

# The 23<sup>rd</sup> IIR International Congress of Refrigeration

Refrigeration for Sustainable Development

August 21 – 26, 2011

Prague, Czech Republic

[www.icr2011.org](http://www.icr2011.org)

## FIRST ANNOUNCEMENT AND CALL FOR PAPERS

### Purpose and Scope

The 23<sup>rd</sup> IIR International Congress of Refrigeration will present the latest research data, scientific proof and impartial discussions in the fields of:

- Thermodynamics and transfer processes
- Refrigeration equipment
- Cryophysics, cryoengineering, liquefaction and separation of gases
- Cryobiology, cryomedicine
- Food science and engineering
- Refrigerated storage and transport
- Air conditioning, heat pumps and energy recovery

### Congress Format

- Plenary sessions with distinguished speakers (5)
- Keynote presentations (>10)
- Oral and posters presentations (>500)
- IIR Working Parties and Sub-commission meetings (13)
- IIR Commission meetings (10)
- Exhibition of state-of-the-art technologies and laboratory equipment
- Technical visits to unique sites
- Side events – workshops, short courses
- Welcome party, concert of Baroque music, gala dinner with awards ceremony
- Programme for accompanying persons



## IIR Working Parties (meetings confirmed)

- Refrigerant Charge Reduction in Refrigerating Systems
- Energy Labeling in the Cold Chain
- Cold Chain for Pharmaceutical Products
- Preservation of Genetic Resources
- Cold Chain Optimization
- Cold Chain in Warm Countries
- Magnetic Cooling
- Mitigation of Emissions of Greenhouse Gases in Refrigeration
- Phase-Change Materials and Slurries for Refrigeration and Air Conditioning
- Data and Models for Refrigeration and Freezing Foods
- Refrigerant System Safety

## IIR Sub-commissions (meetings confirmed)

- Sub-commission D1 on Refrigerated Display Cabinets
- Sub-commission D2 CERTE on Test Stations (Refrigerated Transport)



## Call for Abstracts

Join world experts to submit an original paper within the congress scope – a complete list of themes can be downloaded from the Congress Web site. The Web site also provides the Guidelines for Authors, and other key information and details. Both abstracts and papers will be reviewed by at least two experts in the field.

### Dates

Abstract submission deadline

**5 November 2010**

Full paper submission deadline

18 February 2011

### Proceedings

Thomson Reuters is interested in evaluating the Congress proceedings for possible inclusion in Conference Proceedings Citation Index (CPCI). CPCI is searchable through the Web of Science platform, and replaces the ISTP Proceedings database. The proceedings will also be searchable through search engines such as Google Scholar.

Extended versions of selected papers presented at the Congress can be published in the International Journal of Refrigeration (IJR). The candidate papers will be identified during the review process, and recommended to the IJR editors.

## Hot Topics

- Energy use and energy efficiency (all refrigeration fields)
- Advances in vapor compression cycles and equipment design
- Carbon footprint for food products and cold chain technologies
- Delivery of ready to eat horticultural products
- Efficient heat and mass transfer processes
- Food product traceability, temperature and quality monitoring, refrigerated food authenticity
- Hydrogen liquefaction, processing and storage (hydrogen economy)
- Thermal comfort and indoor air quality
- Legislation and policy (equipment safety, climate change, efficiency labeling)
- Low-GWP refrigerants for the future (next generation, natural)
- Lubrication for future refrigerants
- Minimization of refrigerant charge
- Novel concepts and alternative cooling technologies (magnetic, acoustic, water, etc.)
- Onshore liquefied natural gas (LNG) distribution systems
- Predictive food microbiology and risk analysis
- Progress and applications in developing countries
- Refrigeration and cold chain management
- Refrigeration concepts related to carbon capture and storage
- Role of refrigeration and heat pump systems in climate change mitigation
- Safety and quality assurance in preservation of cells/tissues and organs for transplantation
- Solar cooling, solar-assisted heat pumps
- Standards and guidelines (all refrigeration fields)

## IIR Science and Technology Council

Hein Auracher (Germany) • John G. Baust (USA) • Clark W. Bullard (USA) • Gérald Cavalier (France) • Václav Chrz (Czech Republic) • Donald J. Cleland (New Zealand) • Giovanni Cortella (Italy) • Piotr A. Domanski (USA) • Ralf Herzog (Germany) • Renato Lazzarin (Italy) • Philippe Lebrun (Switzerland) • Weiding Long (China) • Per G. Lundqvist (Sweden) • Bart Nicolai (Belgium) • Sietze M. van der Sluis (the Netherlands)

## Prague, the Czech Republic

Prague is one of the most beautiful cities in Europe. Built between the 11th and 18th centuries, the Castle District, the Old Town, the Lesser Town and the New Town demonstrate the great architectural and cultural influence enjoyed by this city since the Middle Ages. The historic centre of Prague has been included in the UNESCO World Heritage List.

Prague is a true cultural treasure trove, bursting with fascinating museums, galleries, theatres, three opera houses and other venues. Prague has played host to some of the world's greatest composers of classical music – Antonín Dvořák, Bedřich Smetana, and Wolfgang Amadeus Mozart. Prague is the hometown of Franz Kafka, who is considered to be one of the most important and influential fiction writers in modern western literature.

One can also enjoy Czech hospitality and friendliness. The Czech Republic is renowned for its beer and a long beer brewing history. Today, there are over 400 original beer brands in the Czech Republic. The best-known brands are Pilsner Urquell and Budweiser Budvar. Football and ice hockey are very popular national sports. The most famous players are Pavel Nedvěd and Petr Čech in football, and Jaromír Jágr in ice hockey.

Refrigeration has a long-standing tradition in Czech industry and science, with many examples of original equipment developed and produced in the country. Some of the most recognized brands have been ČKD, Škoda, Ferox and Frigera. Former Czechoslovakia became a member country early in the history of the IIR: in 1921. Major political changes in 1989 lead to several new ventures.

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### Venue

The Prague Congress Centre is the largest conference and cultural centre in the Czech Republic, with a beautiful panoramic view of Prague with its Castle, Downtown, and the Vltava River.

Address: 5. května 65, 140 00 Praha 4, Czech Republic, [www.kcp.cz](http://www.kcp.cz)

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### Traveling to Prague

Prague International Airport handles flights of most European carriers and also some overseas flights. The Prague Public Transport Company offers frequent connections with the centre of Prague, which is located about 15 km from the airport. Traveling to and around Prague is fast and easy.





## Who Should Come

Senior representatives of engineering, marketing and product development • Innovation leaders • Professors • Researchers • Teachers • Students • System and equipment designers • Professional engineers • Production and operation managers • Policy makers

## International Institute of Refrigeration

The International Institute of Refrigeration ([www.iifir.org](http://www.iifir.org)) is the only independent intergovernmental organization which promotes knowledge of refrigeration and associated technologies that are necessary for life in a science-based, cost-effective and environmentally sustainable manner. The IIR unites 61 member countries on all continents, nearly 500 experts and 600 corporate and private members.

IIR provides the following services:

- Access to Fridoc, the biggest refrigeration database in the world
- Access to the Bulletin of the IIR, the only abstract journal entirely devoted to refrigeration and all its applications
- Access to exclusive thematic files written by IIR specialists
- Access to the Expertise Directory and the Research Laboratory Directory

IIR congresses are milestone events held once every 4 years, bringing together the most important industrial and academic refrigeration stakeholders from all parts of the world. The most recent IIR Congress in Beijing in 2007 was attended by 1308 participants from 55 countries.

## Principal IIR Officers and Organizers



Joachim "Joe"  
Paul

President  
of the  
Management  
Committee



David  
J. Tanner

President of  
the Science  
and Technology  
Council



Didier  
Coulomb

Director of IIR



Radim  
Čermák

Chairman of  
the Organizing  
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Chairman of  
the National  
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## Congress Management

For all enquiries, please contact:



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Ministry of  
Industry  
and Trade