

SECOND ANNOUNCEMENT

CALL FOR PAPERS

DEUXIEME ANNONCE ET APPEL À COMMUNICATIONS

INTERNATIONAL CONFERENCE

CONFERENCE INTERNATIONALE

**8TH IIR GUSTAV LORENTZEN CONFERENCE
ON NATURAL WORKING FLUIDS**

8^E CONFERENCE IIF-GUSTAV LORENTZEN
SUR LES FLUIDES ACTIFS NATURELS

**SEPTEMBER 7-10, 2008
COPENHAGEN, DENMARK**

**REFRIGERATION AND ENERGY
– THE NATURAL CHOICE**

CONFERENCE OF THE INTERNATIONAL INSTITUTE OF REFRIGERATION
INVOLVING COMMISSIONS B1, B2 AND E1, E2

www.iir-gl-conference-2008.dk



INTERNATIONAL INSTITUTE OF REFRIGERATION

WELCOME

TO THE 8TH IIR GUSTAV LORENTZEN CONFERENCE ON NATURAL WORKING FLUIDS

THE INTERNATIONAL INSTITUTE OF REFRIGERATION (IIR)

The International Institute of Refrigeration (IIR), an intergovernmental organization comprising over 60 countries, is a forum for exchange of scientific and industrial know-how, and as such promotes progress and expansion of knowledge on refrigeration, air-conditioning, heat-pump and cryogenic technology and its use in companies, laboratories and organizations. The IIR's scientific and technical activities take place within 10 commissions corresponding to the different areas of refrigeration and their various applications, among them Commissions B1, B2, E2 and with the backing of Commission E1 that has organized the present conference.

The 8th IIR Gustav Lorentzen Conference on Natural Working Fluids in refrigeration, air-conditioning and heat pump systems with the topic "Refrigeration and Energy – The Natural Choice" is the eighth IIR International Conference on the use of non-artificial refrigerants. It follows the successful meetings in Norway (Trondheim) 2006, UK (Glasgow) 2004, China (Guangzhou) 2002, USA (Purdue) 2000, Norway (Oslo) 1998, Denmark (Aarhus) 1996 and Germany (Hannover) 1994. This biennial conference is the only one of its kind within this field of technology.

OBJECTIVES

Substances such as ammonia, hydrocarbons, water, air and carbon dioxide all naturally occur in the biosphere. In contrast to chemically produced compounds, using such fluids as refrigerant gives complete environmental safety and eliminates all uncertainty with respect to possible unforeseen effects. The strategy of replacing CFC, HCFC and HFC chemicals with natural fluids is now being applied to an increasing extent by the refrigeration, air-conditioning and heat pump industry, supported by several research groups and organizations.

The main objectives of the conference will be to discuss the latest research results and advances related to the use of natural working fluids in different types of systems and application areas. Through the presentation of invited and contributed papers, the conference participants will be introduced to the most recent progress in this important area of technology.

ORGANIZERS

- Danish Technological Institute
- Society of Refrigeration Engineers – a part of The Danish Society of Engineers
- Technical University of Denmark
- Danish Association of Refrigeration
- Danish Association of Authorized Refrigeration Contractors.

The conference is organized with assistance from the International Institute of Refrigeration (IIR) and involves Sections B "Thermodynamics, equipment and systems" and E "Air-conditioning, heat pumps, energy recovery" with Commissions B1, B2, E1 and E2.

ORGANIZING COMMITTEE

CHAIRMAN:

Svenn Hansen

Danish Technological Institute

MEMBERS (in alphabetical order):

Hans Jørgen Høgaard-Knudsen

Kai W. Jensen

Joachim "Joe" Paul

Lau Vørs

Society of Refrigeration Engineers

Danish Association of Refrigeration

Technical University of Denmark

Danish Association of Authorized Refrigeration Contractors

INTERNATIONAL SCIENTIFIC COMMITTEE

CHAIRMAN:

Joachim "Joe" Paul, Prof.

Technical University of Denmark

Delegate of the Kingdom of Denmark to the IIR

President of the Management and Executive Committee of the IIR

MEMBERS (in alphabetical order):

Ben Adamson, Principal Eng.

Refrigeration Engineering Pty Ltd, Australia

Member of Commission B2 of the IIR

Antero Aittomäki, Prof.

Technical University of Tampere, Finland

Delegate of Finland to the IIR

Member of Commission B1 of the IIR

Alexey Arkharov, Prof.

Bauman Moscow State Technical University

Member of Commission A1 of the IIR

Philippe Mbesse Bolomiki, Mr.

MINAGRI, Directeur du Génie Rural & de l'Amélioration du

Cadre de Vie en Milieu Rural Cameroon

Member of the Management Committee of the IIR

Florea Chiriac, Prof.

University of Bucharest, Romania

Affiliate of the IIR

Trygve M. Eikevik, Prof.

Norwegian University of Science and Technology, Norway

Private Member of the IIR

Andrew Gigiel, Dr.

University of Bristol, United Kingdom

Member of Commission D1 of the IIR

Eckhard Groll, Dr.

Purdue University, USA

Member of Commission E1 of the IIR

Carlos Infante-Ferreira, Dr.

Technical University of Delft, The Netherlands

Secretary of Commission B1 of the IIR

Anders Lindborg

Ammonia Partnership AB, Sweden

Member of Commission D1 of the IIR

Akio Saito, Prof.

Tokyo Institute of Technology, Japan

Regional Editor of the International Journal of Refrigeration

Jürgen Suess, Dr.

Danfoss A/S, Denmark

Member of Commission B2 of the IIR

Yu Bingfeng, Prof.

University of Xian, China,

Vice-President of the Science and Technology Council

of the IIR

Felix Ziegler, Prof.

Technical University of Berlin, Germany

Delegate of Germany to the IIR

Member of Commission E2 of the IIR

Regional Editor of the International Journal of Refrigeration

SCIENTIFIC AND TECHNICAL PROGRAMME

Conference sessions are planned and papers are requested on subjects related to the basic engineering science, design and application of refrigeration, air-conditioning and heat pump systems based on natural working fluids, including:

- Natural primary refrigerants
- Secondary coolants and ice slurry
- Low emission and low charge systems
- Sorption systems
- Non conventional refrigeration systems
- Heat transfer and fluid flow

Plenary and parallel sessions will be organised on the basis of these themes according to the number of papers accepted for presentation by the Scientific Committee. The presentations are planned to be implemented in Technical Sessions as follows:

FUNDAMENTALS

Properties of Refrigerants
Heat Transfer and Heat Exchangers
Lubricants
Low Refrigerant Charge
Low Emission Systems
Energy Demand

VAPOUR COMPRESSION

Ammonia
Carbon Dioxide
Hydrocarbons
Water
Air
Indirect Cooling

SORPTION AND OTHERS

Evaporative Cooling
Sorption Systems
Magnetic Refrigeration
Acoustic Refrigeration
Other Systems
HFC Systems

Note: Papers dealing with the application of HFCs, HCFCs and CFCs or making propaganda for their use will be strictly limited to breakthrough results.

CONFERENCE PROGRAMME OUTLINE

SUNDAY September 7th	MONDAY September 8th	TUESDAY September 9th	WEDNESDAY September 10th
	Registration	Registration	Registration
	Welcome and Opening Adress	Keynote Speaker and Technical Sessions	Keynote Speaker and Technical Sessions
	Coffee Break	Coffee Break	Coffee Break
	Keynote Speakers	Technical Sessions	Technical Sessions
	Lunch	Lunch	Lunch
	Technical Sessions	Technical Visits	Technical Sessions
	Coffee Break		Closing Ceremony
	Technical Sessions		
Pre-registration and Informal Get-together		Conference Dinner at "Grøften" in TIVOLI	

The Opening Adress will be given by Connie Hedegaard, the Danish Minister for the Environment.

DIETS

Participants, who are on a special diet, are requested to inform the Secretariat.

INFORMAL GET-TOGETHER

An informal get-together will be held at the Conference Centre. This event is for all participants and accompanying persons and is covered by the registration fee.

CONFERENCE DINNER IN TIVOLI

The conference dinner will be at "Grøften" in TIVOLI. The restaurant is situated within walking distance of the hotels.

CALL FOR PAPERS - INSTRUCTIONS FOR AUTHORS

Prospective authors of papers for the 8th IIR Gustav Lorentzen Conference for Natural Working Fluids are encouraged to send 150-200 word abstracts by ordinary mail or e-mail to the Organizers of the Conference. Please send the abstract along with the following basic information: Title and author name(s). For the presenter: Sex/Title, First name(s), Family name, Company/organization/Department, Address, Zip code, City, State, Country, Phone no. incl. Country Code and E-mail. Forms for Abstracts and Papers are available on the Homepage.

All documents and basic information must be sent to the Chairman of the Scientific Committee of IIR Gustav Lorentzen Conference 2008:

Prof. Joachim "Joe" Paul
Nils Koppels Allé 402
DK-2800 Lyngby, Denmark
E-mail: jp@mek.dtu.dk

Upon preliminary acceptance of the paper(s), detailed instructions will be sent to the authors on the preparation of their final paper(s).

ACCEPTANCE OF PAPERS

The information submitted for presentation at the conference must be original, unpublished and not intended for publication or presentation elsewhere. Authors will be notified as to whether or not their papers are accepted for presentation at the conference. Improvements in the paper content or lay-out can be requested, if necessary.

CONDUCTING OF SESSIONS

Authors and participants will receive full information on the programme regarding sessions and time allocated for the individual presentation of papers. Poster sessions may be organized.

CONFERENCE PROCEEDINGS

All papers of the final programme will be available on a CD-ROM at the conference. The Conference Proceedings containing the complete papers presented will be published in CD-ROM form as part of the IIR "Refrigeration Science and Technology" proceedings series distributed worldwide by the IIR. An updated version of a paper presented at the conference may be published after a peer review process in the International Journal of Refrigeration.

LANGUAGE

The official language is English. Papers, abstracts, presentations and discussions will be in English language. Simultaneous translation will not be provided.

TECHNICAL TOURS

A selection of technical visits will be offered in the afternoon of Tuesday September 9th. Visits will be free of charge, but registration is necessary. In connection with some of the visits only a limited number of people can participate. The planned technical visits are:

- TV1 Commercial refrigeration in supermarkets with CO²
- TV2 Hydrocarbons in direct use for air-condition purpose
- TV3 Low temperature freezing systems with CO²
- TV4 Industrial heat pump system using CO² as refrigerant

PROGRAMME FOR ACCOMPANYING PERSONS

Apart from the social events planned for the conference, tours of historic and cultural sights will be offered. The prices of the tours will be announced.



Scandinavian Airlines

OFFICIAL AIRLINE

The SAS Group is the official airline of the Conference and offers you a special discount. Simply quote event code **DK0811** when calling your local SAS office and save up to 20% on your ticket.

Find more information at www.flysas.com/delegates.

ACCOMMODATION

The Secretariat has made advance hotel bookings (September 7th to 10th) for the conference participants. The prices vary according to standard and location. Participants wishing to make a reservation are asked to complete a hotel reservation form on the website, and submit it directly to the hotel they choose. Hotel rooms will be allocated on a first come, first served basis and will be confirmed by the hotel. The hotels cannot guarantee that there will be vacant rooms after June 1, 2008. We advise participants to make reservations early.

Copenhagen Marriott Hotel *****

Phone: +45 8833 9900
mhrs.cphdk.reservations@marriott.com
www.marriott.com/cphdk
Ref. No.: Block code ING

DELUXE WATER VIEW
Single/Double room
1.999,- DKK / ~265 EUR

Breakfast not included 165,- DKK / ~25 EUR

DELUXE CITY VIEW
Single/Double room
1.899,- DKK / ~255 EUR

The Square ***

Phone: +45 3338 1200
thesquare@arp-hansen.dk
www.thesquarecopenhagen.com
Ref. No.: BI 460550

STANDARD
Single room
1.270,- DKK / ~170 EUR

Breakfast not included 95,- DKK / ~15 EUR

STANDARD
Double room
1.510,- DKK / ~200 EUR

Cab Inn City **

Phone: +45 3346 1616
city@cabinn.dk
www.cabinn.com
Ref. No.: 126139

CAPTAIN
Single room
745,- DKK / ~100 EUR

COMMODORE
Single room
645,- DKK / ~90 EUR

STANDARD
Single room
545,- DKK / ~75 EUR

Breakfast not included 50,- DKK / ~10 EUR

CAPTAIN
Double room
865,- DKK / ~115 EUR

COMMODORE
Double room
765,- DKK / ~105 EUR

STANDARD
Double room
665,- DKK / ~90 EUR

REGISTRATION AND FEES

You have to fill in and submit a registration form on the website www.iir-gl-conference-2008.dk. The registration will be confirmed by e-mail. You will be accepted as a participant as soon as your payment has been received.

REGISTRATION FEES	BEFORE JUNE 1, 2008	AFTER JUNE 1, 2008 AND ON-SITE
PARTICIPATION IN THE WHOLE CONFERENCE		
Ordinary participants	5.150 DKK / ~ 680 EUR	5.750 DKK / ~ 760 EUR
Corporate and Private members of IIR	4.900 DKK / ~ 650 EUR	5.450 DKK / ~ 720 EUR
Presidents of IIR's Councils ¹⁾	4.600 DKK / ~ 610 EUR	5.150 DKK / ~ 680 EUR
Sections and Commissions ²⁾		
Speakers ³⁾	4.100 DKK / ~ 540 EUR	4.600 DKK / ~ 610 EUR
Students	2.600 DKK / ~ 340 EUR	2.900 DKK / ~ 380 EUR
1-DAY PARTICIPATION IN THE CONFERENCE		
Ordinary participants	2.600 DKK / ~ 340 EUR	2.900 DKK / ~ 380 EUR
Corporate and Private members of IIR	2.450 DKK / ~ 320 EUR	2.750 DKK / ~ 360 EUR
Presidents of IIR's Councils ¹⁾		
Sections and Commissions ²⁾	2.300 DKK / ~ 300 EUR	2.600 DKK / ~ 340 EUR
Speakers ³⁾	2.050 DKK / ~ 270 EUR	2.300 DKK / ~ 300 EUR
Students	1.300 DKK / ~ 170 EUR	1.450 DKK / ~ 190 EUR
ACCOMPANYING PERSONS		
Accompanying persons	1.850 DKK / ~ 240 EUR	2.050 DKK / ~ 270 EUR

¹⁾ *General Conference, Executive Committee and Science & Technology Council*

²⁾ *Section B "Thermodynamics, equipment and systems" and E "Air -conditioning, heat pumps energy recovery" with Commissions B1, B2, E1 and E2*

³⁾ *A deposit of 1.500 DKK / ~ 200 EUR has to be paid when the final paper is forwarded.*

THE REGISTRATION FEE FOR SPEAKERS, MEMBERS OF THE IIR, OTHER CONFERENCE PARTICIPANTS AND STUDENTS COVERS: Access to scientific sessions, the preprints of abstracts, the proceedings CD-ROM, informal get-together, one technical visit, conference dinner, lunch, coffee and tea during breaks.

THE REGISTRATION FEE FOR AN ACCOMPANYING PERSON COVERS: Informal get-together and conference dinner.

PAYMENT

Soon after the confirmation of the registration you will receive an invoice with all necessary instructions for the payment. Payment shall be forwarded in Danish kroner (DKK) and can only take place by bank transfer and not by any kind of credit card (VISA, American Ex-press, Diners, Eurocard, Mastercard, etc.). On site the Secretariat only accepts payment by cash.

NB! All charges for currency exchange etc. are on the account of the registrant.

CANCELLATION

Notification of cancellation must take place in writing (letter, fax or e-mail) and be sent to the Secretariat. For cancellation before June 1, 2008 all fees except for a cancellation charge of DKK 500 will be refunded. For cancellation received before 1st August a 50% refund will be made. For cancellation after that date, fees will not be refunded. All refunds will be dealt with after the conference.

TIMETABLE

• Third Announcement	February 1 st 2008
• Pre-registration. Deadline for title and abstract to be received	February 15 th 2008
• Authors notified of acceptance of abstract	March 15 th 2008
• Deadline for papers to be received - full paper submittal	May 31 st 2008
• Authors notified of acceptance of paper	June 30 th 2008
• Deadline for revised papers to be received – with requested changes	July 31 st 2008
• 8 th IIR Gustav Lorentzen Conference	September 7 th to 10 th 2008

INFORMATION AND CONTACT ADDRESS

For further information, registration and accommodation forms, information on abstracts and papers, the scientific programme and social events and other related correspondence, please contact the relevant person:

GENERAL INFORMATION, REGISTRATION, CORRESPONDENCE:

Conference Secretariat for IIR Gustav Lorentzen Conference 2008
 Ms. Hanne Christoffersen
 Kongsvang Allé 29
 DK-8000 Aarhus, Denmark
 E-mail: secretariat@iir-gl-conference-2008.dk

PROGRAMME, ABSTRACTS AND SCIENTIFIC PAPERS:

Chairman of the Scientific Committee of IIR Gustav Lorentzen Conference 2008
 Prof. Joachim "Joe" Paul
 Nils Koppels Allé 402
 DK-2800 Lyngby, Denmark
 E-mail: jp@mek.dtu.dk

Conference Home-page:

www.iir-gl-conference-2008.dk



VENUE - WHEN AND WHERE

September 7-10, 2008

The conference venue is the beautiful "Conference Centre of the Society of Danish Engineers IDA". This is where you will find a 5 star conference centre, cosy café at the waterfront and a tower restaurant with a breathtaking view of the canals and port of Copenhagen.

The Conference Centre is located in the heart of Copenhagen - about 5-10 minutes walking distance from the central city.

September is usually a warm and sunny month and summer is still enjoyed throughout the city and everywhere else in Denmark.

GENERAL INFORMATION

INSURANCE

The Organizing Committee takes no responsibility for injury or damage involving persons or property during the conference. Participants are advised to arrange their own personal insurance.

BANK FACILITIES

Banks are located downtown and banking hours are usually 09.00 – 16.00 (Monday – Friday). NB! Closed Saturdays and Sundays. Participants are advised to procure cash/change currency (in Danish kroner) upon arrival at Copenhagen airport. Most hotels accept major credit cards.

VISA

For visitors from some countries a visa might be necessary. All participants are requested to arrange their own travel documents. Please note that it sometimes takes up to 2-3 months to get a visa. If you need a special invitation letter, then please contact the Secretariat.



COPENHAGEN, THE CAPITAL OF THE KINGDOM OF DENMARK,...

was founded more than 1000 years ago. Copenhagen is well-known under slogans such as "wonderful Copenhagen" or "swinging Copenhagen" illustrating how the friendly Danes mix with guests from all over the world. As you walk through the streets and alleys of Copenhagen you might encounter traces from personalities such as the fairy-tale writer Hans Christian Andersen, the philosopher Søren Kierkegaard, the ballet master August Bournonville, the painter C.W. Eckersberg, the natural scientist H.C. Ørsted (who discovered electromagnetism) or the sculptor Bertel Thorvaldsen. The oldest part of the inner city area of Copenhagen has now become a shopping and entertainment area that attracts people from the surrounding areas – among the attractions is the famous "Tivoli" which is the oldest amusement park in the world.



TELEFAX

TO CONFERENCE SECRETARIAT FOR
8TH IIR GUSTAV LORENTZEN CONFERENCE 2008

FAX NUMBER: +45 7220 1212

PRE REGISTRATION FORM

MS/MRS/MR and TITLE:

FIRST NAME(S):

FAMILY NAME:

ADDRESS:

COMPANY/ORGANIZATION/DEPARTMENT:

ADDRESS:

ZIP CODE and CITY:

STATE and COUNTRY:

TELEPHONE NO. INCL. COUNTRY CODE +:

E-MAIL:

I PLAN TO PARTICIPATE IN THE CONFERENCE, PLEASE KEEP ME POSTED

I PLAN TO PARTICIPATE AND PRESENT PAPER(S) (TITLES):

PLEASE NOTE: That your pre-registration form also can be submitted on our website
www.iir-gl-conference-2008.dk

Conference Secretariat for
8TH IIR Gustav Lorentzen Conference 2008
Kongsvang Allé 29,
DK-8000 Aarhus, Denmark

WELCOME TO THE 8TH IIR GUSTAV LORENTZEN CONFERENCE ON NATURAL WORKING FLUIDS

FURTHER INFORMATION FROM THE CONFERENCE WEBSITE:
www.iir-gl-conference-2008.dk

ORGANIZED BY



Danish Technological Institute (DTI)



Society of Refrigeration Engineers - a part of The Danish Society of Engineers



Technical University of Denmark



Danish Association of Refrigeration



Danish Association of Authorized Refrigeration Contractors

SPONSORS



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Conference Secretariat for
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