-4455 sales@berner.com



Saving energy and creating healthy, comfortable environments





### Why $NH_3 \& CO_2$ ?

EVAPCO is focused on the innovation and manufacturing of industrial refrigeration equipment and systems designed for use with the leading two natural refrigerants in the world – NH<sub>3</sub> and CO<sub>2</sub>. Synthetic refrigerants dominated the commercial market for decades, but the passing of the American Innovation and Manufacturing Act (AIM Act) in early 2021 has solidified the phasedown of production and consumption of HFCs. Many states, and now the federal government (specifically the EPA), started this initiative, and are now executing it, because of the harmful effects HFCs have on the environment.

Today, and long into the future, natural refrigerants are the most climate-friendly solutions available in the industry. Ammonia (R-717) is the most environmentally friendly refrigerant available because it has a 0 rating for Ozone Depletion Potential (ODP) and Global Warming Potential (GWP). These environmental benefits, combined with the refrigerant's unmatched thermodynamic properties and energy efficiency have made it the most widely used low temperature refrigerant in the world. Carbon Dioxide (R-744) is gaining more traction in the refrigeration industry as an alternative to synthetic refrigerants. With an ODP of 0 and a GWP of 1,  $CO_2$ is a very eco-friendly refrigerant. Also, some end users may choose  $CO_2$  over NH<sub>3</sub> because of the lower toxicity.



With the phasedown of HFCs in full swing, we expect  $NH_3$  and  $CO_2$  to become the go to refrigerant solutions for the foreseeable future, and **EVAPCO offers you both technologies!** 

### **Evapcold®** Ammonia Safety with Huge Energy Savings

Get the best of both worlds with Evapcold®, the factory assembled, low charge ammonia refrigeration system that sets the bar for both safety and sustainability.



Requiring just a fraction of the R-717 charge associated with traditional field-built systems, each Evapcold<sup>®</sup> unit is expertly crafted as a single-source, quick-to-install solution. The entire system offers simple plug-and-play installation and faster startups with significantly less on-site labor than its field-built alternatives.

Evapcold® LCR products include several state-of-the-art innovations in heat transfer technology, energy efficiency and microprocessor control for reliable low charge operation. EVAPCO has invested heavily, and continues to do so, in developing new models and configurations under the Evapcold® brand and the product model nomenclature "LCR" (Low Charge Refrigeration). This includes LCR-P Penthouse units, LCR-C Chillers and the new LCR-S Split system units.

### **EVAPCO LMP** Complete CO2 Systems

EVAPCO LMP Transcritical CO<sub>2</sub> Systems are a great choice for many applications, including Cold Storages. These systems offer an efficient, environmentally friendly and sustainable solution for your refrigeration needs. Combining the LMP Transcritical package with EVAPCO's certifiable high pressure CO<sub>2</sub> evaporators and industrial eco-Air<sup>TM</sup> gas cooler on your next project will ensure the highest system efficiencies plus single source responsibility from your trusted partner, EVAPCO.

The patented flagship Purity line of transcritical CO<sub>2</sub> systems is suitable for blast, freezer, medium and high temperature applications. EVAPCO LMP also supports secondary fluid applications with its Yellowstone pumping station package. All EVAPCO LMP systems are designed and manufactured with simple installation and rapid commissioning in mind.

### Because you have a

Natural Choice.





Visit us at evapco.com and evapcolmp.ca



he Built by the Best award, created by the Controlled Environment Building Association (CEBA), a core partner of the Global Cold Chain Alliance (GCCA), has been honoring the top innovative construction designs in controlled environment buildings across the globe for the past six years.

In 2022, the competition saw hundreds of admirable entries from CEBA association members, with seven projects chosen as finalists for this year's Built by the Best award.

Many of the seven Built by the Best Award finalists presented a case study on their projects during the 42nd CEBA Conference & Expo, November 7-10, in Amelia Island, Florida.

Following is a look at the seven companies and their projects that will be vying for the top prize. The winner to be announced in the months ahead.

## SEVEN WONDERS

A look at the 2022 CEBA Built by the Best Award contenders.

**By Keith Loria** 

Mission Produce Ripening, Processing, Packaging and Distribution Facility A M King



(Photo courtesy of AM King.)

A M King was chosen by Mission Produce Inc. to design and build its first-ever hybrid facility in Laredo, Texas, to process a record number of avocados and incorporate additional product lines with different temperature requirements.

This unique hybrid ripening, processing, packaging and distribution facility will serve as the company's flagship building for its North American operations importing avocados from Mexico. The facility also needed to effortlessly switch from processing avocados to a variety of other fruits, and have the ability to expand in the future.

The completed 274,000-square-foot facility sits on 33 acres and while it is one of the most innovative of its type in North America, there were plenty of challenges the A M King teams faced along the way. For one, the original site chosen was declared unusable, so a new one had to be found and vetted quickly in order to remain on schedule. Add to that pandemic-related shutdowns, the need for COVID-19 safety protocols, time differences between the East and West Coasts, permitting impacts, travel restrictions, language barriers, and limited skilled labor in the Laredo market, and A M King had its work cut out.

Still, thanks to a focused management process, the design and construction teams overcame each of these challenges with aplomb. They delivered North America's largest avocado-focused facility in accordance with the original project budget and 45 days ahead of schedule.

### Confederation Freezers Facility Alteration and Expansion Coldbox



(Photo courtesy of Coldbox)

Confederation Freezers saw demand for its business increase substantially. As a result, it needed additional space within its existing site to accommodate growing customer needs. The company hired Coldbox to expand and alter the facility by 109,000 square feet to make it more practical.

One challenge was Confederation Freezers needed to maintain full operation and service during construction. As a solution, Coldbox took a progressive design-build approach to ensure that construction could happen while Confederation Freezers' workers were not interrupted.

This involved demolishing the old facility around the engine room and maintaining that space until the new engine room would become operational.

Thanks to the innovative design, Confederation Freezers now has a semi-automated high-density racking system with pallet runner making it the most profit-efficient addition possible.

With the finished facility, Coldbox was able to increase Confederation Freezers' storage capacity by 50%, which helped the company meet demand.

### Ben E. Keith Foods Distribution Facility ESI Group



(Photo courtesy of ESI Group.)

Ben E. Keith Foods was seeking to expand with a new food distribution facility that could house future expansion capacity totaling 1 million square feet. ESI Group was hired for the job. Situated on 116 acres, the location was ideal as it was close to Highway 84. It had been outfitted with a new water supply tank provided by Coffee County for fire protection and domestic water was supplied by the City of Enterprise. However, when constructing temperaturecontrolled environments, mother nature often plays a big role, and the job had some complexities that ESI Group needed to deal with. For instance, nature tries to equalize differences between high and low vapor pressures in freezers, so when building a cold storage room, the company needed to condense a large amount of vapor from the air with evaporators and dispense it down the hub drains.

The project experienced 118 weather-related delays, faced the challenge of limited local workforce availability and needed to be completed during the pandemic.

Still, ESI Group was able to wrap up the project on-schedule.

For the new facility, the cold side of the distribution warehouse is comprised of 28 refrigerated dock doors and approximately 61,000 square feet of humidity-controlled cold dock space for the efficient shipping and receiving of food products. Refrigerated areas range from +55 degrees in the dry produce rooms down to -20 degrees in the freezer.



### ARE YOU USING AN ENERGY EXCELLENCE CERTIFIED WAREHOUSE AS YOUR COLD CHAIN PARTNER?

Over 150 member facilities of the Global Cold Chain Alliance (GCCA) have made a commitment to:

- ✓ MAINTAINING A CULTURE OF ENERGY EXCELLENCE
- ✓ IMPROVING ENERGY EFFICIENCY
- ✓ ACCURATELY TRACKING ENERGY CONSUMPTION
- ✓ EXPLORING TECHNOLOGIES FOR CONTINUOUS IMPROVEMENT

### **Energy Excellence Certified Companies Include:**











Sign up and learn more at www.gcca.org/energyexcellence

#### Arctic Cold Lemon Processing and Storage Facility Fisher Construction Group



(Photo courtesy of Fisher Construction Group.)

Arctic Cold was looking for a design-build team that could create a facility that would meet the needs of fruit processors. It would also need to provide storage Artic Cold's tenant, citrus grower Ventura Pacific. Fisher Construction Group was brought in for the job. The \$90 million project required a 575,000-square-foot building on a 32-acre site. The facility would need the capability to process up to 50,000 crates of lemons, package fruit, and then store various products in either the variable temperature coolers or freezer for distribution.

Ventura Pacific was operating an outdated processing facility and storing product in several locations so it required a more efficient processing space and onsite cold storage that could house 100% of its product. This would allow the company to eliminate truck trips and complex inventory management, and deliver more local citrus to market.

The schedule was challenging because the tenant needed space to start installing equipment by July 2021. By utilizing a transparent collaborative approach, the project was finished on time and under budget.

The completed Arctic Cold facility is a steelframe construction with IMP walls offering energy efficiencies as well as benefits for food safety. The new freezer storage allows multiple local produce growers and processors to store their product in one central location as opposed to multiple smaller freezers in separate locations. This allows them to have better inventory control of their product and react to customer needs more efficiently. It also significantly reduces trucking needs.

### Americold Logistics Brownfield Automated Freezer Facility Griffco Design/Build



(Photo courtesy of Griffco Design/Build.)

Griffco Design/Build was hired to complete Phase 1 of Americold Logistics' Gateway project. It involved the demolition of a 440,000-squarefoot existing cold storage building and the construction of a new, 200,000-square foot automated building.

The parameters for the new facility included a 150-foot, -10-degree ASRS, -10 degree lowbay freezer; 35-degree truck and rail dock; and a two-story office building. The ASRS included 41,000 pallet positions, while the low-bay freezer included 6,000.

The Griffco team found that the soil conditions of the site were not capable of supporting the weight of the 150-foot freezer and was forced to make significant ground improvements, including a combination of geo piers and rigid inclusions. From there, an ASRS mat slab was installed that included a 12-inch stone load transfer platform, six-inch concrete mudslab, and six inches of 100 psi extruded floor insulation.

Because the majority of the work was executed during the pandemic, the Griffco team collaborated with Americold to implement strong COVID-19 safety protocols on site. The pandemic also created supply chain challenges due as racking materials were delayed in the port and erectors from Bosnia were halted by travel restrictions.

Despite these challenges – and others – the Griffco team delivered the Americold Gateway project on time and within budget.

# **Cold Storage Commercial Real Estate**

### BROKERAGE | ADVISORY | FINANCING | RESEARCH

Williams Industrial Group believes in a better approach to commercial real estate. Through hyper-focused research and advisory in specific product types we provide our clients the most exceptional, specialized, and professional service.

### 2022 US INDUSTRIAL MARKET REPORTS

The latest outlook for the industrial sector in your specific market region. Reports available in the following markets:

- Atlanta
- Austin
- Baltimore
- Boston
- Charlotte
- Chicago
- Cincinnati
- Cleveland
- Columbus
- Dallas-Fort Worth
- Denver
- Detroit
- Edmonton
- Fort Lauderdale
- Houston
- Indianapolis
- Jacksonville
- Las Vegas
- Los Angeles
- Memphis

- Montreal
- Louisville
- Miami-Dade
- Milwaukee
- Minneapolis-St. Paul
- Nashville
- New York City
- Northern New Jersey
- Oakland
- Orange County
- Orlando
- Ottawa
- Philadelphia
- Phoenix
- Portland
- Raleigh
- Riverside-San Bernardino
- Sacramento
- Salt Lake City
- San Antonio

- San Diego
- San Francisco
- San Jose
- St. Louis
- Seattle-Tacoma
- Tampa-St. Petersburg
- Toronto
- Vancouver
- Washington, D.C.
- West Palm Beach

Request your complimentary report: luis.ortega@marcusmillichap.com (858) 373-3214

### WILLIAMS INDUSTRIAL GROUP

Marcus & Millichap

Kent R. Williams, SIOR Senior Managing Director Investments Direct: 858.373.3193 kent.williams@marcusmillichap.com License: CA 00823860



Luis Ortega Cold Storage Specialist Direct: 858.373.3214 luis.ortega@marcusmillichap.com License: CA 02071282



Mark Antinucci Beverage Manufacturing/ **Distribution Specialist** Direct: 858.373.3241 mark.antinucci@marcusmillichap.com License: CA 02186109



Vince Krantz Airport-Served Specialist Direct: 858.373.3180 vincent.krantz@marcusmillichap.com License: CA 01976199



**Pablo Ortega** Rail-Served Specialist Direct: 858.373.3168 pablo.ortega@marcusmillichap.com License: CA 02100280



### Shawn Arnett

Fiber Lit Specialist Direct: 858.373.3207 shawn.arnett@marcusmillichap.com License: CA 02080620



### **Tino Acuna**

Incubator Space Specialist Direct: 858.373.3139 tino.acuna@marcusmillichap.com License: CA 02101557



#### **Matt Taylor Crane-Served Specialist** Direct: 858.373.3179 matt.taylor@marcusmillichap.com License: CA 02105908



#### **Fred Copley** Heavy Power Specialist Direct: 858.373.3234 fred.copley@marcusmillichap.com License: CA 02141490



858.373.3100 | www.marcusmillichap.com | NYSE: MMI Marcus & Millichap is a service mark of Marcus & Millichap Real Estate Investment Services, Inc., © 2022 Marcus & Millichap. All Rights Reserved.

Cold Summit Development Greenfield Cold Storage Facility Primus Builders Inc.



(Photo courtesy of Primus Builders, Inc.)

In December 2020, Cold Summit Development came up with the idea to launch Cold Summit Dallas, the first multitenant, speculative cold storage project in the United States.

The goals were clear – to deliver an exceptional, forward-thinking, flexible and energy efficient cold storage facility to the market. Primus Builders Inc. quickly became the clear choice as the design-build partner to make the project a reality.

Plans were in motion for the 344,000-squarefoot greenfield cold storage facility, which needed convertible freezers (-20F to 55F), truck docks, office space and maintenance areas. As the facility needed to be a multitenant complex with four individual tenant areas, a lot of planning was required to ensure each section had enough to make it attractive to tenants.

Primus faced several challenges during the design and construction of the project. Not the least of which was the site spanned two municipalities – the City of Lancaster and the City of Dallas – and that created issues with permits and Authorities Having Jurisdiction requirements.

Weather also played a factor as Texas experienced the biggest ice storm in its history during the building process, which forced Primus to shut the project down for two weeks. The deep freeze also made it difficult to receive building materials.

Still, thanks to the diligence and communication, the project was completed on time and within budget.

### FOOD SAFETY IS ALWAYS IMPORTANT ... BUT EVEN MORE SO IN A PANDEMIC.



### FIND OUT HOW THE COLD CARRIER CERTIFICATION PROGRAM CAN:

### **IMPROVE YOUR OPERATIONS**

Guides your review & improvement of company practices for the sanitary and safe shipment of perishables.

### DEMONSTRATE YOUR COMMITMENT

Shows your customers that you're doing your utmost to ensure the safety and sanitation of perishable shipments, protecting their brand.

#### **DIFFERENTIATE FROM YOUR COMPETITORS**

The Certification shows your status as a leader and your commitment to improving the cold chain.

### gcca.org/certifiedcoldcarrier

Kroger Ocado Fulfillment Center Ryan Companies U.S. Inc.



(Photo courtesy Ryan Companies US, Inc.)

Ryan Companies U.S. Inc. was chosen by The Kroger Co. to evaluate its distribution network, and the design-build firm offered schematic designs and estimates for several projects.

That led to Kroger hiring Ryan Companies to

build a new fulfillment center – Kroger Ocado. The FC 04 facility included spaces for distribution, including four levels of mezzanines, office and maintenance and three temperature zones in the warehouse. Approximately 50% of the warehouse space is refrigerated to 34 degree F plus there is a -10-degree F freezer space, and temperaturecontrolled space at grocery store ambient temperature.

The 419,317-square-foot Kroger Ocado Fulfillment Center is one of the first of its kind in the United States. It offers seamless, efficient and comprehensive fulfillment with direct-toconsumer grocery service using a heavily automated facility featuring hundreds of advanced robots managed by air-traffic control systems.

That created some challenges, as the design team needed to work meticulously to create a design that met the requirements of the robotics placed in the warehouse.

And even when four months of record rainfall threatened the project at inception, the Ryan Companies was able to deliver the project on time and on budget, thanks to a successful plan of stabilizing the soil with cement dust and keeping open communication with subcontractors.



### WFLO INSTITUTE – TRANSFERRING EXPERT KNOWLEDGE

Developed by industry experts to advance expertise and best practices in temperature-controlled logistics, the Institute is back in-person!

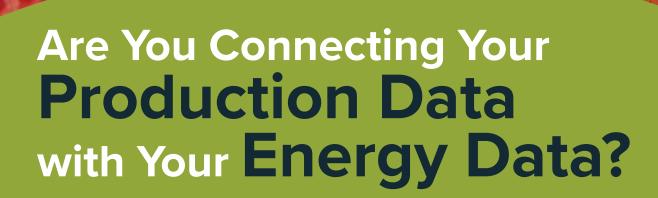
his year marks the 59th anniversary of the very first WFLO Institute held in Norman, Oklahoma – the home of The University of Oklahoma. This three-year, industry-specific program for professionals engaged in temperature-controlled logistics offers more than 40 classes taught by leading experts in the industry. The curriculum takes students through cold chain management, customer service, employee safety, food safety, warehouse operations, transportation operations and professional development.

Professional Development Opportunities

By 2009, the WFLO Institute had outgrown Norman and moved to a new home at the Georgia Tech Hotel & Conference Center in Atlanta, Georgia. This new facility allowed for more students to participate in the Institute and offered a connection to Georgia Tech's renowned Logistics and Supply Chain program. In recent years, WFLO has provided opportunities for Georgia Tech students to participate in the Institute as way to generate broader interest in a career in the Cold Chain.

In 2014, due to interest from members in the region, WFLO launched the first Latin America Institute, which was held in Costa Rica. The WFLO Latin America Institute now takes place each year in Mexico City. And while the 2020 Year 1 and Year 2 program had to be postponed to 2021, WFLO was able to run the Year 3 program virtually and graduate 12 individuals from the program.

Over the years the growth of the program continued. By 2017, the Institute had grown so much that the WFLO Board decided to hold two Institutes in the United States to allow for a valuable onsite experience while accommodating more participation. This was the beginning of the East and West Institutes. The WFLO Institute East is continuing on at Georgia Tech. The West Coast Institute is now held at the Tempe Mission Palms Hotel and Conference Center adjacent to the campus of Arizona State University, where the top ranked W. P. Carey School of Business in located. The East and West Institutes now host well over 500 students in total each year.



Our Energy Intensity platform quickly identifies inefficiencies and waste—enabling you to optimize production, boost margins, and use less energy.

Contact Kevin Overton: 832-264-7200 Visit: ndustrial.io/production-first



In 2019, the first ever WFLO Institute was held in Melbourne, Australia, with over 35 students participating in Year 1 courses. WFLO planned to hold Year 1 and Year 2 of the Institute in Melbourne in 2020, however the program had to be canceled due to COVID-19. The Institute anticipates offering Year 1 and 2 courses in Melbourne in May 2023.

The WFLO Institute classroom experience continues to grow with these four global locations and more planned for the future. It is the world's best cold chain logistics training program to develop your company's most important asset – talent.

#### WFLO Institute East and West Keynote Presentation

"#NoMatterWhat," the keynote presentation for the East and West WFLO Institutes this year, will be conducted by Sterling Hawkins, CEO and Founder of the Sterling Hawkins Group, Founder of the #NoMatterWhat movement, and author of the best seller "Hunting Discomfort."

The Sterling Hawkins Group is a research, training and development company focused on human and organizational growth. Hawkins has been featured in publications like Inc., Fast Company, The New York Times and Forbes. Based in Colorado, Sterling is a proud uncle of three and a passionate adventurer that can often be found skydiving, climbing mountains, shark diving or even trekking the Sahara. Maybe you'll even join him for the next adventure – and discover the breakthrough results you're looking for. He'll have your back #NoMatterWhat.

Sterling Hawkins is out to break the status quo. He believes that we can all unlock incredible potential within ourselves, and he's on a mission to support people, businesses, and communities to realize that potential, regardless of the circumstances.

#### Year 1 Courses

Ammonia Safety Business Communications Conflict Resolution Customer Service Essentials Emergency Response Planning Emotional Intelligence Food Safety: HACCP, FSMA, STF Forklift Safety Fundamentals of Food Storage & Preservation Leadership Development Risk Management: Warehouse Exposures Supply Chain Basics Transportation & Warehousing Warehouse Operation Essentials Job Safety Analysis Accessing Your Resources Finance 101

#### Year 2 Courses

Customer Recall Simulation Budget and Financial Controls International Business & the Cold Chain Introduction to Warehouse Law Managing Human Performance Technology & Information Systems Refrigeration & Energy FSMA & Sanitation Auditing Behavioral Interviewing Effective Presentations Employee Training for Safety Feedback & Coaching GFSI-Food Safety

Having invested in and grown more than 50 companies, Sterling takes that experience to work with C-level teams from some of the largest organizations on the planet and speaks on stages around the world. **②** 



#### Year 3 Courses

Analyzing Refrigeration Systems Best Practices for Food Tempering, Chilling & Freezing Business Development Business Planning & Financial Decision Making Case Studies in Warehouse Law Change Management Crisis Management Employment Practices & Liabilities Preparing for OSHA Inspections Regulations and Your Job Navigating Port Disruptions Trends and Technologies in Warehouse Management Transportation & Warehouse Security

### Transportation Track – West Only Year 1

Carrier Relationships Fransportation Basics I Fransportation Basics II Fransportation Safety Risk Management: Transportatio Exposures

#### Year 2

Sanitary Transportation of Food Cold Carrier Certification – Practical Application Dataflow And Freight Documentation

#### WFLO Institute West Tempe, Arizona, United States January 8-10, 2023

**WFLO Institute East** Atlanta, Georgia United States January 29-31, 2023

**WFLO Institute Australia** Melbourne, Australia May 2023

WFLO Institute Latin America Mexico City, Mexico July 2023







# 

- Production/Processing Freezers and Coolers
- GMP Pharma, Cold Rooms/Low Temp
- Large Storage Systems for End Users and Distribution
- Design-Build
- **CO**<sup>2</sup>
- Halocarbon
- Ammonia





### A Mechanical and Electrical Company

WWW.DEEMFIRST.COM | 317.860.2990 | 866.288.2990







### COLD CHAIN DEVELOPMENT NEWS ABOUT WELO INTERNATIONAL PROJECTS

This column features news about key projects of the World Food Logistics Organization (WFLO), a GCCA Core Partner, and its work with members, aid organizations and international development partners to help emerging economies and lower-income countries meet the challenges that arise when growing a safe and efficient global cold chain.

#### ACTIVE PROJECTS

#### Bangladesh Trade Facilitation (BTF) Project, 2020–2025

Partnered with Venture37 and LixCap In September 2022, GCCA's Adam Thocher and Madison Jaco met with a number of Bangladesh associations, private companies and government ministries to understand interest in association membership and identify optimal partners for implementing cold chain trainings and capacity development in the country. In Year 3 of the project, WFLO has planned several industry strengthening and training exercises for public and private cold chain entities to improve existing cold storage facilities and systems, update policy and standard operating procedures, and build capacity.

### Cambodia Market Systems Program, 2022–2023

#### Partnered with LixCap and Khmer Cold Chain Company (KCCC)

WFLO is advising on the construction and startup of the Khmer Cold Chain Company facility at the LM17 port on the Mekong River in Phnom Penh, Cambodia. Team Leader and International Cold Storage Design Build Expert Richard Dowdell and IARW Chairman Manuel Cabrera-Kabana are reviewing facility specifications and offering guidance on best practices. The team is also recommending a variety of GCCA training to support the new facility's technical operations.

### Dominican Republic TraSa Project, 2021–2025

#### Partnered with International Executive Service Corps (IESC)

In September 2022, WFLO offered a fourmodule virtual course on food storage, food safety, HACCP and sanitary transport to logistics cluster, maritime, air and land transport companies in the Dominican Republic. Each session was attended by more than 100 participants in the sector. In November, a study tour took place in Veracruz, Mexico, where attendees met with cold storage warehouse operations and port authorities to discuss best



Top: GCCA's Adam Thocher and Madison Jaco (center) pictured with Nabeel Khan of Venture 37 (right) met with members of the Bangladesh Fruit, Vegetable, and Allied Product Exporters Association during a recent trip.

Right: After their trip to Bangladesh, Thocher and Jaco met with the GCCA India office representatives as well as members in New Delhi and Agra, India.

practices in maintaining the cold chain from port to consumer. The study tour was greatly supported by GCCA members in the area.

### Egypt Cold Chain Feasibility Study, 2022

Partnered with LixCap and local consultancies In September and October, teams of WFLO technical experts, LixCap staff, and project sponsors traveled to Egypt to meet with stakeholders to identify opportunities and challenges to developing the local cold chain. The teams also visited potential sites to identify prime locations for establishing the hub and spoke facilities for the project.

### Egypt Rural Agribusiness Strengthening (ERAS) Project, 2019–2024

Partnered with Abt Associates Inc. WFLO Scientific Advisory Council Member Dr. Elhadi Yahia, whose expertise is tropical climate fruit and produce, returned to Egypt in September to provide specialized training on mango postharvest handling to farmers in the country's delta region. Based on his success with mango and pomegranate farmers,



Lado Kirvalidze of the USAID APG project in Georgia on a site visit to a cold store at the wholesale market. There has been significant investment in cold stores to improve the cold chain in Georgia. Traditionally, fruits and vegetables at the wholesale market are not handled in a proper cold chain, so to have cold store at the market is a step in the right direction.

Dr. Elhadi has been asked to return for additional work in 2023.

#### Georgia Agriculture Project, 2018–2023

Partnered with Cultivating New Frontiers in Agriculture

WFLO continues to plan the regional Cold Chain Seminar that will take place in Tbilisi at the end of November 2022. Participants are traveling from Baku, Azerbaijan, to attend. The United States Agency for International Development would like to replicate this event in Baku in 2023.

#### Ghana Cold Chain Network, 2022–2023

Partnered with LixCap, Sory @ Law, West African Coastal and Marine Engineering Services (WACAMS), and Maverick Research and Consultant

The project has identified locations for development, recommendations for design-build with respect to country context and environmental impact, and financing opportunities. The team continues to meet with potential investors and U.S.-based cold chain equipment suppliers to actualize the proposed facility. In October, members of the project attended the IARW-WFLO Convention in San Diego, California, to engage with GCCA members.

#### North African Cold Chain Skills Gap Analysis and Trainings, 2021–2022 Partnered with USA Poultry and Egg Export

Council (USAPEEC)

A number of GCCA members have donated their time to review sections of existing



GCCA/WFLO guides and manuals for applicability to the North African market and poultry products. These materials will be translated into French and Arabic and distributed to stakeholders in the market. Additional training and consultations are anticipated to take place in February 2023. **②**  In Egypt, members of the WFLO team as well as representatives from the International Finance Corporation (IFC) and GCCA member company Mirasco met with various public and private organizations to better understand the opportunities for cold chain development in the country.



### HIGH-BAY WAREHOUSE FOR DEEP FREEZE INTRALOGISTICS AT ITS BEST

In Burley, Idaho, NewCold celebrated the grand opening of one of the largest frozen storage facilities of its kind. This impressive project includes a high bay warehouse with 90,000 pallet positions supplied by SSI SCHAEFER.

The demand for deep-freeze products continues to grow. As volumes increase, requirements placed upon deep-freeze logistics are getting more complex. SSI SCHAEFER offers flexible, modular, and scalable solutions that optimize storage, picking processes, and profitability within cold storage facilities.

Think Tomorrow.

ssi-schaefer.com



### COLD CHAIN FEDERATION CORNER

In April 2022, the GCCA and the United Kingdom's Cold Chain Federation announced a partnership agreement signalling a renewed commitment to building knowledge, networking opportunities and insights across borders.

Here, Cold Chain Federation Chief Executive Shane Brennan continues his new series for COLD FACTS exploring hot topics for our industry in the United Kingdom and beyond.



#### Cold Chain Live 2022

Cold Chain Federation Chief Executive Shane Brennan reflects on a successful and productive conference at a time of change in UK national leadership.

In September we welcomed 300 cold chain colleagues and partners to the definitive event for the U.K. cold chain. This was the first ever Cold Chain Live held in person and the conference, exhibition and dinner were resounding successes. We are proud that the event not only delivered new perspectives from expert speakers but also created the crucial industry-led forum that the U.K. cold chain needs for discussing common issues, sharing knowledge, exchanging ideas and establishing new relationships.

On a personal note, it was good to be together with colleagues and friends when the news broke about the death of Her Majesty Queen Elizabeth II as the conference came to a close.

We were delighted to welcome a delegation from the Global Cold Chain Alliance to our Cold Chain Live conference to meet with U.K. operators and provide their insights into the global viewpoint. The formal partnership established earlier this year between the Cold Chain Federation and GCCA opens a world of opportunities for businesses to collaborate. We look forward to continuing to develop this relationship.

There were some great insights on customer perspectives delivered from the Cold Chain Live main stage. Exploring how and why U.K. grocery shopping behavior is changing, Chief Executive Officer of the Institute of Grocery Distribution (IGD) Susan Barrett shared key points from the IGD's latest Shopper Research Data.



The data showed that while consumer confidence had been high as we came out of the pandemic, on shelf availability of products over the last 12 months has been at approximately 65%. Prior to the pandemic it would have sat consistently at over 90%.

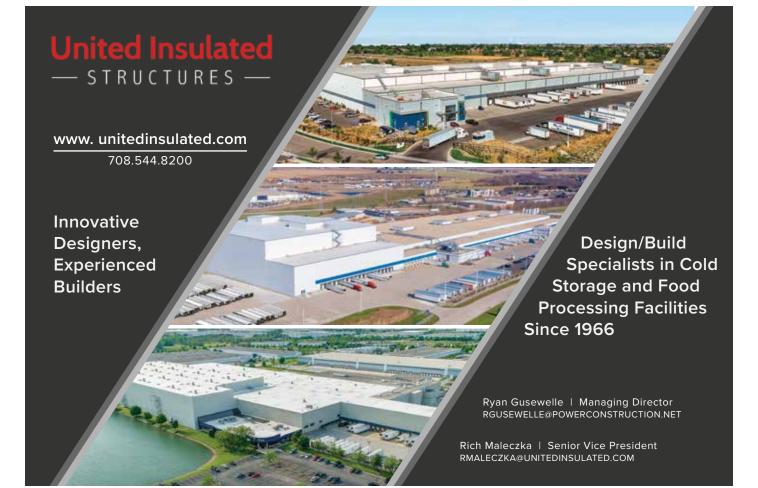
We learned that in light of our national cost of living crisis, 90% of U.K. grocery shoppers are changing their behavior. Barrett posed an important question for our industry over whether the current low-stock, just-in-time approach still works, or whether holding more stock, closer to shoppers, could increase durability and improve service. Her view was that although this would mean financial implications, everyone loses if products are out of stock.

Cold Chain Live 2022 was an important gathering for the U.K. cold chain. It was a major milestone in our Cold Chain Federation's evolution into a future-facing, productive and proactive asset for our industry. I'm already looking forward to building on this year's event at Cold Chain Live! 2023 in Liverpool. The discussions at Cold Chain Live 2022 were all set in the context of Liz Truss replacing Boris Johnson as our prime minister. We do not expect any major shifts in direction on the critical issue of Net Zero. However, the new prime minister and her Cabinet have already made a number of significant interventions aiming to cushion the immediate impacts of soaring energy prices alongside bold policy changes in pursuit of national economic growth.

The Cold Chain Federation will continue to represent U.K. cold storage and temperature-controlled distribution operators in discussions with government. And, as existing policies are altered and new ones are introduced, we will continue to highlight to our members the new opportunities – and any potential pitfalls – as they arise. **2** 



A panel discussion at Cold Chain Live 22. (Photo courtesy of Cold Chain Federation.)



## COOL SOLUTIONS SCIENTIFIC ANSWERS TO COLD CHAIN CHALLENGES

This section highlights a cold chain question and answer submitted through the GCCA Inquiry Service to the team of experts on the WFLO Scientific Advisory Council (SAC), the roster of SAC members and abstracts on cool solutions written by SAC members. Submit your cold chain questions to the Scientific Advisory Council at www.gcca.org/inquiry. To get instant advice from a private, online community of over 4,000 cold chain professionals, simply post your inquiry in the GCCA Online Community. All GCCA Members and their employees can access the GCCA Online Community at

I want to explore the option of marketing blast freezing services to the dried herbs and spices industry as a treatment method to eliminate the risk of insect eggs hatching. The most common method used to control pest infestation in South Africa is irradiation treatment. Irradiation not only reduces the microbial load but also eliminates the pests. Although irradiation of spices is widely accepted globally and is proven not to cause harm to the consumer, there are certain markets where restrictions exist, largely driven by consumer fear. Is blast freezing something I could and should consider?

A: In general, freezing and holding at a low enough temperature for a long enough time will kill insects, their larvae and their eggs. Dry herbs and spices are very different than dealing with fresh herbs and spices. For dry products, including dry herbs and spices, the most used technique is irradiation at high doses, which is very effective and comes at a relatively cheap application cost. This treatment is accepted by most countries, has no negative effects on human health nor significant effects on product composition.

However, it is true that some customers do not prefer this treatment. I am sure that freezing would be very effective in controlling insects, although not as effective and not as cheap of an application cost as irradiation. It could be effective as an alternative for irradiations for customers that reject irradiation.

In the GCCA Commodity Storage Manual, there is a short section on Insect Control: Insect Infestation & Destruction Temperatures, which may be of further interest. Answer provided by Dr. Subramaniam Sathivel, Louisiana State University, Frozen Food Quality Expert; Dr. Elhadi Yahia, Universidad Autónoma de Querétaro, Mexico, Postharvest Technology, Tropical Fruit & Produce Expert; and Dr. Michael Jahncke, Virginia Seafood Agricultural Research & Extension Center, Chairman of the Scientific Advisory Council.

Submit your burning cold chain questions to the Scientific Advisory Council at www.gcca.org/inquiry or at inquiry@gcca.org @



## COOL SOLUTIONS: ABSTRACT SCIENTIFIC ANSWERS TO COLD CHAIN CHALLENGES



DR. JEFFREY BRECHT University of Florida, Cool-Climate Fruit & Produce Expert

Mango fruit demand and consumption are increasing in U.S. markets due to desirable flavor and health benefits. To satisfy high-end distant markets, mango producers, suppliers, and retailers work together to maintain yearround supply.

However, when the fruit are harvested green (unripe) and transported below the chilling threshold temperature in an attempt to ship longer distances, such as from South America to the United States, the result can be poor flavor in the marketplace. In the worst-case scenario, perception of subpar mango quality can remain fresh in a consumer's memory, which hinders future mango purchases.

To overcome this, Dr. Jeffrey Brecht, Dr. Faisal Shahzad and Mr. Moshe Doron targeted shipping tree-ripe mangos in modified atmosphere packaging (MAP) with ethylene scrubbers to supplement MAP effects in inhibiting over ripening of fruit during extended transport. MAP is a dynamic packaging system that relies on the natural interplay between the respiration of the fruit and the permeability of the packaging film to create a reduced oxygen/ elevated carbon dioxide environment that slows ripening and quality deterioration. Ethylene, produced by many fruits, coordinates the ripening process. Removing (scrubbing) ethylene from the package atmosphere further slows ripening.

At their lab at the University of Florida, the team determined the optimum oxygen and carbon dioxide concentrations for storage of the major export mango varieties. Then the team worked with BreatheWay<sup>TM</sup> MAP and It's Fresh! ethylene control filters to optimize packaging in four-week storage experiments. These experiments simulated the longest ocean voyages for South American mangos destined for U.S. markets. Having successfully completed the laboratory experiments, the team is organizing test shipments in concert with scientists at the Brazilian Agricultural Research Corporation (Embrapa), Brazilian mango exporters, and U.S. importers. The team is using carton and pallet scale MAP systems to demonstrate the feasibility of this technology for improving the quality of mangos shipped very long distances to satisfy the expectations of U.S. consumers. **@** 



MI inspections, maintenance prioritization and PSM/RMP programs.

www.inspectpipe.com (847) 844-8765

- No radiation risk
- No pipe too small



Gamma Graphics Services, A LIX Company. Trusted by end users, contractors and consultants.



The WFLO Scientific Advisory Council is an eminent group of food scientists, logistics, and packaging experts from around the world. The council provides cutting-edge research and advice to members of the Global Cold Chain Alliance and its Core Partners.



Dr. Michael Jahncke Virginia Tech University, Fish Products Expert SAC CHAIRMAN



**Dr. Brian Fugate** University of Arkansas, Supply Chain Management Expert



**Dr. Jeffrey Brecht** University of Florida, Cool-Climate Fruit & Produce Expert



**Dr. Cody Gifford** University of Wyoming, Meat Products Expert



**Dr. Patrick Brecht** PEB Commodities, Refrigerated Transportation Expert



**Dr. Dennis Heldman** The Ohio State University, Food Process Engineering Expert



**Dr. Paul Dawson** Clemson University, Poultry Products Expert



**Dr. Faris Karim** Kansas State University, Ammonia Contamination & Food Toxicology Expert



Dr. Donald Fenton Kansas State University,

Refrigeration Engineering Expert



**Dr. Barbara Rasco, BSE, Ph.D., JD** University of Wyoming, Food Safety & Food Safety

Regulations Expert



Dr. S. Paul Singh

Michigan State University, Packaging & Labeling Expert



Dr. Kees Jan Roodbergen

University of Groningen, Logistics & Operations Management Expert



#### Dr. Donald Schaffner

Rutgers, The State University of New Jersey, Microbiology Expert



**Dr. Victoria Salin** Texas A&M University, Agriculture Economics Expert



**Dr. Charles White** • Mississippi State University, Dairy Products Expert



**Dr. Subramaniam Sathivel** Louisiana State University, Frozen Food Quality Expert



#### Dr. Elhadi Yahia

Universidad Autónoma de Querétaro, Mexico, Postharvest Technology of Perishable Foods Expert

#### **SAC Emeritus**

R. L. (Bob) Henrickson, Oklahoma State University, Meat Products Expert
Joseph Sebranek, Iowa State University, Meat Products Expert
Daryl B. Lund, University of Wisconsin, Food Science Expert
Joseph Slavin, Jos. Slavin & Associates, Fish Products Expert
W. F. (Will) Stoecker, University of Illinois, Refrigeration Engineering Expert

Have a burning cold chain question? Submit an inquiry to the Scientific Advisory Council at www.gcca.org/inquiry

## NEW MEMBERS NEW MEMBER COMPANIES OF GCCA CORE PARTNERS



#### **CEBA MEMBERS**

ACR Project Consultants Pvt Ltd. Pune, India

Applied Process Cooling Corporation (APCCO) Modesto, California, United States

**Classic Refrigeration SoCal** Fullerton, California, United States

**Clayco** Chicago, Illinois, United States

**Cubic33 Colombia S.A.S.** Bogota, Colombia

Elliott's Jacksonville, Florida, United States

esaSolar Maitland, Florida, United States

Willmeng Phoenix, Arizona, United States



#### IARW-WFLO WAREHOUSE MEMBERS

Afrigotel - Armazenagem Frigorífica Maputo, Mozambique

**Chill Storage** Dallas, Texas, United States

**LR Logistics Solutions Ltda.** Camboriu, Brazil

**RealCold** St. Johns, Florida, United States

Trinity Frozen Foods Pembroke, North Carolina, United States



#### **IARW ASSOCIATE MEMBERS**

Acorn Thermal Services, LLC Canton, Georgia, United States

Alphacon Calgary, Albert, Canada

Artyc San Mateo, California, United States

Bastian Solutions Carmel, Indiana, United States

**Bradco Supply Company** Kansas City, Missouri, United States **CBRE Consultoria do Brasil Ltda.** São Paulo, Brazil

**Griffin Insulated Structures** North Palm Beach, Florida, United States

**JLL** Atlanta, Georgia, United States

Johns Manville Denver, Colorado, United States

**PGIM Real Estate** Madison, New Jersey, United States

**Phase Change Solutions** Asheboro, North Carolina, United States



#### **WFLO MEMBERS**

**Care and Share Food Bank** Colorado Springs, Colorado, United States

Feeding America Chicago, Illinois, United States

Food Bank for Larimer County Loveland, Colorado, United States

Food Bank of Central New York Syracuse, New York, United States

**Food Bank of Eastern Oklahoma** Tulsa, Oklahoma, United States

**Food Bank of Northeast Louisiana** Monroe, Louisiana, United States

**Gleaners Food Bank of Indiana** Indianapolis, Indiana, United States

## NEW MEMBER COMPANIES OF GCCA CORE PARTNERS

**Global FoodBanking Network** Chicago, Illinois, United States

**Greater Pittsburgh Community Food Bank** Duquesne, Pennsylvania, United States

Houston Food Bank Houston, Texas, United States

La Soupe Cincinnati, Ohio, United States

Mid-Ohio Food Collective Grove City, Ohio, United States

North Texas Food Bank Plano, Texas, United States Nourish LA Los Angeles, California, United States

**Oregon Food Bank, Inc.** Portland, Oregon, United States

Scannell Properties Kansas City, Missouri, United States

**Scout Cold Logistics** Miami, Florida, United States

**Second Harvest Canada** Etobicoke, Ontario, Canada

Second Harvest Community Food Bank Saint Joseph, Missouri, United States Second Harvest Inland Northwest Spokane, Washington, United States

**Treasure Coast Food Bank** Fort Pierce, Florida, United States



IRTA MEMBERS Lalaskom Express LLC Bethesda, Maryland, United States





#### INDUSTRY PROMOTION RESEARCH **INTERNATIONAL** ADVOCACY



## GCCA STANDS WITH YOU. THE TIME TO ACT IS NOW.

Never before has our industry faced such uncertainty and vulnerability from America's policy makers, both in the White House and in both chambers of Congress. The current Administration and Congress present new challenges and opportunities that we will need to face as an industry, together.

The Biden Administration and Democratic controlled Congress could implement burdensome regulations and increase oversight over our industry in a number of ways. This includes:



## **OSHA COVID-19 STANDARDS**

- Enacting a national emergency temporary standard for industry
- Sets the stage for permanent regulation on infectious disease control in the workplace

#### CLIMATE CHANGE

- Pursuing aggressive policies to address climate change, through both executive action and legislation
- Rejoining the Paris Climate Agreement, eliminating greenhouse gas emissions, and implementing the Green New Deal

## TAXES

- Rolling back the Trump tax cuts
- Increasing the corporate tax rate from 21% to 28%, phasing out deductions for pass-through entities
- Raising the top marginal income-tax rate from 37% to 39.6%
- Less money in the pockets of businesses means less jobs available for hardworking employees

A Democrat controlled White House and Congress will only mean more rules, regulations and burdensome policies.

## THERE IS SOMETHING YOU CAN DO.

To learn more about how you can contribute contact Lowell Randel (Irandel@gcca.org) or visit advocacy.gcca.org. Visit ADVOCACY.GCCA.ORG for more information.



+1 703 373 4300 EMAIL@GCCA.ORG GCCA.ORG

241 18TH STREET SOUTH. **SUITE 620 ARLINGTON, VIRGINIA, 22202** 

 /GLOBALCOLDCHAINALLIANCE /GLOBAL-COLD-CHAIN-ALLIANCE-GCCA



## LABOR

- Strengthening worker organizing, collective bargaining and unions through executive action and legislation such as the PRO Act
- Labor initiatives, like 'micro-unit' organizations and joint employer policies could quickly be reinstated

## DITIONAL REGULATIONS

- Revisiting EPA's Risk Management Program (RMP) regulation and making additional requirements
- **Changes to Process Safety Management**

## ASSOCIATION NEWS NEWS ABOUT GCCA CORE PARTNERS

GCCA is proud to announce the recipient of the 2022 Don Schlimme Future Leader Award is Kulsoom Khan, Energy Efficiency Manager, Congebec Inc. The award was presented by Manuel Cabrera Kabana, IARW Chairman and Adam Thocher, GCCA, Senior Vice President, Global Programs & Insights, Executive Director, World Food Logistics Organization at the 131st Annual IARW-WFLO Convention in San Diego, California, where over 500 temperature-controlled logistics executive leaders gathered for the number one event for warehousing, logistics, transportation and design-build/construction industry to come together.

Kulsoom competed against finalists Clifton Alt, Operations Manager, InterChange Group; Judina Arends, Operations Manager, Bradner Cold Storage; India Grayson, Warehouse Lead, Agile Cold Storage; and Brian Magnus, General Manager, Midwest Logistics, United States Cold Storage.

As part of the selection process, each finalist was interviewed by a panel of judges made up of industry leaders. The 2022 judges were Paul Henningsen, Lineage Logistics; Angie Schmidt, Mattingly Cold Storage; Michael Fischer, RLS Logistics; and Bryan Hedge, RLS Complete. Each candidate also delivered an on-stage presentation to the panel of judges and convention attendees.

WFLO'S Executive Director Adam Thocher and Vice President of International Projects Amanda Brondy attended the Champions 12.3 Meeting on Reducing Food Loss and Waste: A Vital Solution to the Food Crisis held in conjunction with the United Nation's Food Systems Summit on September 23, 2022. Champions 12.3 is a coalition of executives from governments, businesses, international organizations, research institutions, farmer groups and civil society dedicated to inspiring ambition, mobilizing action, and accelerating progress toward achieving Sustainable Development Goal Target 12.3 by 2030, which aims to halve global per capita food waste. Champions 12.3 announced it will host a new assembly to convene national governments and businesses to dramatically expand global action toward halving food loss and waste by 2030.

At this meeting, GCCA announced a strategic partnership with both the Global Foodbanking Network and Feeding America to provide better, more structured support to reduce food loss and waste and improve food security. As a starting point, GCCA is offering a free membership accessible to food banks and food banking networks and all other entities working to redistribute and maximize food. This membership will establish a platform for these groups to seek assistance when it comes to perishable products. This could include access to refrigerated storage space, energy efficiency/reduction consultations, mentorship or refrigerated transportation access.

The 42nd **CEBA** Conference and Expo, held November 7-10, 2022, at the Omni Amelia Island, saw record attendance with more than 350 controlled environment facility construction, logistics and supply chain operations professionals in attendance. The expo was also the largest to date with 45-plus companies showcasing cutting-edge products, services and technology. Participants heard from keynoter Dr. Anirban Basu of the Sage Policy Group about economic trends and potential impact on the industry. There were also four presentations from the CEBA Built by the Best Award finalists. Ideas were shared in both the Construction Café sessions and the Peer to Peer discussions. In addition, two breakouts covered Sustainability and Regulations as well as the CEBA Value Proposition - How to Engage and Drive Value from Membership. Attendees also had many networking opportunities to continue to build existing relations and as well as new ones. The dates and location for the 2023 event will be announced soon. 🖉



Winchester Cold Storage, Winchester, Virginia

If you want to be green and reduce your plant's carbon footprint, use natural refrigerants, evaporative condensers, and minimize the number of compressors and condenser fans in your system. *The facts are:* for every 5-pound reduction in head pressure using evaporative condensers, you save 2% in compressor power. *That can be a 30% reduction in power!* 



Call Hank Bonar today! 904-631-8966 hank@bonarengineering.com

Bonar Engineering, Inc. PO Box 60009, Jacksonville, FL 32236



#### 2023 GCCA Education, Training & Networking Events

Make 2023 the year to get back together to expand your knowledge and grow your organization to improve the cold chain industry.

JANUARY	59 <sup>TH</sup> WFLO INSTITUTE WEST	
- 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	8-10 JANUARY 2023	WELO
	Tempe, Arizona, United States   Tempe Mission Palms Hotel at Arizona State University	INSTITUTE
	This event, designed for employees with clear management potential and executives new to the indus- try, features more than 40 classes in warehouse management and transportation management taught by leading experts in the industry.	WEST
	Large Company Audience: Warehouse managers, operations managers, warehouse supervisors, shift leads, workers with high potential for management, customer service managers, business development	
	managers, transportation managers, executives new to the industry. Small to Medium Company Audience: Warehouse managers, operations managers, workers with high	
0	potential for management.	
•	59 <sup>TH</sup> WFLO INSTITUTE EAST	
- 0 0 0 0 0 0	29–31 JANUARY 2023	WELO
	Atlanta, Georgia, United States   Georgia Tech Hotel & Conference Center	INSTITUTE
	This event, designed for employees with clear management potential and executives new to the indus- try, features more than 40 classes in warehouse management and transportation management taught by leading experts in the industry.	EAST
• • •	Large Company Audience: Warehouse managers, operations managers, warehouse supervisors, shift leads, workers with high potential for management, customer service managers, business development managers, transportation managers, executives new to the industry.	
0 0 0	Small to Medium Company Audience: Warehouse managers, operations managers, workers with high potential for management.	
MARCH	26 <sup>TH</sup> GCCA EUROPEAN COLD CHAIN CONFERENCE & EXPO	26TH EUROPEAN
•	20–22 MARCH 2023 Barcelona, Spain   InterContinental Barcelona	COLD CHAIN CONFERENCE 20-22 MARCH 2023 BARCELONA, SPAIN
0 0 0	Here, delegates gain a better understanding of market trends, industry challenges, business solutions, and technological innovations. The conference also provides ample networking opportunities, enabling attendees to meet and connect with professionals from throughout Europe and around the world.	
0	Audience: Executives and managers from temperature-controlled, third-party logistics companies.	
MAY	WFLO INSTITUTE AUSTRALIA	
	TBD MAY 2023 Melbourne, Australia	WFLO
	This event, designed for employees with clear management potential and executives new to the indus- try, features more than 40 classes in warehouse management and transportation management taught by leading experts in the industry.	AUSTRALIA
	<b>Large Company Audience:</b> Warehouse managers, operations managers, warehouse supervisors, shift leads, workers with high potential for management, customer service managers, business development managers, transportation managers, executives new to the industry.	
	Small to Medium Company Audience: Warehouse managers, operations managers, workers with high potential for management.	
JUNE	GCCA COLD CHAIN POLICY FORUM	
	19-21 JUNE 2023 Washington, DC   The Watergate Hotel	<b>BCCA COLD CHAIN POLICY FOR</b> WASHINGTON, DC JUNE 19–21, 2023
0 0 0 0 0 0	The GCCA Global Policy Forum is the premier policy event for businesses engaged in temperature-con- trolled logistics. Featuring education sessions and keynote presentations focused on rules and regula- tions that impact the cold chain, the Global Policy Forum is a must attend policy event for multiple regions across the world.	
0	Large Company Audience: Executives with compliance and regulatory responsibility, members of safety and government affairs committees.	

Small to Medium Company Audience: Owners, CEOs, executives with compliance and regulatory responsibility, members of safety and government affairs committees.





\*

0

#### WFLO INSTITUTE LATIN AMERICA

#### 17-19 JULY 2023

JULY

#### Mexico City, Mexico | Hilton Mexico City Reforma

This event, designed for employees with clear management potential and executives new to the industry, features extensive classes in warehouse management and transportation management taught by leading experts in the industry.

Large Company Audience: Warehouse managers, operations managers, warehouse supervisors, shift leads, workers with high potential for management, customer service managers, business development managers, transportation managers, executives new to the industry.

**Small to Medium Company Audience:** Warehouse managers, operations managers, workers with high potential for management.

#### AUGUST GCCA SOUTH AFRICAN COLD CHAIN CONFERENCE

#### 2-4 AUGUST 2023

#### Cape Town, South Africa

This event is South Africa's one and only venue bringing together cold store operators, controlledenvironment builders, equipment suppliers and service providers to discuss opportunities and innovations of this essential sector. The conference provides leadership experience, knowledge, and exclusive networking with decision makers from across South Africa and beyond, in a relaxed yet professional atmosphere.

Audience: Executives and managers from temperature-controlled, third-party logistics companies.

#### SEPTEMBER 132ND GCCA CONVENTION

#### 24–27 SEPTEMBER 2023

Scottsdale, AZ | The Westin Kierland Resort & Spa

This annual gathering for IARW and WFLO features education, networking and business development opportunities for third-party logistics companies and warehouse operators.

Large Company Audience: Owners, CEOs, presidents, executive leadership teams.

Small to Medium Company Audience: Owners, presidents, senior executives.

#### OCTOBER GCCA BRAZILIAN COLD CHAIN CONGRESS

TBD OCTOBER 2023 Sao Paulo, Brazil

This educational event focuses exclusively on the temperature-controlled logistics industry and features opportunities and solutions for business development.

Audience: High-level executives in temperature-controlled warehousing or logistics.

#### NOVEMBER 43<sup>RD</sup> CEBA CONFERENCE & EXPO

#### TBD NOVEMBER 2023

Location to Be Announced Soon

This annual meeting of CEBA members offers education, business development opportunities and networking for company executives managing the building of new cold storage facilities and cold storage builders.

**Large Company Audience:** Chief engineers, regional facility managers, regional facility maintenance leads, construction engineer managers.

Small to Medium Company Audience: Owners/CEOs who are building or expanding facilities, chief engineers.

#### GCCA LATIN AMERICAN COLD CHAIN CONGRESS

#### **TBD NOVEMBER 2023**

#### Mexico City, Mexico

This meeting enables GCCA members and leaders in the temperature controlled industry to interact, learn about industry trends and expand their knowledge. The Congress also serves as a discussion forum for issues of interest to multi-regional cold chain industry leaders.

Audience: Senior executives in temperature-controlled warehousing or logistics.













## MEMBER NEWS NEWS FROM MEMBERS OF GCCA CORE PARTNERS



(Photo courtesy of AWIP.)

#### ALL WEATHER INSULATED PANELS

(AWIP) debuted its new continuous line production facility in East Stroudsburg, Pennsylvania, United States, with an open house and tree-planting event. The newly renovated state-of-the-art facility is AWIP's first on the U.S. East Coast.

**EMERGENT COLD LATIN AMERICA** has acquired Bajo Cero Frigoríficos, representing the company's entry into Mexico. Emergent Cold LatAm now operates 23 cold storage facilities, with another four facilities under construction, across 10 countries.

#### EMERGENT COLD LATIN AMERICA

announced the construction of a new temperature-controlled facility located in Talcahuano, Chile.

 $\bullet \bullet \bullet$ 

**FLEXCOLD** has opened its first facility. Located in Jacksonville, Florida, United States, three miles from the state's largest container port, the facility spans more than 150,000 square feet and offers 25,000 pallet positions. It contains two convertible rooms for refrigerated or frozen products; a freezer room below zero; and a blast freeze room. USDA and FDA inspections are provided on-site as well.

#### $\bullet \bullet \bullet$

**KINGSPAN** Insulated Panels North America announces two new Building Information Modeling (BIM) tools to streamline the design process for architects, engineers, contractors and project teams. BIM Bundle and BIM Configure allow access to entire product lines, giving designers the data they need to model building design and performance.

(Photo courtesy of FlexCold.)

LINEAGE LOGISTICS launches Lineage Fresh to expand its fresh produce offering in the United States. The new service builds on the company's acquisitions of Sun Valley Cold Storage and Kloosterboer Group and the construction of a new refrigerated storage facility in Savannah, Georgia, set to open in early 2023. The new value-added services and specialized capabilities of Lineage Fresh include repack and bagging services, reconditioning, restacking, restyling, container plugs, multitemperature zones for produce, cold treatment, fumigation, container drayage and the integration of customs bonded facilities.

#### $\bullet \bullet \bullet$

LINEAGE LOGISTICS appointed Lynn Wentworth to its Board of Directors. Additionally, Lineage also appointed Natalie Matsler as Chief Legal Officer and Corporate Secretary. In this role, she will oversee Lineage's global legal, safety and compliance, food optimization and corporate compliance functions.



## **MEMBER NEWS** NEWS FROM MEMBERS OF GCCA CORE PARTNERS

## **AD INDEX**

Berner Air Curtains		
Bonar Engineering & Construction Company		
BRUCHA Corp		
DEEM, LLC		
Evapco, Inc 20, 21		
GAF <b>17</b>		
Gamma Graphics Services 39		
Green Span Profiles		
Jamison Door Company Cover 3		
Kalman Floor Company Cover 4		
M&M Carnot 50		
Mac Rak Inc9		
Marcus & Millichap		
ndustrial.io		
Polyguard Products Cover 2		
Primus Builders, Inc		
Schaefer Systems International		
Stow US Inc 15		
The Kaiser-Martin Group 49		
Tippmann Engineering 43		
Tippmann Group 29		
TrueCore Panels 3		
United Insulated Structures Corp. (UISC, LLC)		
Vapor Armour 5		

**PLM FLEET**, a fleet management company exclusive to the cold supply chain, celebrated its 50<sup>th</sup> anniversary. The company is dedicated to the leasing, renting, and ColdLink® telematics of over 13,000 refrigerated trailers, and has 32 locations nationwide.

#### $\bullet \bullet \bullet$

The **RAYMOND CORPORATION** introduces the Raymond<sup>®</sup> High Capacity Orderpicker. The new orderpicker features an elevated height of 456 inches, which allows for increased rack storage access to 11% more pick slots. The increased elevated height enables operators to optimize storage capacity for more usable space and improved SKU count without increasing a facility's overall footprint. **2** 



(Photo courtesy of PLM Fleet.)





## **Our 50 Years of designing and producing industrial** refrigeration products, systems and controls are now available in packaged systems



Pure Low Charge Ammonia Packaged Chillers • 40 to 400 Tons at 5 to 50F Outlet fluid





Pure Low Charge Ammonia Condensing Units • 30 to 100 Tons at -20F to 45F SST



Packaged Cascade Ammonia/CO, Systems • 40 to 200 Tons at -20 to -60F pumped CO



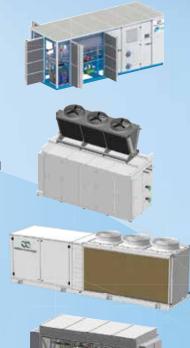
Aquilon CHILL • 50 to 500 tons at -40F to 40F outlet fluid



Aquilon Transcritical CO<sub>2</sub> Condensing Units • 10 to 85 Tons at -40 to +40F SST



**Transcritical CO, Industrial Racks** Aquilon • 50 to 400 Tons at +40 to -50F SST or +50F to -40F fluid temperature



**Pioneer and leader of Natural Refrigerant Based Refrigeration Systems** that are safe, sustainable, and energy-efficient in all climates.



888 Bestgate Road Suite 212 • Annapolis, MD 21401 • 410-754-8005 • mmrefrigeration.com • carnotrefrigeration.com

## JAMISON DOOR\*

## much more than another door.

From an idea in 1906 to a global brand today, Jamison's unwavering standards for quality, workmanship and service have made ours the most sought-after door in the industry.

## It's not just the door. It's what's behind it.

When you buy Jamison, you buy more than a door. You buy the expertise and experience of a company with demonstrated leadership in the design and manufacture of doors for all types of environments.

From Jamison sliding cold storage doors and HCR air doors, to BMP high-speed fabric rollups and Jamotuf architectural style doors, we have a complete line of doors for a one-stop shopping for the cold-storage industry.





**Technical Expertise** 



**Outstanding Service** 



**Superior Engineering** 



The Best Warranty



800-532-3667

🔇 www.jamisondoor.com

- 🖾 contact@jamisondoor.com
  - 55 JV Jamison Drive Hagerstown, MD 21740

/jamisondoorco

in /jamisondoorco

# FLOOR FACTS

## FOR OPERATIONS

Easy cleaning, light reflecting, reduced axle and transmission repairs, better pick rates, and faster driving

FOR HUMAN RESOURCES

Lowered operator fatigue, increased morale, safer driving and higher retention rate

## FOR THE BOARD OF DIRECTORS

Longer lasting, lowered equipment cost, higher throughput, lowest total cost of ownership

## Reduce unnecessary distractions, increase profits, and strengthen your reputation as a world-class distributor.





INDUSTRIAL FLOOR CONTRACTOR



#### BES Ε S Т L Ν Е N

KALMAN FLOORS HAVE UP TO 90% FEWER JOINTS

Easy-to-clean Non-dusting

Self-polishing

Abrasion-resistant Longest warranty in the industry

1680 E. 69TH AVENUE DENVER, COLORADO 80229 (303) 674-2290 KalmanFloor.com | info@kalmanfloor.com

**KALMAN HOME OFFICE** 





#### BUILDING VALUE FOR YOU I WORLDWIDE SERVICE

Т