



solutions for europe  
**natural refrigerants**

16-17 March 2015 in Brussels

# Welcome & Introduction

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*Marc Chasserot, Chairman ATMOSphere  
Managing Director, shecco Europe*

**EU industry** at the forefront of innovation in NR technology **TODAY**

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**Policy is an important driver**

EU F-Gas Regulation and national legislation & support

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**More NR solutions** are available for different applications, incl. warmer climates

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More end-users announce **NR are a now standard** in new equipment

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**Policies** from UN, US, Japan **accelerate the trend** on a global scale





Competition increases:  
**from companies in other regions**  
**from low-GWP HFC refrigerants**

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Natural Refrigerants still a 'niche'  
**= +/- 10% Global HVAC&R**

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“mainstreaming” of Natural Refrigerants  
will **not happen by itself**

→ **Pro-active approach  
is necessary** ←

**Raise Awareness:** NR label & Training

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**Reduce Costs:** Lower capital costs, new business models,  
incentives & subsidies

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**Increase Availability:** Components, Systems, Services, integrated  
approach, natural refrigerants for AC, high ambients

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**Innovate and invest** in R&D to fill the gaps









 **BRONZE**



# shecco Publishing







NORTH AMERICAN EDITION  
**ACCELERATE**  
ADVANCING HVAC&R NATURALLY MAGAZINE

- ★ first North American online magazine about natural refrigerant technology and beyond
- ★ end-users, suppliers, policy & more
- ★ Japanese version coming soon!

**Accelerate Japan coming soon**  
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 **ATMO**  
**sphere**  
business case  
**natural refrigerants**

25-26 June 2015 — Atlanta, Georgia

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**sphere**  
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**natural refrigerants**

February 2016 in Tokyo

 **ATMO**  
**sphere**  
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**natural refrigerants**

March 2016 in Barcelona



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n e t w o r k  

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**natural refrigerants**



7 April 2015



Q4 2015



 Event details

 News

 Sponsors

 Presentations

 Pictures

 Report

 Programme

 Register now

**22 events**

**376 speakers**

**432 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

**376 speakers**

Masood Ali: State of the industry

Jan Boone: Market Overview

**432 presentations**

Christian Schmäzle: 100 kW R744 Compressor for commercial

Nina Masson: Natural Refrigerants in the EU









available on **ATMO.org**

Javier Camargo: Criteria by the

Carlos Arruda: CO2 Commercial

Tingxun Li: Barriers and Ways to Develop R290



-  Event details
-  News
-  Sponsors
-  Presentations
-  Pictures
-  Report
-  Programme
-  Register now

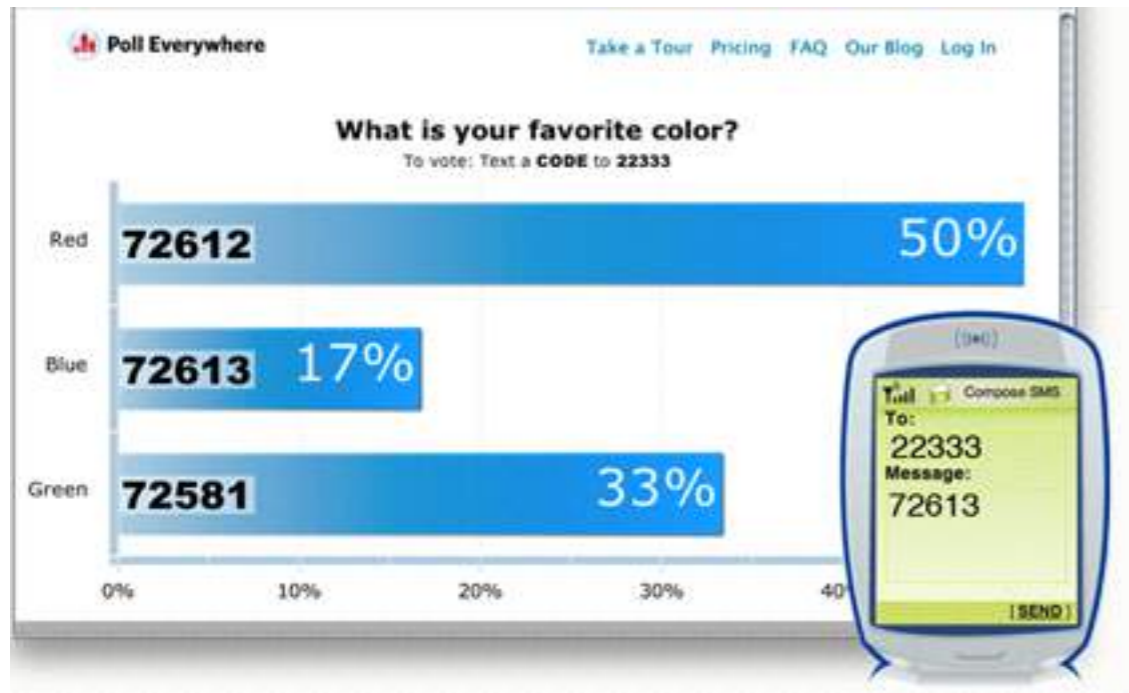
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**Polaroid pictures**  
& *Business cards*



**Reception & Networking Dinner**  
*Monday, 16 March - 19:30*



ATMOsphere team will produce a report summarising ATMOsphere Europe 2015 presentations, data and discussions to be sent to ATMOsphere Europe participants later this month.

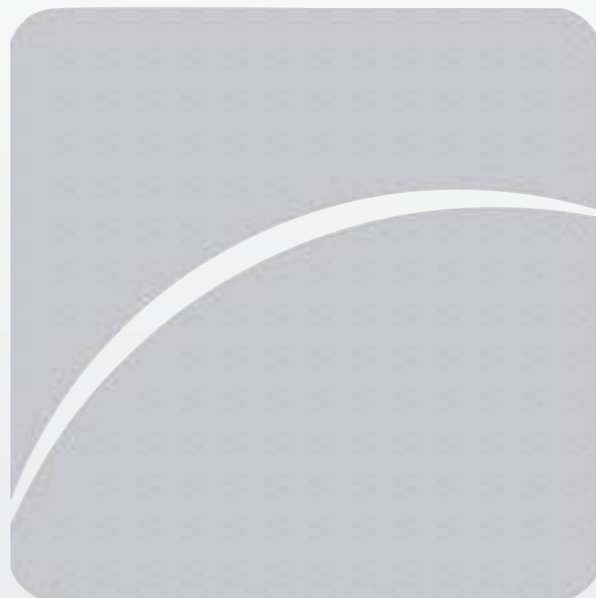


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by tagging your tweets with the hashtag

**#ATMOEurope**











# Programme

*16 March 2015*

16-17 March 2015 in Brussels

| 16 MARCH 2015   |   |
|---|---|
| 08:00   |  Registration and Welcome coffee - sponsored by Mayekawa   |
| <b>INTRODUCTION</b>   |   |
| 09:00   | <b>Marc Chasserot</b> , <i>shecco</i> , Welcome speech and introduction day 1   |
| <b>POLICY SESSION: IMPLEMENTING THE EU F-GAS REGULATION</b> |   |
| 09:15   | <p><b>Chair: Marc Chasserot</b>, <i>shecco</i></p> <p><b>Bente Tranholm-Schwarz</b>, <i>European Commission</i>, Implementing the EU F-Gas Regulation</p> <p><b>Florian Veyssilier</b>, <i>French Ministry of Ecology, Sustainable Development and Energy</i>, Implementation of the F-Gas Regulation in France</p> <p><b>Mikkel Aaman Sorensen</b>, <i>Danish Environmental Protection Agency</i>, Socio-economic effects of options for further regulation of HFCs</p> <p><b>Katja Becken</b>, <i>German Federal Environment Agency</i>, Approaches to implementing the EU Regulation No. 517/2014 in Germany</p> <p><b>Marco Buoni</b>, <i>Air conditioning Refrigeration European Association (AREA)</i>, Refrigerant emissions and leakage-blended learning for alternative refrigerants in a new equipment</p> <p><b>Juergen Goeller</b>, <i>Carrier Transicold &amp; Refrigeration Systems</i>, Implementation of the new EU F-Gas Regulation - a view from the industry</p> <p><b>Q&amp;A</b></p> |
| 11:00   | Coffee and Networking break sponsored by     |


16-17 March 2015 in Brussels

| GLOBAL POLICY SESSION |   |
|-----------------------|---|
| 11:30                 | <p><b>Chair:</b> Sidi Menad Si Ahmed, <a href="#">shecco</a></p> <p><b>Phillip Owen</b>, <a href="#">European Commission</a>, Towards a global phase-down of HFCs – an EU response</p> <p><b>Philippe Chemouny</b>, <a href="#">Environment Canada</a>, North American Proposal to phase down HFCs under the Montreal Protocol</p> <p><b>Motoyuki Kumakura</b>, <a href="#">Ministry of the Environment (Japan)</a> - video presentation</p> <p><b>Clare Perry</b>, <a href="#">Environmental Investigation Agency (EIA)</a>, Elements for a successful phase-out of HFCs under Montreal Protocol</p> <p><b>Q&amp;A</b></p> |
| 12:30                 | <p> <b>Networking Lunch</b> - sponsored by Advansor</p>  |
| 13:00                 | <p><b>Product launch:</b></p> <p> World Premiere: <b>Menno Van der Hoff</b> presents <b>TRIPLEAQUA</b> by Beijer Ref</p>   |
| 13:30                 | <p><b>Technomercial:</b></p> <p><b>Huayi Compressor Barcelona</b> presents: Propane compressors for light commercial refrigeration</p>  |

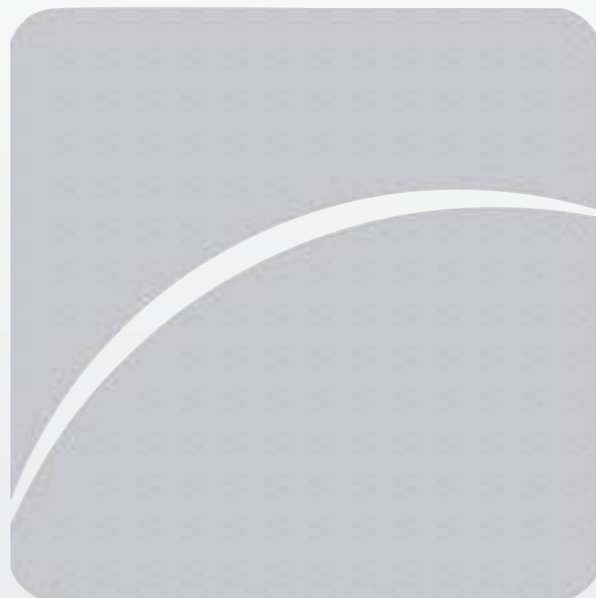


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| MARKET TRENDS SESSION |  |
|-----------------------|--|
| 14:00                 | <p><b>Chair: Nina Masson, shecco</b></p> <p><b>Stuart Webb, Carrier</b>, Segment trends - CO<sub>2</sub> systems in Europe</p> <p><b>Eric Delforge, Mayekawa</b>, Challenges &amp; drivers for industrial refrigeration and heat pumps</p> <p><b>Torben Hansen, Advansor</b>, Market trends - Advansor 2015</p> <p><b>Francesco Mastrapasqua, Epta</b>, Ensuring environmentally sustainable systems stable growth</p> <p><b>Sylvain Gillaux, SANDEN</b>, SANDEN Europe - Market Trends</p> <p><b>Nina Masson, shecco</b>, Natural refrigerant market trends in a global context</p> <p><b>Q&amp;A</b></p> |
| 15:30                 | <p>Coffee and Networking break sponsored by</p> <div style="display: flex; justify-content: space-around; align-items: center;">    </div>  |

| HEAT PUMPS, INDUSTRIAL REF. & OTHER APPLICATIONS |   |
|--|---|
| 16:00  | <p>Participants will be able to choose between different sessions including:</p> <p><b>Case Study Session 1: Heat Pumps Technology</b></p> <p><b>Moderator: José Miguel Corberán, Universitat Politècnica de València</b></p> <p><b>Jan Boone, Mayekawa, Natural Refrigerants – NH<sub>3</sub> heat pumps for hot water production</b></p> <p><b>Shigeru Yoshida, Mitsubishi Heavy Industries, CO<sub>2</sub> heat pump water heater for commercial use - case studies from Europe and Asia</b></p> <p><b>Michael Miranda, boostHEAT, boostHEAT natural gas-fuelled CO<sub>2</sub> heat pump</b></p> <p><b>Raniero Trinchieri, ENEA, Development of CO<sub>2</sub> heat pump for DHW production suitable for European climates</b></p> <p><b>Gary Shaw &amp; John Burden, Johnson Controls, Cranswick County Foods: new industry standard in energy optimisation and refrigeration</b></p> <p><b>José Miguel Corberán, Universitat Politècnica de València, A propane water-to-water heat pump booster for sanitary hot water production</b></p> <p><b>Paul De Larminat, Johnson Controls, High temperature water vapour heat pump</b></p> <p><b>Q&amp;A</b></p> <p><b>Case Study Session 2: Industrial Refrigeration &amp; Other Applications Technology</b></p> <p><b>Moderator: Garry Broadbent, Green Cooling</b></p> <p><b>Lionel Pourcheresse, Carrier Transicold, Efficient and sustainable transport refrigeration unit using CO<sub>2</sub></b></p> <p><b>Anthony Bour, Thermo King, CO<sub>2</sub> sustainable delivery operations with CryoTech temperature controlled solutions</b></p> <p><b>Kent Hofmann, Green &amp; Cool &amp; Jörgen Rogstam, Energi &amp; Kylanalys, First transcritical CO<sub>2</sub> ice rink in Europe</b></p> <p><b>Or Garry Broadbent &amp; Dave Blinkhorn, Green Cooling, HOTREC CO<sub>2</sub> refrigeration - Canary Wharf London by Green Cooling</b></p> <p><b>Paul Rivet, AF Consulting, Transcritical R744 for food industry</b></p> <p><b>Juan Carlos Rodriguez, Johnson Controls, Fribin: energy efficiency combined with increased safety thanks to CO<sub>2</sub> refrigeration</b></p> <p><b>Timothy Lorkin, MoveOnn Inside, Magnetic refrigeration - a natural refrigerant technology: integration into EU Regulations</b></p> <p><b>Q&amp;A</b></p> |
| 18:00  | End of Day 1 - Business Exchange & Free Time  |
| 19:30  | <p> Reception &amp; Networking Dinner - sponsored by Carrier</p> <p><b>Dinner Speeches: Jo Leinen, European Parliament, Jean Michel Fleury, Carrefour &amp; Adrian Forastier, Carrier Commercial Refrigeration Europe</b></p>  |





# Programme

*17 March 2015*



**17 MARCH 2015**

08:30



Registration and Welcome coffee - sponsored by Mayekawa

**COMMERCIAL REFRIGERATION APPLICATIONS**

09:00

Participants will be able to choose between different sessions including:

**Case Study Session: Commercial Refrigeration 1**

**Moderator: Diego Malimpensa, Carel**

**Torben M Hansen, Advansor**, Transcritical CO<sub>2</sub> retail technologies taking Southern tracks

**Diego Malimpensa, Carel**, BLDC waterloop systems in commercial refrigeration: the new frontier for natural refrigerants

**Venu Kandi, Emerson Climate Technologies**, Hydrocarbons: a viable natural refrigerant solution for medium temperature commercial refrigeration applications

**Vicente Guilabert, Huayi Compressor Barcelona**, The lowest energy consumption when using propane LBP fixed speed compressors in a light commercial refrigeration freezer

**Erik Wiedenmann, Frigo-Consulting AG**, CO<sub>2</sub> refrigeration system for tropical region

**Q&A**

**Case Study Session: Commercial Refrigeration 2**

**Moderator: Torben Funder-Kristensen, Danfoss**

**Udo Goerner, EPTA Deutschland**, Supermarket CO<sub>2</sub> transcritical cooling system with heating and air conditioning

**Torben Funder-Kristensen, Danfoss**, Barriers and opportunities for selection of best low GWP technologies

**Or Marek Zgliczynski, Embraco**, Low global warming alternatives for ultralow cascade applications

**Christian Heerup, Danish Technological Institute**, CDUs with CO<sub>2</sub> seen in the light of the F-Gas and ECO design directives

**Armin Hafner, SINTEF Energy Research**, Italian supermarkets: R744 multi-ejector enhanced parallel compression system


**Q&A**





10:30

Coffee and Networking break sponsored by





| CONSUMER GOODS END USER PANEL  |  |  |    |   |
|--|--|--|----|---|
| 11:00  | <p><b>Moderator:</b> Marc Chasserot, <a href="#">shecco</a></p> <p><b>Antoine Azar</b>, <a href="#">The Coca Cola Company</a>, R744 for light commercial applications</p> <p><b>Carlos Alberto Montoya</b>, <a href="#">Imbera</a>, CO<sub>2</sub> - Imbera development update</p> <p><b>Juergen Brenneis</b>, <a href="#">Red Bull</a>, Hydrocarbon bottle cooler in high ambient temperature conditions</p> <p><b>Wolfgang Lohbeck</b>, <a href="#">Greenpeace</a>, Why f- gases still are an issue</p> <p><b>Ezra Clark</b>, <a href="#">UNEP</a>, Supporting Refrigerants, Naturally!</p> <p><b>Q&amp;A</b></p>  |  |    |   |
| 12:00  | <p> <b>Networking Lunch - sponsored by EPTA</b></p>   |  |    |   |
| 12:30  | <p>Participants will be able to choose between different sessions including:</p> <table border="0"> <tr> <td style="vertical-align: top;"> <p><b>Technomercial:</b></p> <p><b>12:30 Thermo King</b> presents: CryoTech - Time to change</p> <p><b>12:50 Blupura</b> presents: R290 and R600 natural refrigerants in drinking water coolers and fountains</p> <p><b>13:10 Carel</b> presents: CAREL retail system for CO<sub>2</sub> convenience store</p> <p><b>13:30 Emerson Climate Technologies</b> presents: Emerson solutions for natural refrigerant systems</p> <p><b>13:50 Danfoss</b> video: Engineering the supermarket of tomorrow</p> </td> <td style="vertical-align: middle; text-align: center; font-size: 2em;">Or</td> <td style="vertical-align: top;"> <p><b>Workshop:</b></p> <p><b>National standards, codes and legislation - Overcoming barriers to the introduction of natural refrigerants across the EU</b> (brainstorming session for European Commission study under the EU F-Gas Regulation); <b>Arno Kaschl</b> (<a href="#">European Commission</a>), <b>Ray Gluckman</b> (<a href="#">consultant</a>)</p> </td> </tr> </table> | <p><b>Technomercial:</b></p> <p><b>12:30 Thermo King</b> presents: CryoTech - Time to change</p> <p><b>12:50 Blupura</b> presents: R290 and R600 natural refrigerants in drinking water coolers and fountains</p> <p><b>13:10 Carel</b> presents: CAREL retail system for CO<sub>2</sub> convenience store</p> <p><b>13:30 Emerson Climate Technologies</b> presents: Emerson solutions for natural refrigerant systems</p> <p><b>13:50 Danfoss</b> video: Engineering the supermarket of tomorrow</p> | Or | <p><b>Workshop:</b></p> <p><b>National standards, codes and legislation - Overcoming barriers to the introduction of natural refrigerants across the EU</b> (brainstorming session for European Commission study under the EU F-Gas Regulation); <b>Arno Kaschl</b> (<a href="#">European Commission</a>), <b>Ray Gluckman</b> (<a href="#">consultant</a>)</p> |
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| FOOD RETAILER PANEL |  |
|---------------------|--|
| 14:00               | <p><b>Moderators:</b> Marc Chasserot, <a href="#">shecco</a></p> <p>Jean Michel Fleury, <a href="#">Carrefour</a>, Natural refrigeration current status - "Guest star": Alzira Valencia</p> <p>Olaf Schulze, <a href="#">METRO AG</a>, METRO F-Gas Exit Program [FEP] 2015 - 2025</p> <p>Georgios Patkos, <a href="#">Delhaize</a>, Refrigeration at Delhaize</p> <p>Gabriel Romero, <a href="#">Auchan Super Spain</a>, Simply Gordoniz Bilbao (Spain) - CO<sub>2</sub> transcritical booster</p> <p>Amad Hafez, <a href="#">Modelo Continente Hipermercados</a>, SONAE'S experience with sub-critical systems</p> <p>Michel de Rooj, <a href="#">AHOLD</a>, Ahold's steps to proven sustainability</p> <p><b>Q&amp;A</b></p> |
| 15:15               | <p>Coffee and Networking break sponsored by</p> <div style="display: flex; justify-content: space-around; align-items: center;">    </div>  |
| SUPPLIER PANEL      |  |
| 15:45               | <p><b>Moderators:</b> Marc Chasserot, <a href="#">shecco</a></p> <p>Davide Refosco, <a href="#">SCM Frigo</a>, Nature and technology working as one</p> <p>Sergio Giroto, <a href="#">Enex</a>, Enex - leading in refrigeration</p> <p>Torben Hansen, <a href="#">Advansor</a>, Carbon footprint of natural refrigerant solutions</p> <p>Micael Antonsson, <a href="#">Green &amp; Cool</a>, Refrigeration market trends</p> <p>Jürgen Süß, <a href="#">efficient energy</a>, Natural water</p> <p>Francesco Mastrapasqua, <a href="#">Epta</a>, Driving the change: the lean approach to green thinking</p> <p><b>Q&amp;A</b></p>   |
| 17:00               | <p>Conclusions and farewell drink - sponsored by <a href="#">SANDEN</a></p>   |





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**Thank you very much!**



# Standup please!















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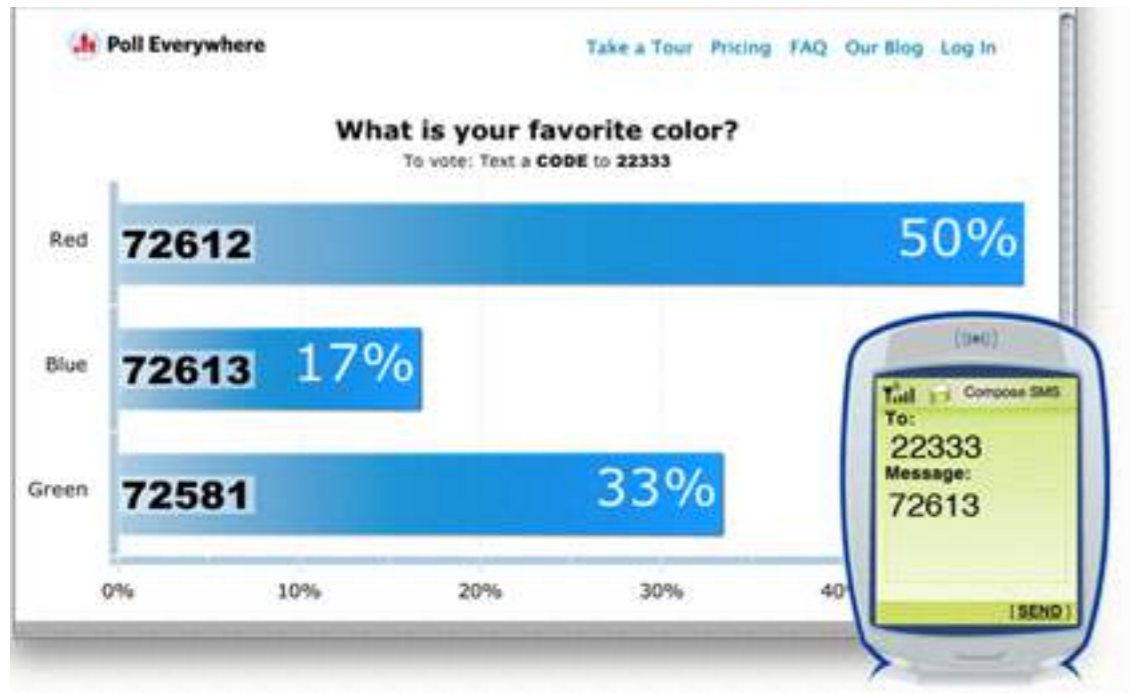
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| CONSUMER GOODS END USER PANEL  |  |  |    |   |
|--|--|--|----|---|
| 11:00  | <p><b>Moderator:</b> Marc Chasserot, <a href="#">shecco</a></p> <p><b>Antoine Azar</b>, <a href="#">The Coca Cola Company</a>, R744 for light commercial applications</p> <p><b>Carlos Alberto Montoya</b>, <a href="#">Imbera</a>, CO<sub>2</sub> - Imbera development update</p> <p><b>Juergen Brenneis</b>, <a href="#">Red Bull</a>, Hydrocarbon bottle cooler in high ambient temperature conditions</p> <p><b>Wolfgang Lohbeck</b>, <a href="#">Greenpeace</a>, Why f- gases still are an issue</p> <p><b>Ezra Clark</b>, <a href="#">UNEP</a>, Supporting Refrigerants, Naturally!</p> <p><b>Q&amp;A</b></p>  |  |    |   |
| 12:00  | <p> <b>Networking Lunch - sponsored by EPTA</b></p>   |  |    |   |
| 12:30  | <p>Participants will be able to choose between different sessions including:</p> <table border="0"> <tr> <td style="vertical-align: top;"> <p><b>Technomercial:</b></p> <p><b>12:30 Thermo King</b> presents: CryoTech - Time to change</p> <p><b>12:50 Blupura</b> presents: R290 and R600 natural refrigerants in drinking water coolers and fountains</p> <p><b>13:10 Carel</b> presents: CAREL retail system for CO<sub>2</sub> convenience store</p> <p><b>13:30 Emerson Climate Technologies</b> presents: Emerson solutions for natural refrigerant systems</p> <p><b>13:50 Danfoss</b> video: Engineering the supermarket of tomorrow</p> </td> <td style="vertical-align: middle; text-align: center; font-size: 2em;">Or</td> <td style="vertical-align: top;"> <p><b>Workshop:</b></p> <p><b>National standards, codes and legislation - Overcoming barriers to the introduction of natural refrigerants across the EU</b> (brainstorming session for European Commission study under the EU F-Gas Regulation); <b>Arno Kaschl</b> (<a href="#">European Commission</a>), <b>Ray Gluckman</b> (<a href="#">consultant</a>)</p> </td> </tr> </table> | <p><b>Technomercial:</b></p> <p><b>12:30 Thermo King</b> presents: CryoTech - Time to change</p> <p><b>12:50 Blupura</b> presents: R290 and R600 natural refrigerants in drinking water coolers and fountains</p> <p><b>13:10 Carel</b> presents: CAREL retail system for CO<sub>2</sub> convenience store</p> <p><b>13:30 Emerson Climate Technologies</b> presents: Emerson solutions for natural refrigerant systems</p> <p><b>13:50 Danfoss</b> video: Engineering the supermarket of tomorrow</p> | Or | <p><b>Workshop:</b></p> <p><b>National standards, codes and legislation - Overcoming barriers to the introduction of natural refrigerants across the EU</b> (brainstorming session for European Commission study under the EU F-Gas Regulation); <b>Arno Kaschl</b> (<a href="#">European Commission</a>), <b>Ray Gluckman</b> (<a href="#">consultant</a>)</p> |
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16-17 March 2015 in Brussels

| FOOD RETAILER PANEL |  |
|---------------------|--|
| 14:00               | <p><b>Moderators:</b> Marc Chasserot, <a href="#">shecco</a></p> <p>Jean Michel Fleury, <a href="#">Carrefour</a>, Natural refrigeration current status - "Guest star": Alzira Valencia</p> <p>Olaf Schulze, <a href="#">METRO AG</a>, METRO F-Gas Exit Program [FEP] 2015 - 2025</p> <p>Georgios Patkos, <a href="#">Delhaize</a>, Refrigeration at Delhaize</p> <p>Gabriel Romero, <a href="#">Auchan Super Spain</a>, Simply Gordoniz Bilbao (Spain) - CO<sub>2</sub> transcritical booster</p> <p>Amad Hafez, <a href="#">Modelo Continente Hipermercados</a>, SONAE'S experience with sub-critical systems</p> <p>Michel de Rooj, <a href="#">AHOLD</a>, Ahold's steps to proven sustainability</p> <p><b>Q&amp;A</b></p> |
| 15:15               | <p>Coffee and Networking break sponsored by</p> <div style="display: flex; justify-content: space-around; align-items: center;">    </div>  |
| SUPPLIER PANEL      |  |
| 15:45               | <p><b>Moderators:</b> Marc Chasserot, <a href="#">shecco</a></p> <p>Davide Refosco, <a href="#">SCM Frigo</a>, Nature and technology working as one</p> <p>Sergio Giroto, <a href="#">Enex</a>, Enex - leading in refrigeration</p> <p>Torben Hansen, <a href="#">Advansor</a>, Carbon footprint of natural refrigerant solutions</p> <p>Micael Antonsson, <a href="#">Green &amp; Cool</a>, Refrigeration market trends</p> <p>Jürgen Süß, <a href="#">efficient energy</a>, Natural water</p> <p>Francesco Mastrapasqua, <a href="#">Epta</a>, Driving the change: the lean approach to green thinking</p> <p><b>Q&amp;A</b></p>   |
| 17:00               | <p>Conclusions and farewell drink - sponsored by <a href="#">SANDEN</a></p>   |

# Standup please!







solutions for europe  

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**natural refrigerants**

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16-17 March 2015 in Brussels

**Thank you very much!**