

Scientific Committee

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Organizing Committee

IIR-IIF

Didier Coulomb, Susan Phalippou

AFF

Patrick Antoine, Maggy Knockaert

Cemafroid

Gérald Cavalier, Eric Devin, Vincent Moizan

Irstea (Formerly-Cemagref)

Graciela Alvarez, Laurence Fournaison, Onrawee Laguerre

Practical Information

DATES AND TIMING

Tuesday April 2, 2013 - 4:00 pm - 8:00 pm
Wednesday April 3, 2013 - 8:30 am - 6:00 pm
Thursday April 4, 2013 - 8:00 am - 4:30 pm

VENUE

The Conference will be held at the UIC (International Union of Railways) in spectacular surroundings with unbeatable views of the Eiffel Tower.

In the heart of Paris, practically on the Seine, this venue is close to 2 Metro stations (Champ de Mars-Tour Eiffel and Bir-Hakeim).

UIC - 16 rue Jean Rey -
75015 PARIS
www.uic.org



CONFERENCE LANGUAGE

English

EXHIBITION

Exhibitor stands will allow participants to discover the latest available offers on the market (equipment, services...)

GALA DINNER

The Gala Dinner will take place at the Restaurant 58, located on the 1st floor of the Eiffel Tower.

Register early as places are limited !



CONTACT

Vincent Moizan - contact@iccc2013.com

REGISTRATION

Available on : www.iccc2013.com

An event organized by



Cemafroid
L'expertise de la chaîne du froid



Association Française du Froid



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2nd IIR International Conference
on Sustainability and the Cold Chain

PARIS / April 2-4, 2013

**PRELIMINARY PROGRAMME
AND FINAL INVITATION**



www.iccc2013.com



An event organized by French Refrigeration Specialists:



To better reflect its missions,
Cemagref becomes IRSTEA

Tuesday April 2, 2013

- 2:00 - 5:00 PM FRISBEE WORKSHOP
 2:00 - 5:00 PM CERTE MEETING
 5:00 - 6:00 PM IIR COMMISSIONS AND WORKING PARTIES
 6:00 - 8:00 PM WELCOME COCKTAIL

Wednesday April 3, 2013

- 8:30 - 9:00 AM BREAKFAST RECEPTION
 9:00 - 9:30 AM OPENING SPEECH
 Stéphane Le Foll - French Minister of Agriculture
 Didier Coulomb - IIR Director
 Jean-Marc Bournigal - Irstea President
 9:30 - 10:00 AM PLENARY SESSION 1
 Cold Chain Challenges in India
 Pawanexh Kohli - NCCD
 10:00 - 10:30 AM PLENARY SESSION 2
 Cold Chain for Health Products
 Jean-Pierre Paccioni - GSK
 10:30 - 11:00 AM BREAK
 11:00 AM - 1:00 PM SESSIONS 1, 2, 3
 Modelling and predictive tools - Product Quality
 Pharmaceutical cold chain - Pharmacy
 Refrigerants in the future - CO2

- 1:00 - 2:00 PM LUNCH
 2:00 - 4:00 PM SESSIONS 4, 5, 6
 Food quality and food safety - Cold chain
 Commercial refrigeration - Display cabinet
 Energy efficiency in the cold chain - Cold store
 4:00 - 4:30 PM BREAK
 4:30 - 6:15 PM SESSIONS 7, 8, 9
 Storage, transportation and logistics - Transport
 Food quality and food safety - Domestic Refrigeration
 Energy efficiency in the cold chain - Energy performance and consumer behavior
 6:15 - 8:00 PM STUDENT RECEPTION AND NETWORKING EVENT
 8:00 - 12:00 PM GALA DINNER - EIFFEL TOWER

Thursday April 4, 2013

- 8:00 - 8:30 AM BREAKFAST RECEPTION
 8:30 - 9:00 AM PLENARY SESSION 3
 Current and alternative refrigerants
 Pega Hrnjak - CTS
 9:00 - 10:30 AM SESSIONS 10, 11, 12
 Storage, transportation and Logistics - Temperature Sensors
 Food quality and food safety - Crystallization
 Refrigerants and refrigeration in the future -

- Natural Refrigerants
 10:45 - 11:15 AM BREAK
 11:15 AM - 1:00 PM SESSIONS 13, 14, 15
 Food quality and food safety - Food refrigeration
 Commercial refrigeration - Energy consumption in supermarket
 Carbon footprinting - Environmental approach
 1:00 - 2:00 PM LUNCH
 2:00 - 3:50 PM SESSIONS 16, 17, 18
 Storage, transportation and logistics - Transport
 Storage, transportation and logistics - Solar refrigeration
 Innovative technologies - Innovation
 3:50 - 4:30 PM CLOSING CEREMONY
 Patrick Antoine - AFF President
 Gérard Cavalier - Cemafrroid CEO
 Didier Coulomb - IIR Director
 Laurence Fournaison - Irstea Unit Manager
 Conference Awards
 Presentation of ICCC New Zealand 2014
 Presentation of ICR Yokohama 2015
 5:00 - 6:00 PM IIR COMMISSIONS AND WORKING PARTIES

EDITORIAL

The global population will reach over 9 billion by 2050. To feed the world and protect health on a global scale, the cold chain must be developed in order to save harvests, avoid waste and protect public health. This development must be sustainable, and efforts made to reduce the impact of refrigeration on the environment should be pursued.

As the only independent intergovernmental organization working in the field of refrigeration, the International Institute of Refrigeration (IIR) seeks to provide solutions enabling sharing of knowledge of refrigeration. One of these solutions is to organize several times a year conferences related to these global issues.

After the success of the first edition in Cambridge, UK, in 2010, the IIR is organizing, with French cold chain specialists (AFF, Cemafrroid and Irstea), the 2nd International Conference on Sustainability and the Cold Chain (ICCC) in Paris, on April 2-4, 2013. More than 90 scientific papers and 3 plenary sessions presented by the most eminent world refrigeration specialists are scheduled.

In the heart of Paris, practically on the Seine, in spectacular surroundings with unbeatable views of the Eiffel Tower, the 2nd ICCC will provide an opportunity to discover the results of the latest work on the cold chain with the objective of progressing in the fields of food safety and security, quality of life and health, while reducing the impact of refrigeration on global warming.

We look forward to seeing you in Paris!

Didier Coulomb, IIR Director

The proceedings will be available after the conference, and individual papers will be downloadable via the IIR's Fridoc database: www.iifir.org.

Plenary Speakers

Pawanexh Kohli



Captain Pawanexh Kohli is a business leader with a special interest in cold chain management. After having been a mariner for 26 years, he was Master and Captain of one of the world's largest refrigerated ocean-going carriers. In December 2010, he was acknowledged the «Cold Chain Personality of the year» by an expert panel from KPMG at an award summit hosted by KPMG-Supply Chain Leadership Council. He is helping the Govt. of India incubate the National Centre for Cold-chain Development (NCCD) as their founding Chief Advisor.

Jean-Pierre Paccioni



After having been a researcher in the field of synthesis of natural substances at the Institute of Chemistry (CNRS) from 1974 until 1977, Jean-Pierre Paccioni joined Merck Sharp & Dohme-Chibret in 1978, beginning a successful career in the industry. Between 1984 and 2002, he worked for NOVO Nordisk, New England Nuclear, DuPont de Nemours and Pharmacia SAS. In 2002, he joined GlaxoSmithKline (GSK) as Responsible Pharmacist and Director of Pharmaceutical Affairs, a position he still holds today. Jean-Pierre Paccioni is also Chairman of Section B of the French Order of Pharmacists.

Pega Hrnjak



Professor Hrnjak is Co-Director of the Air Conditioning and Refrigeration Center (ACRC) at the University of Illinois at Urbana Champaign. He is also a founder and president of Creative Thermal Solutions (CTS), a R&D company which bridges ACRC activities (pre-competitive research in function of education) and industry. He is active member or fellow of ASME, ASHRAE, IIR, SAE, IIAI and is editor or member of the boards of several professional scientific journals. He is recipient of Gustav Lorentzen, J&E Hall and Rittinger medals among other awards.

Who should come?

- Senior representatives of engineering, marketing and product development
- Innovation leaders
- Professors
- Researchers
- Teachers
- Students
- Equipment designers
- Professional engineers
- Production managers
- Policy makers ...

Conference Themes

- Design innovation
- Storage, transportation and logistics
- Modelling and predictive tools
- Food quality and food safety
- Pharmaceutical cold chain
- Refrigerants in the future
- Innovative technologies
- Carbon footprinting
- Energy efficiency
- Renewable energies...