Tuesday 2nd April 2013

Welcome and Recording Participants

FRISBEE WORKSHOP & CERTE MEETING

IIR COMMISSIONS AND WORKING PARTIES

Welcome Cocktail and Recording Participants

Wednesday 3rd April 2013

Welcome and Recording Participants - Welcome Coffee

Opening Speech
Stéphane Le Foll - Ministre de l’Agriculture
Didier Coulomb - IIR Director
Jean-Marc Boumingal - Istra President

Plenary session n° 1
Cold Chain Challenges in India
Pawansh Kohli - NCCD Chief Advisor

Plenary session n° 2
Cold Chain for Health Products - Jean-Pierre Paccioni - President of Section 8 of the French Order of Pharmacists.

BREAK

Modelling and predictive tools
Pharmaceutical cold chain
Refrigerants and refrigeration in the future

Sunny George Gwianpa
A quality energy and experimental assessment tool for the European cold chain

Gilles Labranque
Refrigerated vehicle or refrigerated packaging - How to choose for the transport of health products?

Silvia Minetto
Performance assessment of an innovative R744 refrigeration system with multiple evaporators operating in flooded conditions

Edward Herndon - Simulation vs. Experimental Results: Using VR in LT freezers

Marie Bonod - Cold chambers certification for pharmacies

Richard Laxton - Transportation of dursins

FRIGIBIRME: Frozen products temperature stabilisation by phase change material

André Derens - Experimental investigation of a R744 two-stage compression cycle for transport refrigeration

Moderator: Léonard Heidinger

LUNCH

Food quality and food safety
Commercial refrigeration
Energy efficiency in the cold chain
Cold store

Alexander Pachai
From cradle to table - Cooling and freezing of food

Sergio Marinetti
Numerical and experimental analysis of the airflow distribution in the cooling duct of a display cabinet

Alan Foster
FREELY available cold store energy models

Patrice Teyssy - Development and Application of the FreeFlow Cold Food Database as a Tool for Cold Chain Management

Summer Ham - DFD assisted design of closed display cabinets

M. Sittain - Achieving energy efficiency in small grocery stores in the sub-Saharan archipelago

Andrew East - Understanding variability to improve product losses in horticultural supply chains

Alan Foster - A novel joint thermosiphon defrost system for a frozen retail display cabinet

K. I. Chai - Development of Energy Saving Cold Storage Warehouse Using Thermosiphon and Natural Air Defrost

Bruce Beach - How the cold chain impacts the shelf life of a ready-to-eat yogurt target market in a developing country?

Amir Karampour - ENERGY STORAGE IN FREEZER CABINETS USING PHASE CHANGE MATERIALS

Zhengta Hu - Energy Efficient Technologies and Saving Potentials for Cold Rooms: Case Study

Stefan Bayer - Impact of forced draft cold chain variability on safety by sensitivity analysis

Joey Mchungu - Impact of environmental conditions on the performance of open multideck display case experiments

Formly George Swataye - Multidisciplinary optimization of storage temperature profiles of apples to minimize energy use

BREAK

Mohammed Youbi - Idrissi
Multi-temperature indirect cryogenic units: Qualification tests and analysis

Tim Brown
The potential for saving food waste by freezing food at home

Judith Evans
Cold store energy performance

Mohammed Youbi - Idrissi
Refrigeration system powered by the Truck engine - Benefits of new electrical architectures

Tim Brown - The potential for saving food waste by lowering home refrigeration temperatures

Judith Evans - Improving the energy performance of cold stores

Bhavin Shah - Mathematical Modelling of an aerosolised indoor multi-temperature transport refrigeration system

Rahul Katar - Modelling of direct refrigeration: energy consumption under real life conditions in Europe

Baldev Singh - Modelling of direct refrigeration: energy consumption under real life conditions in India

Mohammed Youbi - Idrissi - La perception des effets des technologies de froid sur la qualité organoleptique et nutritionnelle des aliments

Francisco Gonzalez - Case studies on the potential of cooling technologies for reducing food losses in developing countries

Krishnendu Kumar - Laying the foundations of energy efficiency in cold stores

Tim Brown - A low carbon cold chain for the developing world

V. Surer - Numerical investigation of heat and mass transfer in a ceiling‐based ventilated refrigerated cavity

Gerard Defrost - Quality assurance for cold chain Refrigeration: European approach

Dennis Liubak - Household refrigerators and freezers with high thermal inertia

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Mohanad Medag - The perception of the effects of the technologies of cold on the quality organoleptic and nutritional properties of foods

Student Event - Student reception and networking event

Gala Dinner
Restaurant 58 - 1st floor of the Eiffel Tower

Register on:
www.iccc2013.com/registration.html
## Thursday 4th April 2013

### Welcome Coffee

### Plenary session n° 3

#### Current and alternatives refrigerants - Pega Hrnjak - ACRC Co-director - CTS President

### Storage, transportation and logistics

**Temperature Sensors**

- Maarten Hertog  
  From sensor output to improved product quality

**Food quality and food safety**

- Alain Lebail  
  Freezing of pork meat under static electric field; Impact on ice crystal size and structure

**Refrigerants and refrigeration in the future**

- G. P. Montagner  
  A study on CO2 cycle architectures for light commercial refrigeration systems

- Mariaessa Garnaglia  
  - Monitoring and Optimization of the Churn of Chilled and Frozen Food Products with TTI Smart Labels

- Bostjan Hoyns  
  - Short sensor technologies for cold chain quality monitoring

- Timo Sasaki  
  - Evaluation of the effect of supercooling applied before ice nucleation during food freezing

- Erik Dewi  
  - Compliance of temperature measurements with the requirements of the cold chain: Meteo: Performance, uncertainties and required permits and errors

**Break**

### Food quality and food safety

**Food refrigeration**

- Thij DeFrayer  
  Intercomparison of package designs for cooking of citrus fruits by experimental and numerical analysis

**Commercial refrigeration**

- Ina Colombo  
  Energy modelling of a supermarket using integrated environmental solutions (IES) software

**Carbon footprinting**

- Endre Indegard  
  Energy- and Carbon Footprint Reduction in Industrial Production of Hot Water in Abbot by use of Surplus Heat and Heat Pump Systems

- Justin O’Sullivan  
  Performance of the forced-air cooling process of fruit packed in polyethylene bags as a function of pallet orientation

- Emily Kuffi  
  Assessment of Fast Chilling Methods for Beef Cuts and Cooling Systems for Higher Energy Efficiency

- Andrew Gaff  
  Investigating asymmetrical packaging as a technical to reduce heterogeneity during precooling of fresh produce

- Krista Lassaus  
  Failure of refrigeration systems in supermarkets

### LUNCH

### Storage, transportation and logistics

**Transport**

- Don Cliland  
  Options for control of moisture in loading docks for refrigerated facilities

**Solar refrigeration**

- Gonzalo Brites  
  Sustainable refrigeration based on the solar adsorption cycle

**Innovation**

- S. M. Nascimento  
  - Experimental quantitative evaluation of thermal performance in refrigerated displays case with variation of the thickness of the air curtain...

- Richard Lawton  
  - Coal-based refrigerant in food transportation use containers

- Massar Ladi  
  - Study of a new solar refrigerator powered by PV-panels

- Dr. Christiaan van Wilgen  
  - Benefits of using solar thermal refrigeration systems in supercritical CO2 cooling applications

- Paolo B. Abad  
  - Parallel cooling of the Microcompressor technology

- Paolo Bassi  
  - In-field evaluation of the overall absorption coefficient of the internal surface of the insulated box in a refrigerated vehicle

- Mohamed Amanthan  
  - Possibility of using silica gel-water absorption chiller in the cold chain

- Dha Suzuki  
  - Improvement of food cooling utilizing flow turbulence in propeller fans

### Closing Speech - Conference Awards - Presentation of ICC New Zealand 2014 - Presentation of ICR Yokohama 2015

End of the conference 16:30

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