

FIRST ANNOUNCEMENT
CALL FOR PAPERS
PREMIÈRE ANNONCE ET APPEL À COMMUNICATIONS

INTERNATIONAL CONFERENCE
CONFÉRENCE INTERNATIONALE

8TH IIR GUSTAV LORENTZEN CONFERENCE ON NATURAL WORKING FLUIDS

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

SEPTEMBER 7TH TO 10TH 2008
COPENHAGEN, DENMARK

REFRIGERATION AND ENERGY
– THE NATURAL CHOICE

JOINT CONFERENCE OF
THE INTERNATIONAL INSTITUTE OF REFRIGERATION

COMMISSIONS B1, B2, E2 WITH E1



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, thus promoting 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, airconditioning 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, the use of such fluids as refrigerants gives complete environmental safety and eliminates all uncertainty with respect to possible unforeseen effects. The strategy of replacing CFC, HCFC and HFC chemicals by 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

The conference is a joint Commission Meeting of commissions B and E of the IIR, organized by the

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

The conference is organized with assistance from the International Institute of Refrigeration IIR.

ORGANIZING COMMITTEE

CHAIRMAN:

Svenn Hansen

Danish Technological Institute

MEMBERS:

Hans Jørgen Høgaard-Knudsen

Society of Refrigeration Engineers

Kai W. Jensen

Danish Association of Refrigeration

Joachim "Joe" Paul

Technical University of Denmark

Lau Vørs

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

Member of Commission E2 of the IIR

MEMBERS:

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 to 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.

University of Tokyo, 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 applications 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 SORPTION AND OTHER SYSTEMS

Ammonia
Carbon Dioxide
Hydrocarbons
Water
Air
Indirect Cooling
Evaporative Cooling
Sorption Systems
Magnetic Refrigeration
Acoustic Refrigeration
Other Systems
HFC Systems

Note: Papers dealing with applications of HFCs, HCFCs and CFCs or propagating their use will be strictly limited to breakthrough results.

The programme will include social events for the conference.

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 following basic information: Title and authors name(s). For the presenter: Sex/Title, First name(s), Family name, Company/organization/Department, Address, Zip code, City, State, Country, Telephone no. incl. Country Code and Email.

All documents and basic information must be sent to

Prof. Joachim "Joe" Paul

Chairman of the Scientific Committee of IIR Gustav Lorentzen Conference 2008

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).





VENUE - WHEN AND WHERE 7th to 10th of September 2008

The conference venue is the beautiful "Conference Centre of the Society of Danish Engineers IDA". There 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, mostly sunny month and summer is still celebrated throughout the city as in all Denmark.

All papers within the final program will be available in a Preprint or on a CD-ROM at the conference.

ACCEPTANCE OF PAPERS

The information submitted for presentation at the conference must be original, unpublished and not being considered 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. Posters sessions may be organized.

CONFERENCE PROCEEDINGS

The Conference Proceedings containing the full 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 can 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

Technical tours will be scheduled.

ACCOMPANYING PERSONS' PROGRAMME

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.

ACCOMMODATION

Conveniently located accommodation in various categories of hotels at preferential rates will be recommended.

REGISTRATION

The participation fees (including the registration fees, the Preprints or CD-ROM and the final CD-ROM proceedings, coffee breaks, lunches, the Conference dinner and social events mentioned in the conference programme) have not been decided yet.

Information about all the fees will be given in 2nd Announcement and Call for Papers.

TIMETABLE

• Second Announcement	October 1 st 2008
• 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 address:

General information, registration, correspondence:

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

Programme, abstracts and scientific papers:

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

Conference Home page:

www.iir-gl-conference-2008.dk

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 Kirkegaard, 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:

ADRESS:

ZIP CODE and CITY:

STATE and COUNTRY:

TELEPHONE NO. INCL. COUNTRY CODE +:

EMAIL:

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

I PLAN TO PARTICIPATE IN PRESENTING PAPER(S) (TITLES):

Observe that your pre registration also may 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

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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 Contractors
Danish Association of Authorized Refrigeration Contractors



SPONSORS

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