

# FUTURE PROOF COOLING

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**Tel:** 0845 056 8069

Brochure code:

Conference code: U708

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## DELEGATE RATES

■ Please register at the rate of  
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### GROUP DISCOUNTS AVAILABLE

For information about group discounts please contact the conference team using the details in the box above.

## TERMS AND CONDITIONS

### DATA PROTECTION

By entering your details in the fields to the left, you agree to allow RAC Magazine, Emap Communications and companies associated with this event to contact you (by mail, email, telephone, SMS or fax) regarding their services. If you do not wish to receive such communications please contact us in writing.

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### BOOKING CONDITIONS

A confirmation email will be sent, from our London office within 3-5 working days from receipt of your booking. Please note that an invoice will be sent to you from our shared service centre in Peterborough within 7-10 working days. **Payment must be received before the conference date.** If payment is not received, delegates will be asked to guarantee payment with a personal credit card on the day.

### CANCELLATIONS / SUBSTITUTIONS

Cancellations made before Thursday 28th February 2008 will be charged at 10% of the invoice total. Cancellations made between this date and Thursday 13th March 2008 will be charged at 50% of the invoice total. Cancellations made after this date will be charged the full invoice total. However you can send a substitute delegate at any time. Bookings received less than two weeks before the conference date can only be paid by credit card. Cancellations and substitutions must be made in writing.

### ACCOMMODATION

For accommodation please contact Venue Search on tel: 020 8541 5656 or fax: 020 8547 3427 or email: [beds@venuesearch.co.uk](mailto:beds@venuesearch.co.uk) and quote this conference as a reference.

### ACCESS REQUIREMENTS

To help us ensure that all delegates attending the conference are able to participate fully, please let us know about any requirements you have by contacting the customer service team using the details above.

### DIETARY REQUIREMENTS

We always provide vegetarian options at our conferences, but please inform us if you need us to cater for any other dietary requirements.

**CONFERENCE LANGUAGE:** English.

### PLEASE NOTE

The conference fee covers entrance to all sessions, conference documentation and available papers, coffee / refreshment breaks and lunch.

**Please quote the conference code U708 and delegate's name in your correspondence**

27th March 2008, Olympia Conference Centre, London W14 8UX

# FUTURE PROOF COOLING



rac  
refrigeration and air conditioning magazine

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**Advances in efficient, affordable and eco-friendly alternative technologies**

Speakers from:

**Unilever**

Alan Gerrard, Technical Manager

**ASDA**

Brian Churchyard, UK Refrigeration Manager

**M&S**

Robert Arthur, Refrigeration Technologist - Store Design

**Coca Cola**

Antoine Azar, Retail Equipment Innovation

**Star Technical Solutions**

David Blackhurst, Director

**Enviros**

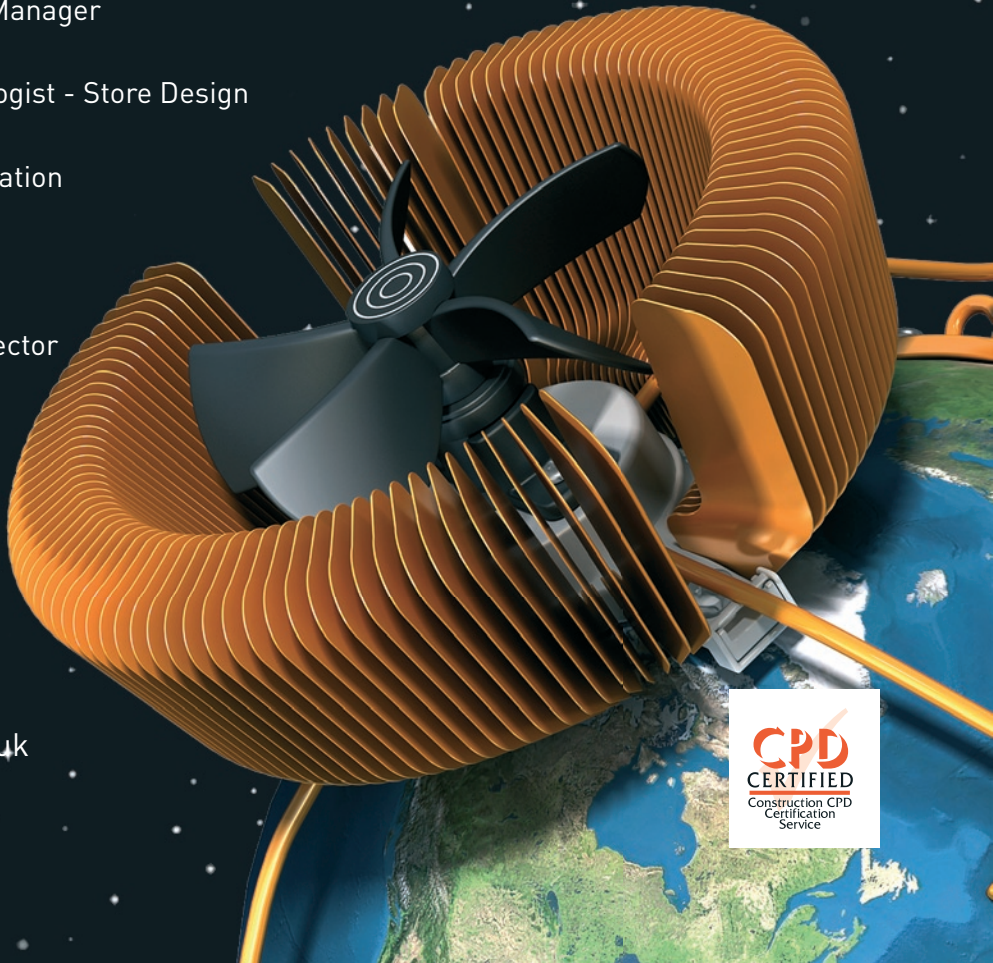
Ray Gluckman, Consulting Group Director

To register

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27th March 2008, Olympia Conference Centre, London W14 8UX

# FUTURE PROOF COOLING



## Advances in efficient, affordable and eco-friendly alternative technologies

End-users are seeking to develop new cooling technologies in a drive to future-proof their businesses. Concerns over future legislation, as well as an increased awareness and desire to offer more sustainable cooling solutions, are having an unprecedented impact on major investment decisions.

Leading companies across the world who depend on rac technology, such as major supermarkets, restaurant chains, and drinks manufacturers, are investing in substantial research and development programmes to trial alternative systems.

In response, RAC magazine is delighted to host the Future-proof cooling conference. This key industry event is the only place to hear from end-users who are pioneering the use of alternatives. Hear results of latest trials from Coca Cola, Tesco, M&S, and a host of others. Review technological developments in the use of carbon dioxide, ammonia and hydrocarbons, and assess their current and future mainstream commercial use. As a delegate you will also explore innovations in the use of HFCs, as well as the role that non-refrigerant based technologies may play in the industry's future.

**Future-proof cooling is set to have a dramatic impact on our industry make sure you know the full story... Book your place today!**

**An event not to be missed by all refrigeration and air-conditioning professionals from:**

- End-users
- Contractors
- Consultants
- Installers
- Engineers
- OEMs
- Manufacturers
- Service and maintenance specialists
- Equipment and systems designers
- Distributors
- Wholesalers
- Refrigerant suppliers

### **Sponsorship and exhibition opportunities**

For details on how to showcase your products and services at this event, and reach new clients, contact **Sarah Hughes** on **01386 793849** or at **sarah.hughes@emap.com**

Visit: [www.futureproofcooling.co.uk](http://www.futureproofcooling.co.uk)

Tel: 0845

# Programme

08:30 Registration and networking

09:00 Opening remarks from the Chair

Name, Editor  
RAC Magazine

## KEYNOTE

09:10 The drivers and the alternatives

- Why end users are developing future-proof technologies
- F-Gas: recent review and the future of HFCs
- EN378: impact of revisions on alternatives
- Meeting the 'green' agenda: the increasing importance of CSR
- Introducing the main alternatives: debunking the myths

Ray Gluckman, Consulting Group Director  
Enviros

09:40 Tesco case study: large scale application

- Shrewsbury store: approach to system design
- Review of latest results from trials: performance, costs and efficiency
- Environmental impact: how eco-friendly is the store?
- Future development plans

Alexander Cohr Pachai, Senior Engineer  
Johnson Controls

10:10 Coca Cola case study: small scale application

- Hear the results from worldwide trials in cabinets
- Review of progress with new hermetic technology
- What will the change mean for the company's carbon footprint and future capital investments?
- Global rollout: what are the next steps in the company's plans?

Antoine Azar, Retail Equipment Innovation  
Coca Cola

10:40 Question and answer session

10:50 Morning refreshments and networking

## HYDROCARBONS

11:20 Hydrocarbons: should you make the switch?

- Why should you consider hydrocarbons?
- Explore the practicalities of using HCs in commercial settings
- Review energy performance compared with HFCs
- Understand safety implications and its safety record
- End users: responses to date in relation to performance

Representative TBC  
AHT

11:50 The Co-Operative Group case study: dual technology

- Examine the implications of using hydrocarbons and CO2
- What is necessary to ensure the Total Store is HFC free in all areas?
- Assessing the cost implications of the switch and the necessary technology developments required
- How is the system performing to date, and will it be installed at other stores across the UK?

John Austin-Davies, Product Marketing Director  
The Epta Group

12:20 Questions and answer session

12:30 Lunch

## AMMONIA

13:30 Cheap, efficient, green: can it be a viable mainstream alternative?

- Review of some pioneering applications that take ammonia out of the industrial realm
- Assessing whether the negatives outweigh the positives
- Can its toxicity and flammability be managed cost-effectively?
- Reviewing its future potential as a mainstream commercial refrigerant

David Blackhurst, Director  
Star Technical Solutions

## NEW GENERATION HFCs

14:00 The future of HFCs - can they be a mainstream way forward?

DuPont and Honeywell have joined forces to develop a new generation of lower global warming potential HFC-based refrigerant for automotive applications.

- Hear the latest results from trials
- What are its properties and performance characteristics?
- When will it be commercially available?
- Assessing whether it has potential applications in mainstream static cooling

Neil Roberts, Technical Market Development Manager  
DuPont

14:30 End User panel

Leading UK and global end users outline their plans for future-proof cooling solutions. Where is their research and development focusing? Hear an update on the latest field trials and understand how the results are shaping future strategy and investment decisions

Panelists:

Alan Gerrard, Technical Manager  
Unilever

Brian Churchyard, UK Refrigeration Manager  
ASDA

Robert Arthur, Refrigeration Technologist - Store Design  
M&S

15:00 Question and answer session

15:10 Afternoon refreshment and networking

## BEYOND REFRIGERANTS - THE FUTURE?

This is a unique opportunity to hear from those thinking outside the box to offer truly sustainable, future-proof cooling technologies. Learn how the technologies work, the latest R&D advances, likely costs, and the timelines - when will we see these technologies be offered as affordable and viable commercial solutions?

15:30 Magnetic cooling

Dr. Neil Wilson, Managing Director  
Cambridge

15:45 Air cycle technology

Judith Evans, Senior Research Fellow  
Bristol University

16:00 Solar powered air-conditioning

Graham Wright, Product Manager  
Sanyo

16:15 Thermoacoustic refrigeration

Matthew Poese, Ph.D., Research Scientist  
Penn State University

16:30 Question and answer session

16:40 Closing remarks from the chair