



business case

natural refrigerants

25 & 26 June 2015 – Atlanta, Georgia

Welcome & Introduction

Marc Chasserot, Chairman ATMOsphere
Managing Director, shecco



Hillphoenix[®]

A  **DOVER**[™] COMPANY





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Accelerator of natural refrigerant based technologies







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natural refrigerants

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June 2016





 **ATMO**
sphere
business case
natural refrigerants
19 May 2016 — Melbourne



 **ATMO**
sphere
network
natural refrigerants
5 April 2016, Beijing, China


 Event details


 News


 Sponsors

 Presentations

 Pictures

 Report

 Programme

 Register now

26 events

421 speakers

515 presentations

available on **ATMO.org**

Alexander Cohr Pachal: High-efficiency NH3 and

Igor C. Croiset: General Overview of the Foam

Torben M. Hansen: Market Overview: Commercial / retail refrigeration

Rene van Gerwen: Five golden rules for

421 speakers

Masood Ali: State of the Industry

Jan Boone: Market Overview

515 presentations

Christian Schmäzle: 100 kW R744 Compressor for commercial


Nina Masson: Natural Refrigerants in the EU


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Javier Camargo: Criteria by the

Carlos Arruda: CO2 Commercial

Tingxun Li: Barriers and Ways to Develop R290


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Marc Cha
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Janos Maté: Technologies: Working

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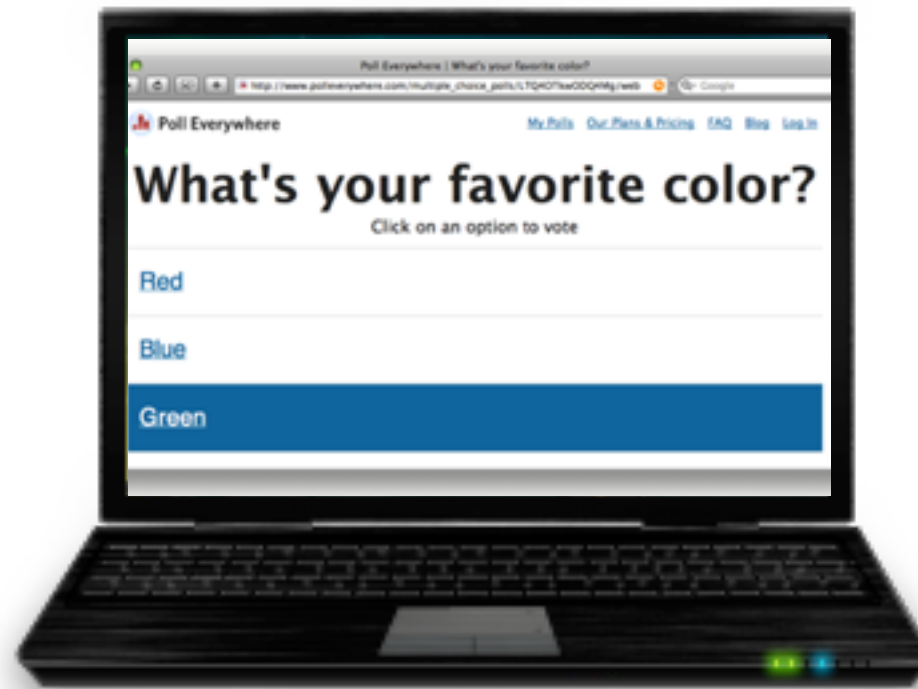
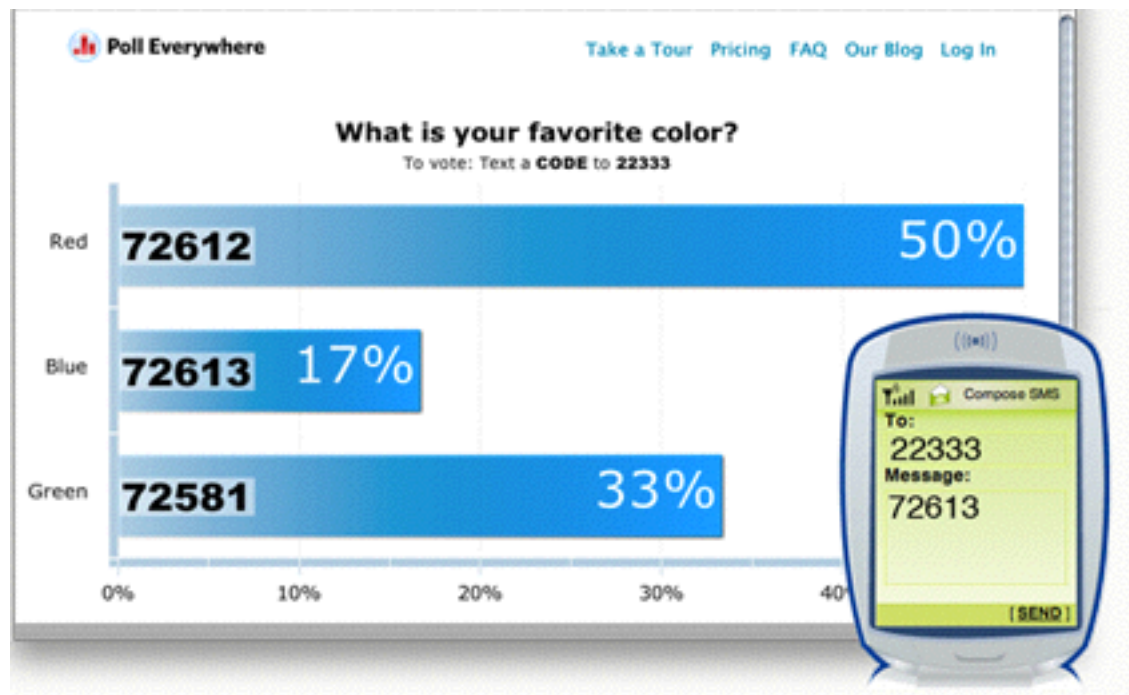
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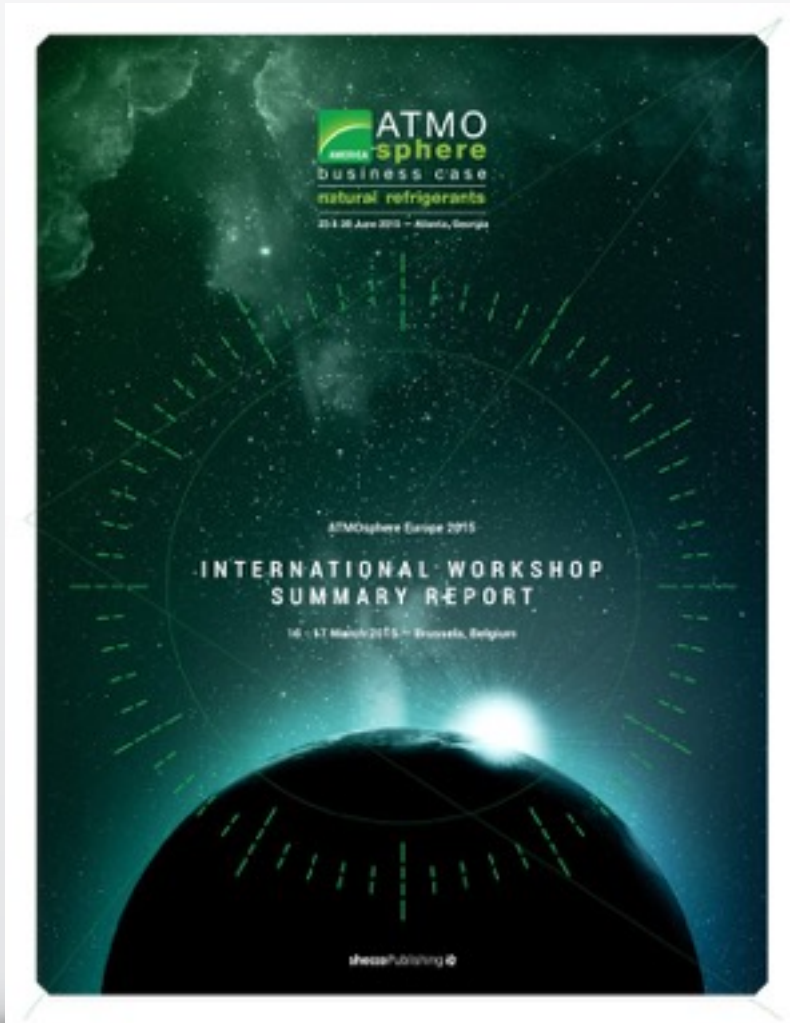
**Polaroid pictures
& *Business cards***



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**Dinner Networking Reception
at the Georgia Aquarium**

Today - 19:20



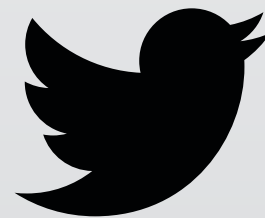
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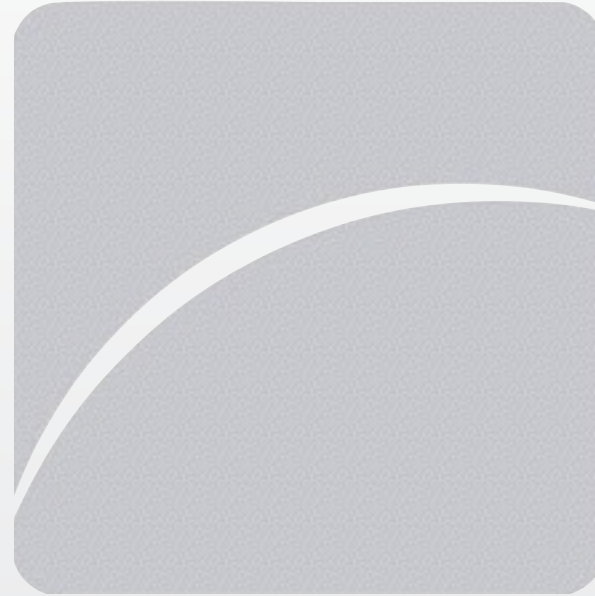


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ATMO2015






Programme

Thursday 25 June 2015

08:00	Registration & Welcome coffee - Sponsored by  
WELCOME AND INTRODUCTION	
09:00	Marc Chasserot, shecco
MARKET OPPORTUNITIES SESSION 	
09:10	<p>End users discuss their future plans involving natural refrigerants, including their technology needs and the opportunities for natural refrigerant technologies across various applications in North America</p> <p>Moderator: Marc Chasserot, shecco</p> <p>Co-Moderator: Nina Masson, shecco</p> <p>End users from the following companies and sectors:</p> <p>Harrison Horning, Delhaize (food retail)</p> <p>Roy Buchert, McDonald's (food service brand)</p> <p>John Scherer, LA Cold Storage (cold storage)</p> <p>Bruce Karas, The Coca-Cola Company (FMCG)</p> <p>Ronald Domitrovic, Electric Power Research Institute (EPRI) (energy utility)</p>
10:30	Coffee and Networking break - Sponsored by   

STATE OF THE INDUSTRY SESSION											
11:00	<p> Sponsored by Bitzer</p> <p>Leading North American vendors will give 5-7 minute strategic and visionary presentations sharing their latest success stories, lessons learned, challenges and next steps with regards to natural refrigerant based technologies</p> <p>Introduction by Joe Sanchez, BITZER</p> <p>Moderator: Nina Masson, shecco</p> <p>Scott Martin, Hillphoenix, Advances in natural refrigerant refrigeration</p> <p>Quentin Crowe, Hussmann, Building confidence in natural refrigerants</p> <p>Marc-André Lesmerises, Carnot Refrigeration, CO₂ is good, not only for supermarkets!</p> <p>Dustan Atkinson, Heatcraft Worldwide Refrigeration, An industry in transition</p> <p>Mark Tomooka, Mayekawa, Trending: #Natural #Efficient #Safe</p> <p>Joe Sanchez, BITZER, Changing with the times</p> <p>Andre Patenaude, Emerson Climate Technologies, Responsible refrigerant planning for retail enterprises</p>										
12:30	<p> Networking Lunch - Sponsored by Hussmann</p>										
13:00	<p>Technomercials will be presented during the lunch break by the following sponsors:</p> <table border="0"> <thead> <tr> <th>Session 1</th> <th>Session 2</th> </tr> </thead> <tbody> <tr> <td>Hillphoenix presents <i>A natural in refrigeration solutions for an HFC-free world</i></td> <td>Mayekawa presents <i>Towards 100 - Advancing refrigeration through cooperation</i></td> </tr> <tr> <td>Emerson Climate Technologies presents <i>The Helix Innovation Center</i></td> <td>Carnot Refrigeration presents <i>Carnot's CO₂ refrigeration for datarooms</i></td> </tr> <tr> <td>Embraco presents <i>Highly efficient hydrocarbon solutions</i></td> <td>Danfoss presents <i>See how Danfoss is engineering tomorrow</i></td> </tr> <tr> <td>AHT Cooling Systems presents <i>Environmental aspects of food refrigeration</i></td> <td>Sanden presents <i>Sanden CO₂ products</i></td> </tr> </tbody> </table>	Session 1	Session 2	Hillphoenix presents <i>A natural in refrigeration solutions for an HFC-free world</i>	Mayekawa presents <i>Towards 100 - Advancing refrigeration through cooperation</i>	Emerson Climate Technologies presents <i>The Helix Innovation Center</i>	Carnot Refrigeration presents <i>Carnot's CO₂ refrigeration for datarooms</i>	Embraco presents <i>Highly efficient hydrocarbon solutions</i>	Danfoss presents <i>See how Danfoss is engineering tomorrow</i>	AHT Cooling Systems presents <i>Environmental aspects of food refrigeration</i>	Sanden presents <i>Sanden CO₂ products</i>
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16:00	<p>Coffee and Networking break - Sponsored by</p> <div style="display: flex; justify-content: center; gap: 20px;">   </div>			

PARALLEL BREAK-OUT SESSIONS - PART 2				
16:30	<p>Participants will be able to choose from the following parallel break-out sessions:</p> <table border="0"> <tr> <td style="vertical-align: top;"> <p>Commercial Refrigeration Case Studies - Part 1</p> <p>Leading suppliers and technology pioneers share their latest natural refrigerant based projects and product innovations, covering best practices, lessons learned, efficiency and cost analysis, as well as next steps</p> <p>Moderator: Reggie O'Donoghue, Emerson Climate Technologies</p> <p>Jeff Newel, Hillphoenix, Case study with a national retailer – comparing calculated energy consumption and actual energy results of a CO₂ booster system</p> <p>Reggie O'Donoghue, Emerson Climate Technologies, The advantages of using electronic controls in CO₂ booster systems</p> <p>Tom Wolgamot, DC Engineering and Tristam Coffin, Whole Foods Market, A case study of the CO₂ systems in Whole Foods Market Northern California region</p> <p>Klaas Visser, KAV Consulting, A desktop study into the energy efficiency and environmental benefits of CO₂ refrigeration in USA supermarkets</p> </td> <td style="vertical-align: top;"> <p>Contractors Panel NEW</p> <p>Challenges, opportunities and future trends for natural refrigerant based technologies will be discussed from the contractors point of view, including topics about awareness, training and pricing in regards to other contractors and also different stakeholders along the supply chain</p> <p>Moderator: Mark A. 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18:00	End of Day 1 - Networking & Free Time			
19:15	<p> Dinner Networking Reception at the Georgia Aquarium - Sponsored by Hillphoenix</p> <p>Dinner speech: Eduardo Navarro, Hillphoenix</p> <p>Shuttle buses will be provided to take participants to the Aquarium and back to the Grand Hyatt Atlanta in Buckhead</p>			



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Thank you very much!

Standup please!








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 Event details


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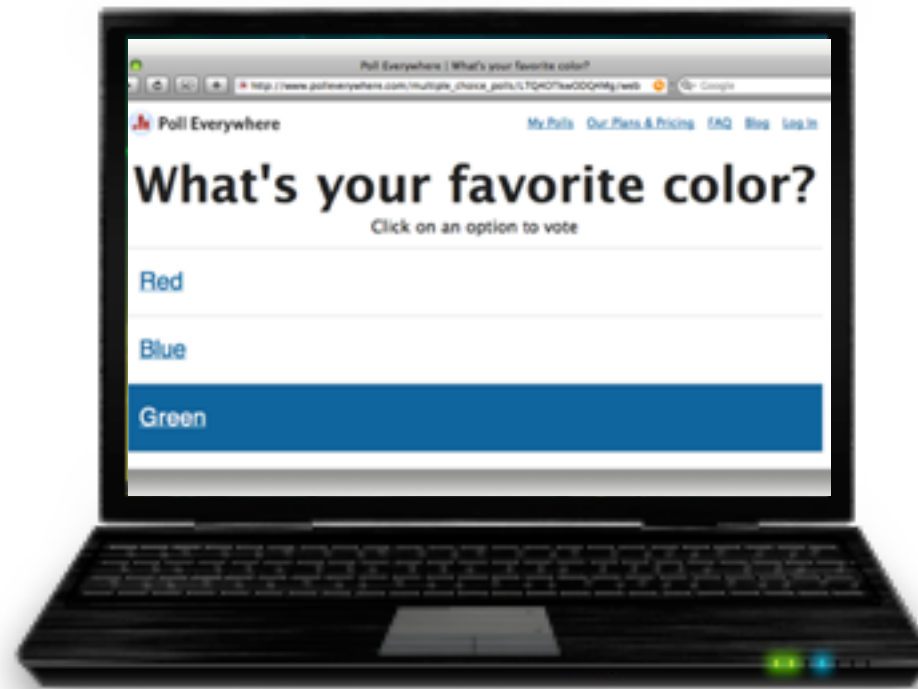
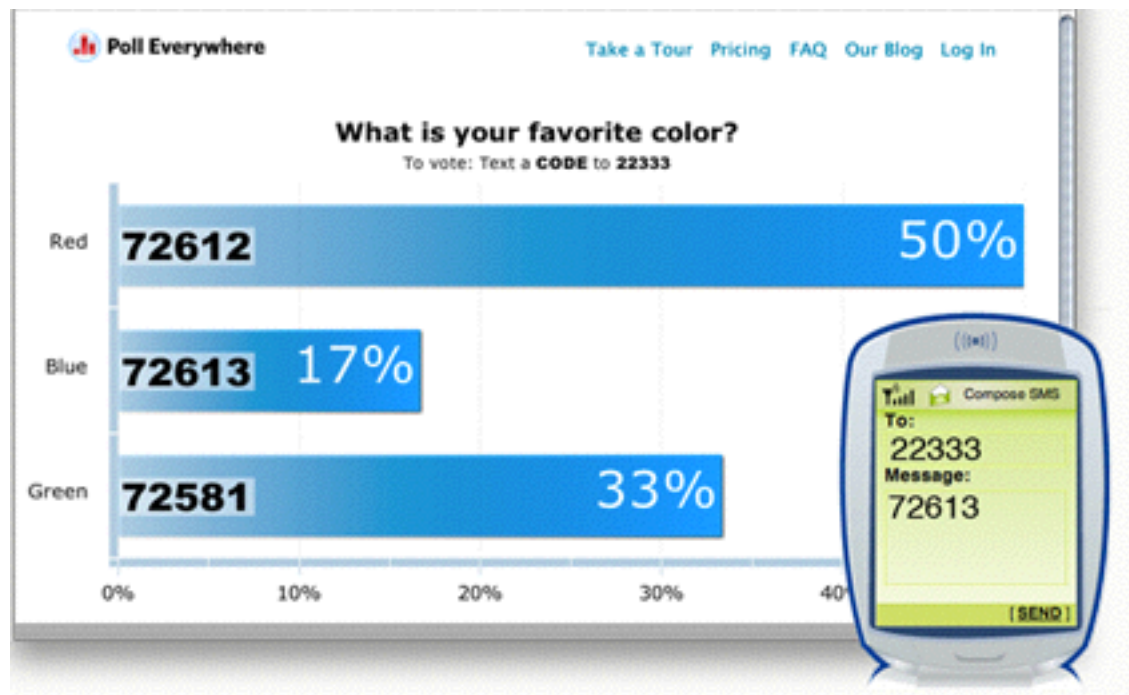
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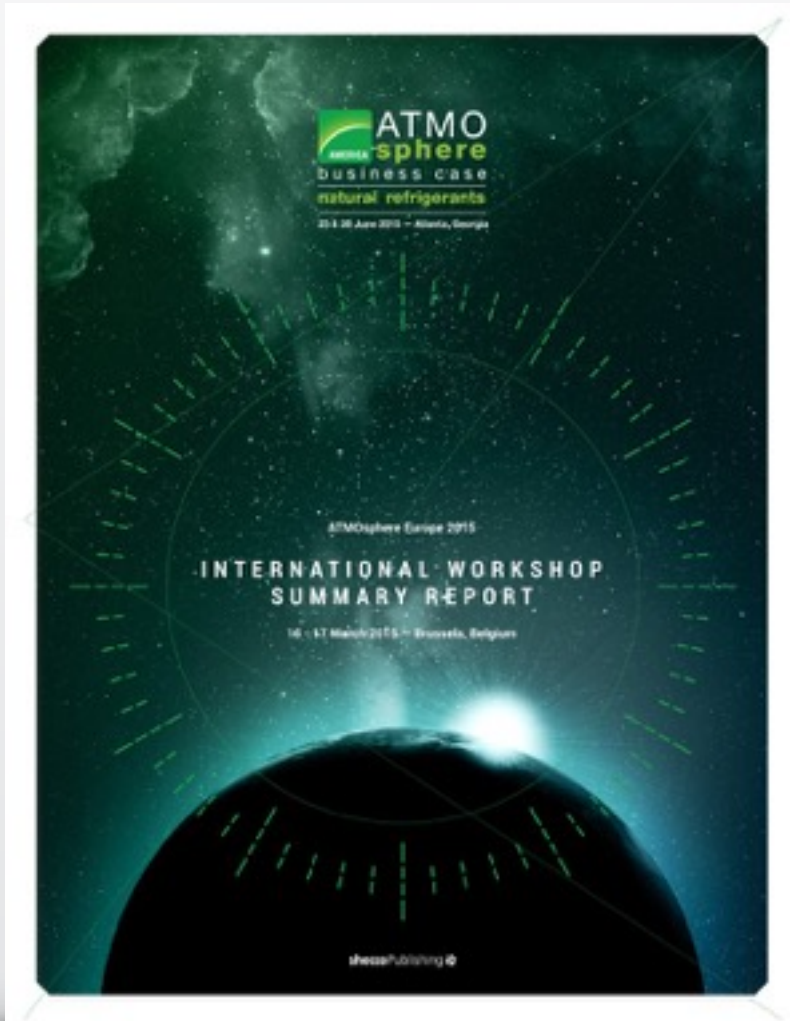
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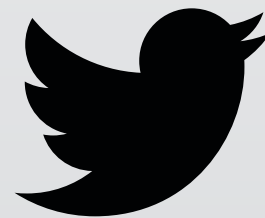
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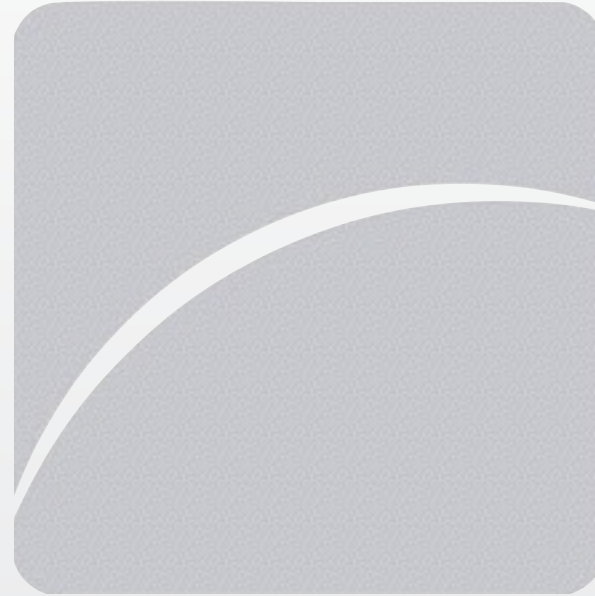
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ATMO2015



Programme

Friday 26 June 2015

08:00	Registration & Welcome coffee - Sponsored by  
ACCELERATE AMERICA AWARDS & GUIDE NORTH AMERICA 	
09:00	Michael Garry , <i>shecco</i> , Editor of Accelerate America, will debut the Accelerate America Awards that recognize individuals that are leading the transition to natural refrigerant based technologies
09:30	Nina Masson , <i>shecco</i> , Deputy Managing Director, will present an exclusive sneak peak at the GUIDE North America 2015
10:00	Coffee and Networking break - Sponsored by  

REGULATIONS & STANDARDS SESSION	
10:30	 <p>Sponsored by Heatcraft</p> <p>Presentations by government representatives and industry experts on the latest regulatory issues and standards regarding natural refrigerants in North America</p> <p>Introduction by Augusto Zimmermann, <i>Heatcraft Worldwide Refrigeration</i></p> <p>Moderator: Marc Chasserot, <i>shecco</i></p> <p>Gerald Wozniak, <i>U.S. EPA, EPA regulatory update</i></p> <p>Antonio Bouza, <i>U.S. DOE, DOE's Building Technologies Office: refrigerant R&D</i></p> <p>Glenn Gallagher, <i>California Air Resources Board, California Air Resources Board - Regulation of high-GWP refrigerants</i></p> <p>Randall Haseman, <i>Underwriters Laboratories (UL), Refrigerants and UL standards</i></p> <p>Klara Skacanova, <i>shecco, Policy trends for natural refrigerants in Europe, Japan and China</i></p>
12:00	 <p>Networking Lunch - Sponsored by Mayekawa</p>
12:30	<p>Technomercials will be presented during the lunch break by the following sponsors:</p> <p>Carel presents <i>CAREL retail systems for CO₂ convenience store</i></p> <p>Stellar presents <i>The advantage of packaged equipment</i></p> <p>Blupura presents <i>R290 and R600 natural refrigerants in drinking water coolers and fountains</i></p> <p>Wieland presents <i>Wieland K65[®] high strength cooper alloy</i></p>

PARALLEL BREAK-OUT SESSIONS - PART 1

14:00

Participants will be able to choose from the following parallel break-out sessions:

Food Service Panel



Hydrocarbons and CO₂ light commercial application examples from different perspectives including a fast food chain, beverage provider, convenience store and a leading supplier of light commercial units in North America

Moderator: Marc Chasserot, shecco

Roy Buchert, McDonald's, The McDonald's you don't know

Paige Dunn, Red Bull, Hydrocarbon coolers: efficiencies for retail spaces

Paul Camera, Starbucks, Starbucks & natural refrigerants: implementing R290 into retail stores

Charlie Hon, True Manufacturing, Hydrocarbons: the advantages and obstacles

Low Charge Ammonia Panel



Low charge ammonia solutions are revolutionizing the industry, creating new opportunities within industrial applications but also in commercial and HVAC sectors. Some of the pioneers in this field will present the latest technology updates and discuss market forecasts

Moderator: Pega Hrnjak, University of Illinois

Gerard Von Dohlen, Port Newark Refrigerated Warehouse, The business model

John Scherer, LA Cold Storage Company, NXTCOLD ultra-low ammonia charge technology

Matt Hirsch, Primus Builders (representing Lineage Logistics)

Paul Delaney, Southern California Edison, Do low charge ammonia systems save energy?

Kurt Liebendorfer, Evapco, How to safely ride the wave

Heat Pumps & Commercial Refrigeration Case Studies - Part 2

Leading suppliers and technology pioneers share their latest natural refrigerant based projects and product innovations, covering best practices, lessons learned, efficiency and cost analysis, as well as next steps

Moderator: Troy Davis, Mayekawa

Troy Davis, Mayekawa, Water source CO₂ hot water heat pumps – Lessons learned from commercial installations

John Miles, Sanden International USA, Residential CO₂ heat pump water heaters cold climate field testing

Rob Arthur, CTA Architects Engineers, US Defense Commissary Agency project, ammonia/CO₂ cascade refrigeration system, from design through completion

Paul Bevington, Carter Group, Integrated CO₂ convenience refrigeration installation

Tommaso Ferrarese, CAREL, New alternatives for natural refrigerants in US market: DC compressors waterloop system

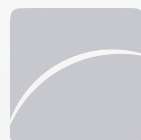
Drew Martin, Secop, How to gain maximum efficiency in plug-in cabinets by using hydrocarbon refrigerants

15:30

Coffee and Networking break - Sponsored by



PARALLEL BREAK-OUT SESSIONS - PART 2				
16:00	<p>Participants will be able to choose from the following parallel break-out sessions:</p> <table border="0"> <tr> <td style="vertical-align: top;"> <p>Light Commercial Panel </p> <p>Discussions will look at technology updates and the business case for using CO₂ in smaller light commercial units from the perspectives of one of the world's leaders in the beverage industry and its key suppliers</p> <p>Antoine Azar, The Coca-Cola Company, R744 for light commercial applications</p> <p>Bruce Karas, The Coca-Cola Company</p> <p>Mike Weisser, SandenVendo, An introduction to CO₂ refrigeration in food and beverage marketing equipment</p> <p>Marco Giulletti, ISA, Today is possible</p> <p>Joe Ichikawa, Sanden, Sanden, in partnership with nature</p> <p>Andrés Martínez-Negrete, Imbera, Success in CO₂ cooler development</p> </td> <td style="vertical-align: top;"> <p>Industrial Refrigeration Case Studies</p> <p>Following the low charge ammonia panel featuring discussions between suppliers and end users, this session will present some real-life examples of this new technology and other industrial ammonia technology break-throughs from leading suppliers</p> <p>Moderator: Derek Hamilton, Azane</p> <p>Benoit Rodier, CIMCO Refrigeration, New development in natural refrigerant equipment</p> <p>Joe Sanchez, BITZER, An "industrommercial" CO₂ system</p> <p>Terry Chapp, Danfoss and Jeremy Olberding, Colmac Coil Manufacturing, Ammonia DX low charge system proves sustainability</p> <p>Derek Hamilton, Azane, Low charge ammonia – The natural choice for frozen food distribution</p> </td> <td style="vertical-align: top;"> <p>Natural Refrigerants Label Workshop </p> <p>Interactive workshop to discuss the business case for introducing a North American label for natural refrigerant based technologies in the HVAC&R industry</p> <p>Moderator: Nina Masson, shecco</p> </td> </tr> </table>	<p>Light Commercial Panel </p> <p>Discussions will look at technology updates and the business case for using CO₂ in smaller light commercial units from the perspectives of one of the world's leaders in the beverage industry and its key suppliers</p> <p>Antoine Azar, The Coca-Cola Company, R744 for light commercial applications</p> <p>Bruce Karas, The Coca-Cola Company</p> <p>Mike Weisser, SandenVendo, An introduction to CO₂ refrigeration in food and beverage marketing equipment</p> <p>Marco Giulletti, ISA, Today is possible</p> <p>Joe Ichikawa, Sanden, Sanden, in partnership with nature</p> <p>Andrés Martínez-Negrete, Imbera, Success in CO₂ cooler development</p>	<p>Industrial Refrigeration Case Studies</p> <p>Following the low charge ammonia panel featuring discussions between suppliers and end users, this session will present some real-life examples of this new technology and other industrial ammonia technology break-throughs from leading suppliers</p> <p>Moderator: Derek Hamilton, Azane</p> <p>Benoit Rodier, CIMCO Refrigeration, New development in natural refrigerant equipment</p> <p>Joe Sanchez, BITZER, An "industrommercial" CO₂ system</p> <p>Terry Chapp, Danfoss and Jeremy Olberding, Colmac Coil Manufacturing, Ammonia DX low charge system proves sustainability</p> <p>Derek Hamilton, Azane, Low charge ammonia – The natural choice for frozen food distribution</p>	<p>Natural Refrigerants Label Workshop </p> <p>Interactive workshop to discuss the business case for introducing a North American label for natural refrigerant based technologies in the HVAC&R industry</p> <p>Moderator: Nina Masson, shecco</p>
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FINAL REMARKS				
17:30	Concluding remarks in the main plenary room			
17:45	 Farewell Drink - Sponsored by Carnot			



POST-EVENT TRAINING SESSION

09:00 Mayekawa training session (from 9am to 12pm)

The following topics will be discuss:

Natural Refrigerants (NR) Overview

Types of systems (worldwide solutions also considered)

NR Check list/ Steps towards success: process to help evaluate how natural refrigerants can work for you and your company.

For more information or to sign up for the event, please send an email to Maiko Hirayama at MHirayama@mayekawausa.com.



business case

natural refrigerants

25 & 26 June 2015 – Atlanta, Georgia

Thank you very much!

Standup please!

