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Editorial

Dear Members,

I hope that you enjoyed, enjoy or will enjoy your Summer holidays.

I have to thank Past President Mitchell for setting up an AREA VoIP Conference Server. It works quite well : quality, easiness and security.

VoIP@AREA

The VoIP Conferencing Server has been recently installed to provide internet based calling and conferencing facilities to AREA Members.

Detailed instructions for installation, configuration and use of the system can be found in a PDF file at <http://asterisk.mitchells-glos.co.uk/pdf/MGLConferenceSoftwareGuide.pdf>

Parties interested should contact the secretariat or Mr. Norman Mitchell.

A directory will progressively be informed at <http://asterisk.mitchells-glos.co.uk/>

Yours sincerely,



Robert Berckmans
Secretary General

Environment

F-Gas Regulation issue

An AREA ad hoc working group is trying really hard to finalize a proposal of AREA guidelines and recommendations for the implementation of the **Regulation 842/2006/EC** of the European Parliament and of the Council on certain fluorinated greenhouse gases (in particular article 3 – leakage checking and article 5 – certification of personnel and companies).

September will be an important month because we have to do our utmost to agree on the results to be reached in the above mentioned working group. Our Board will first tackle the question in early September and Members will then be asked to comment and vote on the proposal as amended by the Board. On October 9, a major meeting held at DG Environment will allow us to present an AREA position.

Draft Programme Monday 9 October 2006

09.30	Registration
10.00 – 10.15	Welcome and Objectives of the Workshop <i>DG ENV.C.4 Laurence Graff</i>
	Stakeholder Interventions (15 minutes)
10.15 – 10.30	Intervention Producers of F-Gases – Reporting & Recovery CEFIC
10.30 – 10.45	Intervention High Voltage switchgears CAPIEL
10.45 – 11.00	Intervention Cold Stores ESCLA/CIAA
11.00 – 11.15	Intervention Commercial Refrigeration Eurocommerce
11.15 – 11.30	Intervention Manufacturers of Equipment Eurovent
11.30 – 11.45	Intervention Fire Protection Systems Assure/EUROFEU
11.45 – 12.00	Intervention Service Sector Refrigeration/Air Conditioning AREA
12.00 – 12.15	Intervention Mobile air-conditioning – service sector EEAC
12.15 – 12.30	Intervention NGO Climate Change Network
14.00 – 14.15	Discussion on issues raised by interventions <u>Issues</u>
14.15 – 15.00	Definitions
15.00 – 15.30	Reporting
15.30 – 16.00	Checking requirements
16.00 – 16.30	Labelling
16.30 – 17.00	Recovery

17.00 – 17.30 Certification and training

17.30– 18.00 Conclusions

Provisional Dates for further meetings

Regulatory Committee: 6 December 2006

IIR (International Institute of Refrigeration) : an initiative for establishing a Natural Refrigerant Fund

quote

“We would like to inform you for intention to propose an Initiative for establishing of NATURAL REFRIGERANT FUND during the upcoming **IIR** conference **Ammonia Refrigeration Technology - for Today and Tomorrow**, April 19-21, 2007 in Ohrid, Macedonia.

Aim: promotion and implementation of technologies with natural refrigerants in developing countries together with developed countries.

After the Montreal Protocol, HFCs were developed as replacements for CFCs and HCFCs but are now themselves under threat on account of their high global warming potentials. There are opposite views and many hot debates about the present and future development in refrigeration and air conditioning regarding refrigerants. However, a major barrier is proper information regarding applications of the natural refrigerants, behind are different interests from more interested sides.

This is especially expressed in developing countries where penetration of HCFC and HFC technologies is more intensive. It is necessary technical assistance, education and training for safe operation with natural refrigerants, introduction of demonstration projects and modernization of existing plants.

Natural refrigerants are win-win solutions for the climate and the ozone layer.

You are kindly asked to support this initiative, and if possible to participate in the Ohrid meeting. We appreciate for any your proposal to improve and strengthen our efforts.

Best regards,
Prof. Risto Ciconkov
President of the Conference Organizing Committee

unquote

ASHRAE press release

ATLANTA – The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) will join with former President Bill Clinton in an initiative to reduce carbon emissions and increase efficiency in the worlds largest cities.

The Clinton Climate Initiative (CCI) is a Clinton Foundation program dedicated to making a difference in the fight against climate change in practical and measurable ways.

The initiative was launched Tuesday at a news conference in Los Angeles, where Clinton was joined by London Mayor Ken Livingstone, Los Angeles Mayor Antonio Villaraigosa and San Francisco Mayor Gavin Newsom. British Prime Minister Tony Blair also attended to show support for the initiative. ASHRAE President Terry Townsend, P.E., also was present.

“ ASHRAE has a long history of engineering for sustainability by applying its diverse technology to reduce the consumption of energy in the built environment,” Townsend said.

“ We are pleased to partner with the Clinton Foundation and others to accelerate the adoption of energy-saving technologies by city planners.”

For more than 30 years, ASHRAE energy standards have set the standard of care for the efficient use of energy resources in buildings. In particular, since being developed in response to the energy crisis in the 1970s, ASHRAE’s Standard 90.1, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, has influenced building designs worldwide. It has become the basis for building codes and a standard for building design and construction recognized throughout the world.

“ Recognizing the impact of buildings on global energy use and greenhouse gas emissions, ASHRAE will work with city planners to support development of codes, standards, energy use metrics, and other programs that lower environmental impacts,” according to an agreement signed by ASHRAE and the Foundation.

“ ASHRAE’s assistance will facilitate the transfer of existing tools and technology, and support solutions to common energy and greenhouse gas emission challenges facing large city group leaders.”

Urban areas are responsible for more than 75 percent of all greenhouse gas emissions in the world. Therefore, reducing energy use and greenhouse gas emissions in cities is fundamental to any effort to slow the pace of global warming.

“ It no longer makes sense for us to debate whether or not the earth is warming at an alarming rate, and it doesn’t make sense for us to sit back and wait for others to act,” said President Clinton at the announcement event. “ The fate of the planet that our children and grandchildren will inherit is in our hands, and it is our responsibility to do something about this crisis. The partnership between my Foundation and the Large Cities Climate Leadership Group will take practical and, most importantly, measurable steps toward helping to slow down global warming, and by taking this approach I think we can make a big difference.”

The Clinton Climate Initiative will assist the large cities in the group in reducing greenhouse gas emissions and increasing energy efficiency. To enable partner cities to do so, CCI will:

- Create a purchasing consortium that will pool the purchasing power of the cities to lower the prices of energy-saving products and accelerate the development and deployment of new energy-saving and greenhouse-gas-reducing technologies and products.
- Mobilize the best experts in the world, including ASHRAE, to provide technical assistance to cities to develop and implement plans that will result in greater energy efficiency and lower greenhouse gas emissions.
- Create and deploy common measurement tools and internet-based communications systems that will allow cities to establish a baseline on their greenhouse gas emissions, measure the effectiveness of the program in reducing these emissions and to share what works and does not work with each other.

There are a number of practical steps cities can take to increase efficiency and reduce emissions, including:

- Building codes and practices that make use of more effective insulation and more energy efficient windows, heating and ventilation systems, and lighting
- Localized, cleaner electric generation systems
- More intelligent design of electric grids both across the city and within office and municipal buildings

The CCI-Large Cities partnership is initially targeting 22 of the largest cities in the world - Berlin, Buenos Aires, Cairo, Caracas, Chicago, Delhi, Dhaka, Istanbul, Johannesburg, London, Los Angeles, Madrid, Melbourne, Mexico City, New York, Paris, Philadelphia, Rome, Sao Paulo, Seoul, Toronto, and Warsaw. Many of these cities will be visited by ASHRAE leaders as part of initiative later this calendar year. The partnership anticipates that many more cities will join over the next four to six months. Other partners in the Clinton Climate Initiative include the U.S. Green Building Council, the Alliance to Save Energy, and the International Council for Local Environmental Initiatives. ASHRAE is also partnering with the U.S. Green Building Council and the Illuminating Engineering Society of North America to develop the standard 189P, *Design of High-Performance Green Buildings Except Low-Rise Residential Buildings*. ASHRAE, founded in 1894, is an international organization of 55,000 persons. Its mission is to advance through research, standards writing, publishing and continuing education the arts and sciences of heating, ventilation, air conditioning and refrigeration (HVAC&R) to serve humanity and promote a sustainable world.

Education & vocational training



A group of national associations and institutions are applying for the following Leonardo da Vinci project : “European Clima-Systems Qualification – ECSQ”.

The promotor is the Italian federation Confederazione Nazionale dell’Artigianato e della Piccola e Media impresa Padova.

IKKE (DE) and KENTEQ (NL), that helped us in the AREA project, are partners. Our Polish Member, NRF, may join. Other Members are from the Czech Republic, France, Estonia and Bulgaria.

The project
(extract from their application form)

“The project European Clima-Systems Qualification (ECSQ) aims at developing solutions and guidance tools at sectoral level in particular to link the sectoral qualifications of heating, refrigeration and air conditioning installers to national and European Qualifications Frameworks.

At the moment, just a few European countries have a national qualification framework for installers and maintenance men; just some have a sectoral qualification scheme. Installation of industrial refrigeration and air conditioning systems is not a regulated profession in most of European countries: installers have seldom national rules and vocational training standards, although industrial refrigeration and air conditioning require accurate and qualified installation and maintenance because of environmental hazards connected with these kinds of plants. The first main aim of the project consists of collecting, translating and comparing all the existing sectoral and national frameworks in the different countries of the partnership. The second aim consists, with the collaboration of each partner, of developing a general sectoral qualification framework (QF) for installers to be linked to a European Qualifications Framework (EQF). Typically, International Sectoral QF should adopt the reference level and principles of the EQF in order to be considered for formal recognition at national level. Activities under the framework of the proposal will be the following:

1. Collection of all national and or sectoral QF translated in English and publication of it in a guide/handbook. The guide is the base of the sharing of experiences between all partners.

2. Organization of two European workshops, opened to partners and to any installer/designer, respectively dedicated to development and to discuss the test of the sector for heating, air conditioning/refrigeration plants installers. During the first workshop, installers and air conditioning system manufacturers will exchange experiences on national and European qualification standards, focusing on the development of an international sectoral QF for installers. The first workshop aims also at creating a standard educational and training path for heating systems installers, refrigeration and air conditioning installers, in respect of environmental preservation, technological innovation and economical benefits. The second workshop, at the end of the project, will be dedicated to debate, evaluate and disseminate the results of testing the EQF in the installation sector.

3. Between the two workshops the developed EQF will be tested by the different partners of the project.

4. Creation of a Guide and of an Internet site containing all the national rules and qualifications frameworks collected and presenting the European sectoral QF for installers produced by the workshops. The guide will be in digital format and it will include a general regulation for designers, installers and maintenance men, to be used in educational and training context.

The guide will outline the rules and the regulation about the installation and maintenance of heating and refrigeration systems for urging specific laws and quality regulation from the European Commission.

Sectoral QF developed by the partnership during the first workshop will be thought to fit the qualification of a specific kind of installers. Follow up activities will consist in adapting the first developed EQF to all kinds of installers on a European scale.”

And another project is applied for :

Project acronym: TELC, Testing ECVET (=European Credit transfer systems for Vocational Education and Training) for Leak Checking

(extract from their application form)

Objective: to develop a European credit system for Refrigeration Leak Checkers; this credit system should enable cross-boundary comparison of national qualifications and improve (cross-boundary) employment as well as further (permanent) education and development of Refrigeration Leak Checkers.

The recently introduced European Regulation on F-gases which has to be implemented in the Member States by July 2007, requires certification of companies and personnel involved with F-gases. Focusing on the certification of personnel, the first functionary (craftsman) has a European profile, developed during the AREA LdV-project. The second functionary involved with F-gases would be the Refrigeration Leak Checker. This person will be working with a refrigeration installer (e.g. assistant to the craftsman) (this would be the supply side) or for the ‘demand-side’ (owner / user of a refrigeration installation who does his own maintenance). Both sides have obligations under the F-gases regulation.

It is of great importance that the level of quality / qualification of the Leak Checker is at the proper height and ‘mandatory’ throughout Europe. Both for the sake of the environment as well as for fair competition throughout Europe and employee mobility.

This proposed project will focus on the validation of learning outcomes, not so much on the education or training itself. The validation will be achieved by assessing the activities performed by the Leak Checker.

The project will establish transparency with regard to qualifications in terms of knowledge, skills and wider competences in field of Refrigeration Leak Checking.

Approach: using the approach and results of the earlier LdV project as an example, the participating organisations will develop a European Profile for the Refrigeration Leak Checker, applying the ‘tool-box’ of the ECVET credit system.

Expected results: a clear understanding of the level of knowledge, skills and competences of the Refrigeration Leak Checker in the EU; this will form the basis for further education, qualification or certification of Refrigeration Leak Checkers throughout Europe, which is also required ex F-gases regulation.

Promoting and coordinating organisation: Het Branche Bureau BV, Baarn, Netherlands

AREA could be part as such a project, not as leader but as “controller” and “disseminator”.

Technical matters

The MINIREF Project



Mr. Joop Hoogkamer represents AREA in the project and will make a presentation in the coming Brussels General Assembly (November 18, 2006).

In the meantime, the Minutes of the 4th Steering Committee held in Apeldoorn on June 21 are reproduced here under :

From

Ronald Vermeeren (TNO)

Present

René Mulvad (AHE), Hieu Nhu Huynh (AHE), Bort de Graaf (Bort de Graaf), Rainer Jakobs (IZW), Horst Kruse, Dr. Stiller (FKW), Geert Doornbos (Helpman), Bjørn Vestergaard (Hydro Aluminium), Jens Andersen (Lodam Electronics), Mathijs van Dijk, Gerard Raaijmakers (NEKOVRI), Roberto Traversari (TNO chairman), Ronald Vermeeren (TNO), Hans Wijbenga (Wijbenga), Carole Prier (ECSLA), Allesandro Zudek, Bruno Wittreich and Marco Germani (Zudek)

Absent

With notification: Javier Cumplido (TEINSA), Robert Berckmans (AREA), Monika Witt (Witt)

- Welcome and start meeting

The meeting opened by Roberto Traversari at 9:00.

- Approval of the agenda

The agenda as presented see also the power point presentation ‘Agenda SC Meeting 200606’ is approved.

- Presentation and inclusion new partner

Presentation ZUDEK company

Mr. Wittreich gives a short introduction of the ZUDEK company, see also the power point presentation 'Presentazioneminiref'. ZUDEK will be replacing CTP Perozzo and will be responsible for the design and building of the NH₃ reference system and the conversion to the NH₃ MINIREF system.

Inclusion ZUDEK within the consortium

All required information is shipped to the EU on may 23rd. When within 6 weeks (till July 4th) no objections are made by the EU ZUDEK will be considered as included into the consortium starting on April 1st of 2006. To keep the progress the design work is already started and the installation is expected to be finalized in the end of august.

Consortium Agreement

ZUDEK accepted the consortium agreement and is willing to sign it. Since changes has to be made in the body of the agreement the agreement should be revised and signed again by all partners. TNO is looking for an easier way to accomplish this.

- Road map MINIREF system

Based on the discussion in the Technical Committee the following decisions were made regarding to the MINIREF road map:

- The Road map for the MINIREF systems (R507 and NH₃) are approved. The design of new components will start based on the predicted charge reduction values for each component. The designs will be changed and finalized based on the results of the measurements. The Road Maps will be finalized and presented on an A3 paper showing: time plan, tasks, research issues and task owners.
- During the conversion the control system must be taken into account to optimise the charge. During the measurements the environmental conditions of the condenser (RH, air temperature and wind velocity) should be taken into account for the comparisons of the systems. Solutions must be found to eliminate these influences.

During the discussion some additional issues were decided on:

- To arrive at a sensible definition on what is the optimum charge it was agreed that this decision should be taken before starting the tests.

- Progress reports technical work packages (WP 3 till WP8)

Based on the discussion during the Technical Committee meeting regarding the work in the work packages the following is decided:

- Based on advancing insight during the work being done the work planned for work packages 5 and 6 will be evaluated and reconsidered. Currently running activities will be set on hold temporarily until the Steering Committee has decided on a possible reallocation of tasks and budgets.
- TNO will make a proposal for a new plan (content, deliverables, finance, etc.) based on the needs of the consortium partners and the goal of the project. The plan will focus on the possibility of shifting details of the research from the compressor toward the heat exchanger to support the manufactures in their design (liquid distribution, drainage, defrosting). The use of existing programs (Sintef) will be investigated. The goal of the project is leading (reduction of the charge up to 95% of the total system and to disseminate knowledge how to do so).

The following research items that will have to be addressed where mentioned:

- 1) Water drainage under wet conditions
- 2) Frosting and defrost behavior
- 3) Liquid distribution;
 - 3.1) into MPE tubes placed in header
 - 3.2) into multiple small diameter tubes
- 4) Engineering design tool/Calc. model for small diameter round tubes
 - 4.1 Inside and outside and total heat transfer
 - 4.2 Void fraction/estimated refrigerant content
 - 4.3 Inside and outside pressure drop
 - 4.4 Validate model against test results

- WP 1: Management: Communication

Netgroup

To facilitate the use of the net group a short course was given by Bea Malchow to access the net group and read documents and how to publish documents. Besides that some people have problems in receiving the notifications, this will be sorted out by Bea Malchow. Since no further barriers are being expected in using the net group the following was decided:

- Communication within the consortium (documents, drawings, schemes, minutes, etc.). No documents will be sent by mail. Changes will be made in new versions so changes are traceable

Website

A first set up of the MINIREF website is presented. Due to the fact that only a few partners responded for the call for content (ECSLA, Wijnbenga, NVKL and TNO)

Netviewer

During the testing phase of the project intensive communication will be required between the partners. Since frequent face to face meetings is not a realistic option there is a need for a tool to have discussion via the internet. A tool that can supply this is the 'net viewer'. This tool has the following specifications:

- Video (web cam)
- Speech (head set)
- Exchange of information
- Sharing your desk top
- Indicating on desk top of other user
- White board
- Chat

It is agreed upon that a tool like this will be useful for communication within the consortium. However it is the question whether all items that are in the netviewer program are needed. Just using skype with a webcam is proven also to be a good option. TNO will make an inventory on the optional means available.

- WP 9: Users group

The progress in the work package is presented, see 'Work package 9 – 22 juni 2006'. For the next meeting a concept plan for the dissemination of knowledge will be made this will also include a further expansion of (the specific) user group (s).

- WP 11: Dissemination

Joop Hoogkamer presented the dissemination activities for the past and coming period, see power point presentation 'Presentations and publications 190606'. Also the first questions are risen that will form the basis of the dissemination plan. The concept dissemination plan will be ready for comment after the summer season.

- WP 1: Management: EU issues

There will come a clear procedure for final approval of drawings, schemes and deliverables. *Proposal: Two weeks prior to the due date drawings, schemes and deliverables will be put on the net group (with notification to the Steering Committee) for approval.*

'Agenda SC Meeting&extra 200606'

Deliverables

The deliverables as described in the agenda are sent to the EU and approved.

Past period

No.	Description	Lead participant	Delivery month
3.1	Model to predict control response times when minimizing refrigerant charge	TNO	February 2006
3.2	Model to predict dynamic fluid behaviour and pulsation in MINIREF system	TNO	March 2006
4.1	Report on literature survey on enhanced heat transfer	AHE	February 2006

Coming period:

No.	Description	Lead participant	Delivery month
3.4	Design package test installations suitable for conversion	ZUDEK/TEINSA	June 2006
4.2	Calculation model for enhanced flow and heat transfer for heat exchangers in the MINIREF concept	AHE	November 2006
5.1	Design drawings for high revolution compressor	FKW	October 2006
7.3	Control strategy in hardware and software implemented in test rig	Lodam	June 2006
8.1	Standard installation suited for minimal loads and high speeds	ZUDEK/TEINSA	July 2006

The responsible partners are requested to set the deliverables on the net group 2 weeks after the due that the latest for comments of the Steering Committee.

Redefinition deliverables

When changes are taking place in the work packages, conform the decision to restructure the research issues, also the deliverables should be changed. work package leaders whose work package might be subject to change (WP 5, WP 5 and WP 7) are requested to form their idea's over the definition of new deliverables.

Cost statements 3rd periods

All partners are requested to send their cost statements for the 3rd period (feb-april) a.s.a.p.

Yearly progress report

After the end of the first year of the project (juli 31st) a progress report should be issued to the EU this includes:

- Financial progress (Form C) to be filled in and signed by each partner
- Progress report for the project. All work package leaders are requested to make a report on their work package conform the format used by the EU (on net group)

All partners and WP leaders are requested to supply the coordinator with this information on **August 15th** the latest.

- Other issues

No other issues are brought to the table.

- Next meeting

The next meeting is scheduled for the 2nd or 3rd of November in Apeldoorn.

European Commission

The European Commission has opened a public consultation on **Heating and Cooling from Renewable Energy Sources (RES)**. The consultation is available at:

http://ec.europa.eu/energy/res/consultation/heating_cooling_en.htm

The purpose of the consultation is to contribute to the Commission's impact assessment on potential policies and measures to promote heating and cooling from RES. According to the Commission, the consultation addresses all renewable energies used to produce heating and cooling: solar thermal, geothermal and heat pumps, and biomass; as well as all types of measures/policies in order to evaluate their potential. Furthermore, all sectors of activity (the public sector, industry, energy services and district heating, tertiary and domestic) are addressed.

This consultation follows the European Parliament's resolution of last February in which the Parliament requested the Commission to come up with a legislative proposal on increasing the share of renewable energy for heating and cooling.

Stakeholders are requested to respond to the consultation by 6 October 2006 by filling in the online-questionnaire.

Intelligent Energy – Europe' (IEE) - http://ec.europa.eu/energy/intelligent/index_en.html - is a main means of converting EU policy for smart energy use and more renewables into action on the ground, addressing today's energy challenges and promoting business opportunities and new technologies.

IEE supports [European projects](#), [one-off events](#) and the setting up of local/regional energy agencies with a total budget of €250 million, covering up to 50% of the costs.

The programme currently supports more than 200 international projects, 30+ local/regional energy management agencies, and almost 40 European events in the areas of

- ▶ new and renewable energy sources
- ▶ energy efficiency, notably in buildings and industry
- ▶ energy aspects of transport
- ▶ co-operation with developing countries

A new [call for proposals](#) has been published in May 2006 - a great funding opportunity for European projects, events and the creation of new local/regional energy agencies.

Since 2005, the programme is implemented by the new [Intelligent Energy Executive Agency \(IEEA\)](#).

European Council

The Council has given a green light to Slovenia, the first of the EU-10 to join the euro area. It will exchange its tolar to euros as from 1 January 2007.

News from our Members

VDKF

IKK – A Market with a Future

As shown in the appendix, in the even years beginning in 2008 (2008/2010/2012) the IKK will take place in Stuttgart at the most modern exhibition centre in Europe. For the purposes of creating further added value we will offer a supplementary framework in the odd years in the form of an IKK building in association with ISH/Aircontec in Frankfurt. Building technology with exhibitors, system builders, planners and architects

enjoy concentrated representation here in the broadest form. In addition to the classic IKK in Stuttgart and the IKK Building, a common internationalisation strategy also offers an excellent and forward-looking exhibition arrangement. In addition, industry, trade and sector associations will be incorporated at national and international level in the greatest possible presence into the concept of „IKK - A Market with a Future“.

IKK Messe – Wirtschafts- und Informationsdienste GmbH

(signed)

Christian Scholz
Chairman of supervisory board

(signed)

Diplom-Volkswirt Rudolf Pütz
General Manager

Sister Associations

European Partnership for Energy and the Environment EPEE

AREA is invited to their General Assembly 2006 :

Date: 4th of October 2006
Time: 1000 am-1415 pm
Location: RADISSON SAS EU-HOTEL
Rue D'Idalie,35
B-1050 BRUSSELS
Tel.+32 2 6268111

Remember that EPEEs Energy Efficiency Event "KEEPING COOL" will take place on the 3rd of October between 1400-1830 pm in the Concert Noble, Rue d'Arlon, just a 3 minute foot walk from the Radisson SAS Hotel. It might be advisable to make an early room reservation with the Hotel for the night 3rd/4th of October.

American Society of Heating, Refrigerating and Air-Conditioning Engineers ASHRAE

Guidance on the use of CO² in refrigeration has been added to the 2006 Handbook. It includes information on cooling, freezing and storing food, industrial applications of refrigeration and low temperature refrigeration. To order : fax +1 404 321 5478, on-line bookstore on www.ashrae.org

NGO

About MIPIGGS

Source : EPEE (July 13)

The Multi-sectorial Initiative on Potent Industrial Green House Gases has made some recent changes on its website.

The first is the publication of a June Newsletter (<http://www.mipiggs.org/news160606.html>) which covers issues such as the fact Coke is not rolling out HFC-fridges in the US, the start of the F-gases Regulation (including the ICF report) and reports on HFC emission in France. It seems MIPIGGS is to start a letter writing campaign to companies to check on their F-gases strategy – the newsletter makes specific mention to Tesco and Walmart.

The second development is that the website now includes the MIPIGGS Solutions Database which is to support user source no -HFC equipment; the database can be reviewed at: <http://www.mipiggs-solutions.org.uk/>

Events

Refrigerants and the Law

20 September 2006, Kensington Close Hotel, London W8

For information, tel. +44 207 505 6041, fax +44 207 505 6002

The event is sponsored by our Member FETA.

Speakers include Past President Norman Mitchell (“Understanding your responsibilities to maintain and prove competency in refrigerant handling”) and Mr. René van Gerwen, Lead Engineer Refrigeration, Unilever, whom we used to meet in the AREA ECSLA meetings (“Complying with new regulations for the prevention of leakage”).

CIHE 2006

China International Heating, Ventilation, Air conditioning Products and Technology
14-16 September 2006, 6 East The Third Ring Road, Chaoyang District, Beijing

For information, tel. +8610 58221290, fax +8610 58221233, cihe-sheila@163.com

HVACR India 2006

26-28 October 2006, Bombay Exhibition Centre, Mumbai

For information, tel. +65 6534 3588, fax +65 6534 2330, melissaang@hqlink.com

ClimateWorld Moskow

13-16 March 2007, Crocus Expo, Moscow

For information, tel. +43 1 402 895414, fax +43 1 402 895454, msi@msi-fairs.com
