

The International Institute of Refrigeration

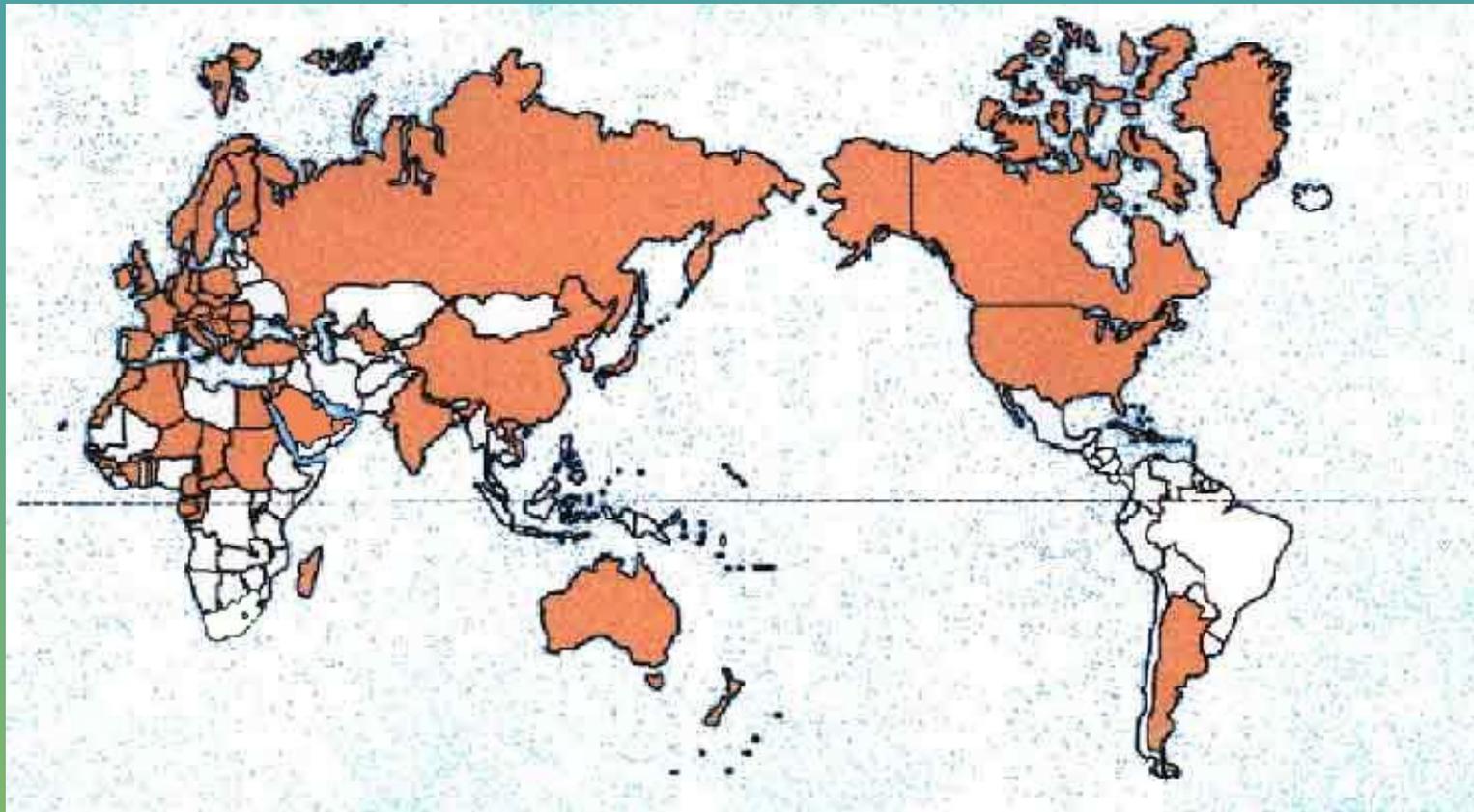


177 Bd Malesherbes 75017 Paris - France

www.iifiir.org

Member Countries

- Intergovernmental organization
- 60 Member Countries
- Developed and developing countries



The IIR - Members

- Member Countries
- Commission Members (nominated by countries)

Country Category	Number of countries	Number of Commission Members per country
1	5	30
2	2	20
3	5	15
4	11	10
5	18	5
6	20	3

- Corporate and Private Members
 - Private companies (equipment, utilities, food and health products,...), Consultants, Universities,...
 - Special prices for junior members (16 € under 29, 60 € under 35)
 - Differentiated fees as of 2011, according to member-country status
 - For valuable and updated information



Mission of the IIR

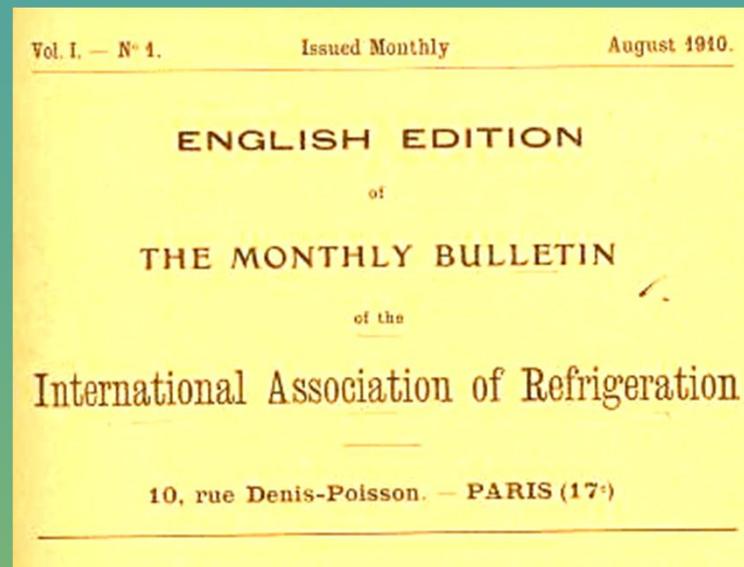
The International Institute of Refrigeration (IIR) is the only independent intergovernmental organization which promotes knowledge of refrigeration and associated technologies that are necessary for life in a science-based, cost-effective and environmentally sustainable manner including:

- Food quality and safety from farm to consumer
- Comfort in homes and commercial buildings
- Health products and services
- Low temperatures and liquefied gas technologies
- Energy efficiency
- Use of non-ozone depleting and low global warming refrigerants in a safe manner



History of the IIR

- 1908 – 1st International Congress of Refrigeration
- 1909 – International Association of Refrigeration
- 1910 – First Bulletin of the IIR



- 1920 – Intergovernmental Organization: the IIR



Key IIR dates

- 2008 – IIR Centenary!



- 2011 – Prague Congress



- 2015 – Yokohama Congress

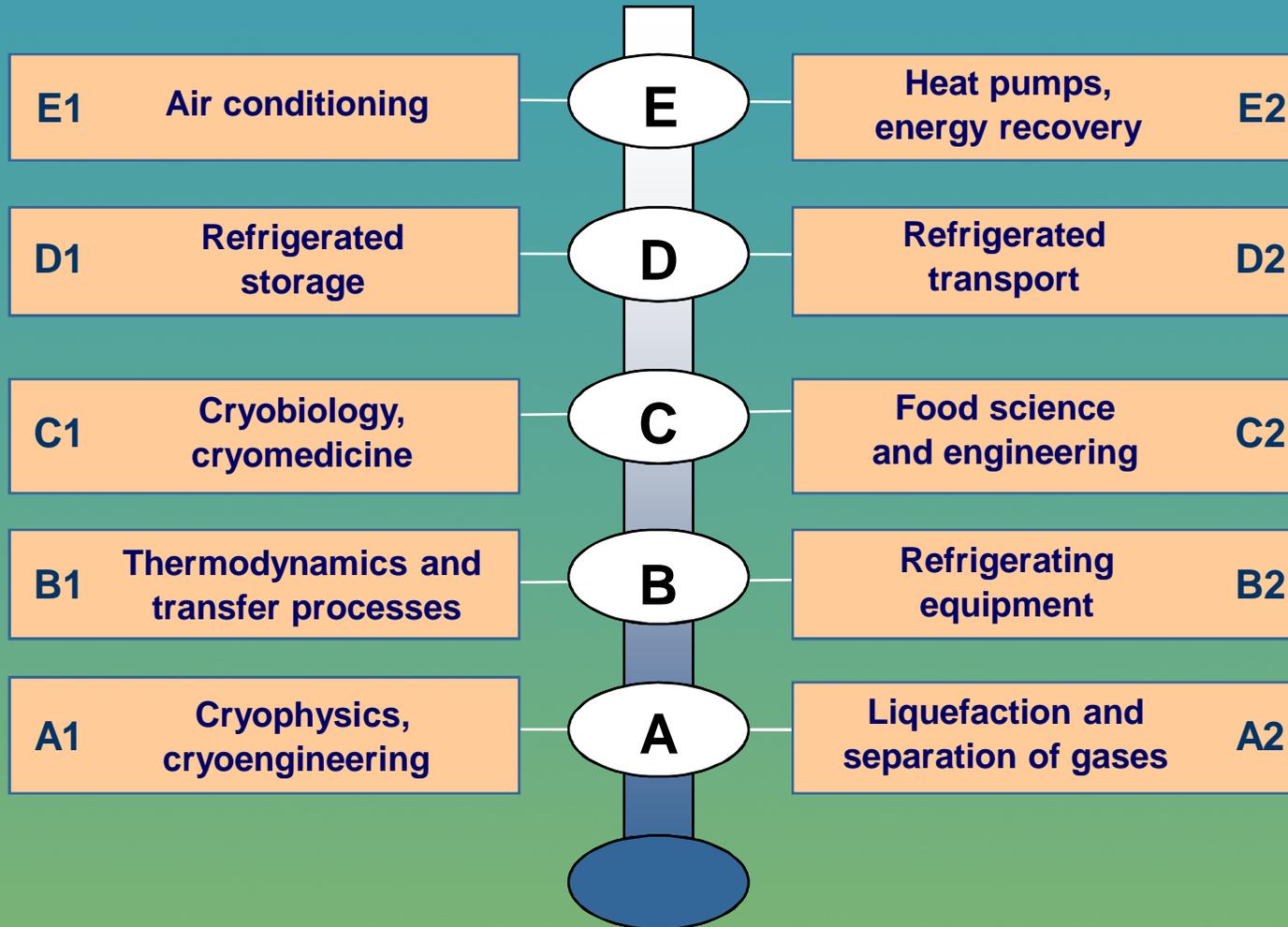


Statutory Bodies

- **General Conference**
 - ◆ Defines the IIR's overall policy
 - ◆ Meets every 4 years during the Congress
- **Executive Committee**
 - ◆ Handles the administrative and financial affairs of the IIR
 - ◆ Made up of one Delegate per Member Country
 - ◆ Meets once a year
- **Science and Technology Council**
 - ◆ Is responsible for scientific and technological activities
 - ◆ Meets once a year
- **Management Committee**
 - ◆ Meets twice a year



Science and Technology Council



Web Site – www.iifiir.org

The screenshot shows the homepage of the International Institute of Refrigeration (IIR). The header includes the IIR logo, the text "International Institute of Refrigeration" and "Refrigeration for Sustainable Development", and a language dropdown menu set to "English". A navigation bar contains links for "About us", "Membership", "Events", "News and Files", "Publications", "Information Resources", and "Fridoc Database".

The main content area is divided into several sections:

- Welcome!**: A introductory message stating the portal features high-performance tools for refrigeration and its applications. It lists key features: the Fridoc database (90,000 entries), an agenda of events, expertise and laboratory directories, and other services. It encourages users to register to use the tools.
- Presentation of the sections**: A section titled "The Events section" that presents IIR congresses and conferences, including IIR-co-sponsored events. It offers users the ability to check out future and past events, including proceedings, papers, and tables of contents. It also mentions that non-IIR refrigeration events of interest can be consulted.
- Bookshop**: A section displaying three books for sale:
 - "Properties of secondary working fluids (secondary refrigerants or coolants, heat transfer fluids) for indirect systems." by MELINDER A.
 - "1st IIR International Conference on sustainability and the cold chain."
 - "Guide to refrigerated transport." by HEAP R., (ed.)
- Fridoc database**: A section listing recent publications from the Fridoc database, such as "Sensitivity of TEWI estimate: leakage and energy for CO2 as refrigerant in commercial refrigeration" by ISLAM R., and "Refrigerated retail display cabinets" by RIGOT G.

On the right side of the page, there are several utility boxes:

- Search**: A search bar with a dropdown menu set to "Whole site".
- Private access**: A section for user authentication, including an "e-mail address" field and a password field with a "Subscribe to the portal" link.
- Your first visit?**: A section encouraging users to explore the features of the IIR's new website.
- Launching Offer**: A promotional section offering free downloads via Fridoc. It states "100 documents per month for members of the IIR" and "30 documents per month for registered users of the portal", with a note that the offer is valid until October 2011.

● 4000 visits / month

● Main columns

◆ Conferences

◆ Publications

◆ News

◆ Fridoc

◆ Useful links

◆ Technical files



Fridoc Database

The screenshot shows the homepage of the International Institute of Refrigeration (IIR) Fridoc Database. The header includes the IIR logo and navigation links such as 'About us', 'Membership', 'Events', 'News and Files', 'Publications', 'Information Resources', and 'Fridoc Database'. A search bar is located in the top right corner. The main content area is divided into several sections: 'Important!' with a registration notice, 'Launching offer' detailing document quotas for members and registered users, and 'What's in Fridoc?' which describes the database's scope and content. A sidebar on the right contains a search form with fields for 'Whole site', 'Private access', and 'e-mail address', along with a 'Subscribe to the portal' link and a 'How to use Fridoc' section.

- 92 000 entries
- 3000 keywords
- 50 000 authors
- Search
 - ◆ keywords
 - ◆ natural language

- **FREE ACCESS** to Fridoc for non-members
- **DOWNLOADS** with on-line payment
- **QUOTAS** of free downloads for members



The Refrigeration Portal

- Alerts on new articles replace the Bulletin
- Thematic alerts
- Reference documents
- Expertise Directory (for members only)
- Laboratory Directory (complete database for members only)
- On-line dictionary (for members only)
- Links to many other databases



Newsletter



Editorial



Little progress is being achieved through international negotiations concerning refrigerants, CO₂ emissions and assistance to developing countries. But the world is moving fast, particularly in the refrigeration field: new designs and new regulations and standardization projects are emerging here and there, energy prices are rising continually, and needs in

terms of refrigeration infrastructure are growing.

More than ever, it is important for researchers and industrial stakeholders to network, in particular within the framework of international conferences on various existing or future technologies. IIR and IIR-co-sponsored conferences are attracting more and more interest and greater numbers of participants.

the 10th Gustav Lorentzen Conference on Natural Refrigerants held in Delft, the Netherlands, in June; the Purdue conferences on Compressors (the 2nd in the series), on Refrigeration and Air conditioning (the 14th in the series) and on High-performance and Green buildings (the 2nd in the series) held in the USA in July; the 10th Conference on Phase-Change Materials and Surfaces held in Tokyo, Japan, in August; the 5th Conference on Cryogenics (Cryogenics 2012) held in Dresden, Germany, in September; the 4th Jordanian Conference on Refrigeration and Air conditioning held in Amman, Jordan, in September; and the 5th Conference on Magnetic Refrigeration Room Temperature held in Grenoble, France, also in September.

This array of conferences held over the past few months is impressive, and the diversity of the themes dealt with is every bit as impressive. All the papers are available online via the IIR's Fridoc database: www.iif.ir.org. Keep abreast of the latest developments in order to better predict future trends.

Didier Coulob
Director of the IIR

Les négociations internationales concernant les frigorigènes, les émissions de CO₂ ou l'aide aux pays en développement n'avancent guère. Mais le monde bouge, rapidement, notamment dans le domaine du froid, avec de nouvelles décisions ou de nouveaux projets à l'ordre du jour en matière réglementaire ou normative, avec un prix de l'énergie toujours élevé et des besoins d'infrastructure de froid croissants.

Plus que jamais, il est important que chercheurs et industriels communiquent, notamment dans le cadre de conférences internationales sur les différentes technologies disponibles ou à venir.

iir focus

The International Journal of Refrigeration (IJR)

In 1978 the International Institute of Refrigeration (IIR) launched a new international scientific journal, the IJR. At that time, the IIR was already over 70 years old. The first Editor-in-Chief, Prof. G. G. Haselden, University of Leeds, UK, mentioned in his first Editorial that "... Now, with the unanimous backing of its Scientific Council and Executive Committee, it is embarking on a new enterprise to bring new knowledge in the field of refrigeration much more quickly to a larger readership".

The first volume of the IJR consisted of 4 issues comprising 29 scientific articles in all. Today, we publish 8 issues with an average of 200 articles per year. The spirit, the concept and the aims of the Journal have not changed, but the size, worldwide distribution and the IJR's international reputation and scope have grown tremendously. The IJR is now the world's leading journal in the field of refrigeration, air conditioning and heat pump technology. The most innovative step in the IJR's history was to go online in 2006. All articles ever published in the IJR can be found and downloaded from the Web. We are observing an exponential increase in downloads of full-text IJR articles. In 2011, a level of over 100 downloads per day was reached.

Les conférences de l'IIF et celles que l'IIF patronne connaissent cette année un intérêt si vif que, avec les journaux et les revues :

10^e Conférence Gustav Lorentzen sur les frigorigènes naturels (Delft, Pays-Bas) en juin; conférences de Purdue (États-Unis) sur les compresseurs (2^e conférence), sur le froid et le conditionnement d'air (14^e conférence) et sur les immeubles hautement performants et écologiques (2^e conférence) en juillet; 5^e Conférence sur les Matériaux à changement de phase et les revues (Kobe, Japon) en août; 10^e Conférence sur la Cryogénie (Dresde, Allemagne) en septembre; 4^e Conférence jordanienne sur le Froid et le conditionnement d'air (Amman, Jordanie) en septembre; 5^e Conférence sur le Froid magnétique à température ambiante (Grenoble, France), en septembre. La liste des conférences de ces derniers mois est impressionnante, la variété des sujets abordés aussi. Retrouvez les communications qui y ont été présentées dans la base de données Fridoc de l'IIF (www.iif.ir.org) : tenez-vous au courant des derniers développements pour mieux anticiper les évolutions en cours.

Didier Coulob
Directeur de l'IIF



Fig. 1 shows the origin of accepted papers in 2011.

We received about one third from Asian and European countries, respectively. About 19% came from American countries, and an increasing number of accepted articles come from the Middle East (13% in 2011).

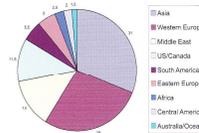


Fig. 1. The origin of accepted articles in 2011.

An indicator for the quality and international reputation of a scientific journal is the Clarivate Impact Factor (IF). Like other indicators, it continuously increased from a level of 0.5 in 2000 to 1.817 (© Thomson Reuters Journal Citation Reports 2012) for 2011. The IJR is now ranked 16th out of 121 journals in mechanical engineering.

Our readers like state-of-the-art articles. On the average, we publish one per issue. Each accepted one is rewarded by a fee of 500 €. Also, Special Issues on news within our scope of topics are very welcome by the community. At present, several are being prepared, and cover: Boiling and Condensation, Compressor Technology, Magnetic Refrigeration, and Solar Cooling.

The success of the Journal is closely related to the quality of our authors and reviewers. The best authors are rewarded every year by two 'Best Paper Awards'. Today, the IJR looks back on a positive development, and with the help of the IIR community, we, the Editorial Board (Hein Auracher, Keumnam Cho, Eckhard Groll, Jacques Galuppi, Tuan Pham, Akio Sato, Felix Ziegler), can expect ongoing success.

Corporate and individual members of the IIR are entitled to a free subscription to the paper IJR. Furthermore, IJR articles can be downloaded via the IIR's Fridoc database on its Web site, and members benefit from quotas of free downloads.

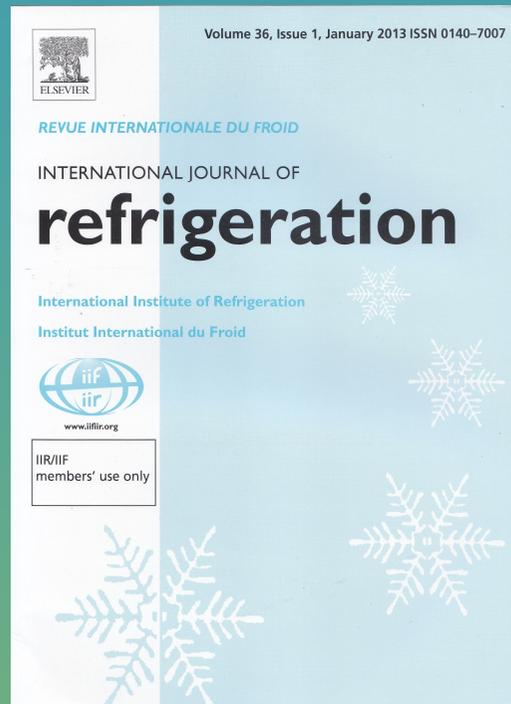
Hein Auracher, Editor-in-Chief

Sent to more than 2600 people



International Institute of Refrigeration

International Journal of Refrigeration



Impact factor: now 1.817!

16th out of 121 Journals in mechanical engineering

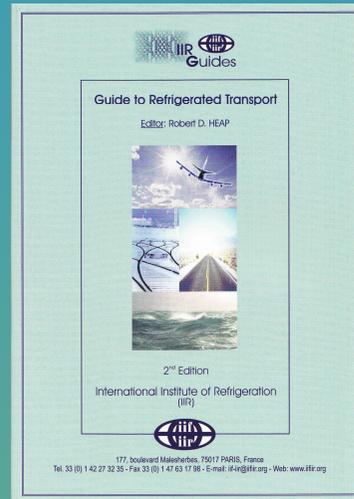
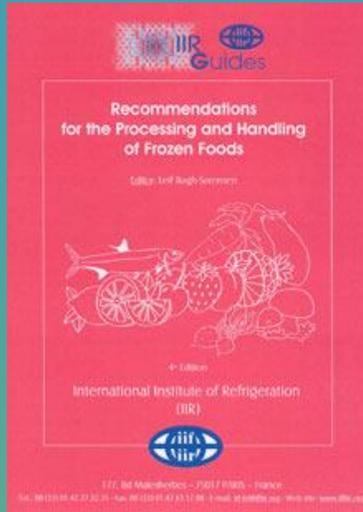
16th out of 52 Journals in thermodynamics

Possible to publish revised IIR conference papers in the IJR

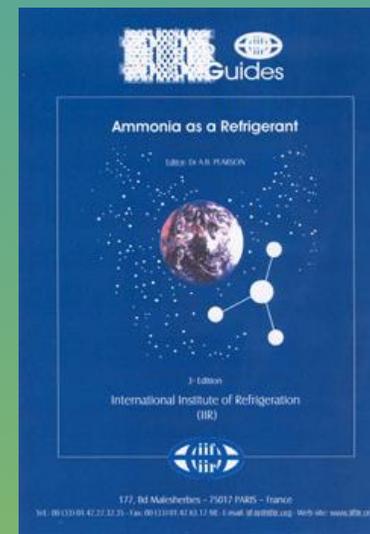
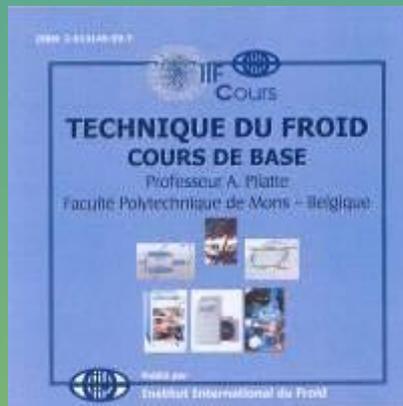


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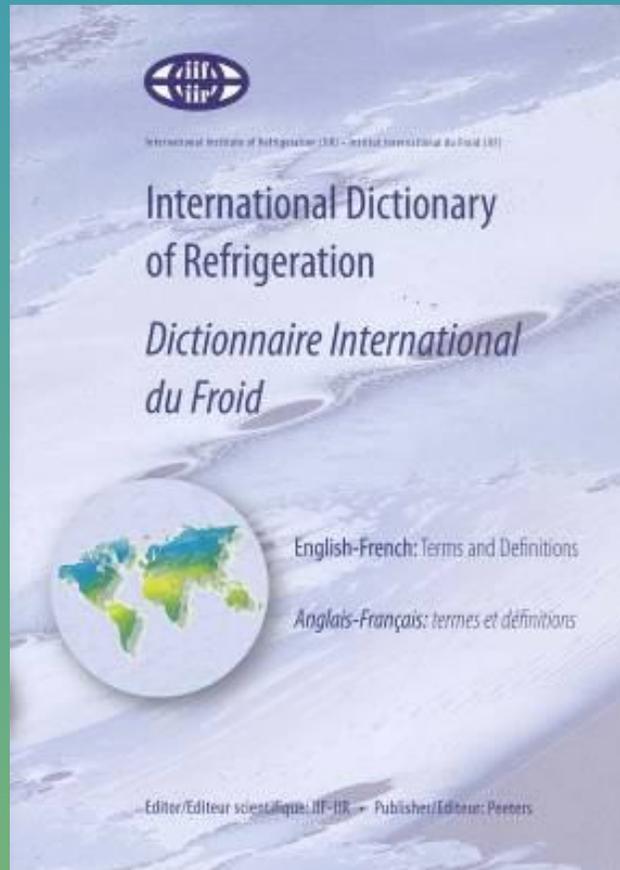
Books – Guides



- Technical books
- Brochures
- Diagrams
- Training courses
- Recommendations



International Dictionary of Refrigeration



- 4400 terms
- 1 English-French volume :
 - Terms et Definitions
- 3 English-French volumes with terms only in:
 - German
 - Chinese
 - Spanish
- Other languages (6):
 - Arabic
 - Italian
 - Japanese
 - Dutch
 - Norwegian
 - Russian
 - On line soon



Training Courses

- On-line
- Paper documents
- Organization of courses and seminars in developing countries



- Good Practice in Refrigeration
- Refrigeration and Preservation of Fruit and Vegetables
- Refrigeration and Preservation of Fish
- Refrigeration and the Environment
- Refrigeration Fundamentals
- Algeria, Burundi, Cameroon, Chad, Ivory Coast, Gabon, Guinea, Iran, Mali, Morocco, Niger.



Recommendations

- Reference documents for decision makers worldwide

- ◆ Informatory Notes

- Refrigeration technologies
- Refrigeration and food



- ◆ Statements prepared for international events

- Montreal Protocol on ozone depletion:
Last one: MOP24 (Geneva, Switzerland, 2012)
- Mitigation of Global Warming and Kyoto Protocol:
Last one: COP-18/CMP-8 (Doha, Qatar, 2012)
- Sustainable Development: Rome, CFS, 2010
- Food Safety: FAO / WHO Forum, 2002

- ◆ International Standards

- Code of Practice on Quick Frozen Foods
- ATP



Working Parties

Name	Chairman
WP Life Cycle Climate Performance Evaluation	Y. Hwang
WP Refrigerant Charge Reduction in Refrigerating Systems	J. Corberan
WP Cold Chain for Pharmaceutical Products	G. Cavalier
WP Phase-Change Materials and Ice Slurries	L. Fournaison
WP Preservation of Genetic Resources	F. Engelman
WP Refrigerant System Safety	L. Rolfsman
WP Data and Models for Refrigeration and Freezing Foods	B. Nicolai
WP Cold Chain in Warm Countries	N. K. Merzouk
WP Magnetic Cooling	P. Egolf
WP Mitigation of Direct Emissions of Greenhouse Gases in Refrigeration	P. G. Lundqvist
WP Energy Labelling in the Cold Chain	G. Cortella
SC Test Stations (Refrigerated Transport)	G. Johansson
SC Display Cabinets	S. Van der Sluis

Strategic Alliances



- IEA/HPP
- ASHRAE
- REHVA
- Transfrigoroute Int'l
- ECSLA
- DKV
- AIRAH
- KRAIA
- AICARR



International Organizations

- Close relationships and partnerships with
 - ◆ UNEP
 - ◆ UNFCCC
 - ◆ Montreal Protocol
 - ◆ FAO
 - ◆ Codex Alimentarius
 - ◆ UNIDO
 - ◆ WHO
 - ◆ World Bank
 - ◆ ICGFI
 - ◆ UNECE (ATP Agreement)



Conferences

➤ Already scheduled since the Congress in Prague:



2nd IIR International Conference on Sustainability and the Cold Chain

02/04/2013 - 04/04/2013

Paris, France

IIR Conference

ICCR2013 - 5th International Conference on Cryogenics and Refrigeration

06/04/2013 - 09/04/2013

Hangzhou, China

IIR-co-sponsored Conference



LNG 17 - 17th International Conference & Exhibition on Liquefied Natural Gas

16/04/2013 - 19/04/2013

Houston, United States

IIR-co-organized Conference



Ammonia Refrigeration Technology

09/05/2013 - 11/05/2013

Ohrid, Macedonia, The Former Yugoslav Republic of

IIR Conference



See our Web site! www.iifiir.org
International Institute of Refrigeration

.../...



CLIMA 2013 - 11th REHYA World Congress

16/06/2013 - 19/06/2013

Prague, Czech Republic

IIR-co-sponsored Conference



4th IIR International Conference on Thermophysical Properties and Transfer Processes of Refrigerants

17/06/2013 - 19/06/2013

Delft, Netherlands

IIR Conference



Compressors 2013 - 8th International Conference on Compressors and Coolants

02/09/2013 - 04/09/2013

Castá Papiernicka, Slovakia

IIR Conference

IIR Workshop on Cryoprocessing of Biopharmaceuticals and Biomaterials

04/09/2013 - 05/09/2013

Dresden, Germany

IIR Workshop



8th International Conference on Compressors and their Systems

09/09/2013 - 10/09/2013

London, United Kingdom

IIR-co-sponsored Conference



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2014 International Sorption Heat Pump Conference (ISHPC2014)

31/03/2014 - 03/04/2014

IIR-co-sponsored Conference

11th IIR-Gustav Lorentzen Conference on Natural Refrigerants - GL2014

31/08/2014 - 02/09/2014

Hangzhou, China

IIR Conference



ICR 2015 - 24th IIR International Congress of Refrigeration

31/08/2015 - 06/09/2015

Yokohama, Japan

IIR Congress

+ conferences on the cold chain, magnetic refrigeration, the thermophysical properties of refrigerants, ammonia, to be held in 2012-2013 will be announced soon.



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