

Workshop Title: ELICiT EU Project

Participants:

	Name	Chair/Speaker	Affiliation
1	Alessandro Pastore	Chair	CAMFRIDGE
2	Didier Coulomb	Chair	IIR
3	Thomas Michineau	Speaker	CEMAFROID
4	Thomas Suquet	Speaker	CEMAFROID
5	Marcel van Beek	Speaker	Re/gent



Abstract:

• **Objective**

The ICR2015 is the right opportunity to disseminate the progress and outcomes of the ELICiT research project from the technical partners to the conference participants particularly interested to magnetic refrigeration. The Elicit website will be promoted and communications supports will be distributed to encourage participate to register to the E-News and social media to be kept updated on the project progress. Also, specialists in the field will be encouraged to join the SWG industry formed to oversight the EU MR Regulation recommendations evolved by the ELICiT project.

• **Background**

ELICiT “Environmentally Low Impact Cooling Technology” is a European Union Seventh Framework Programme for Research (FP7). The 3 year research project, begun in January 2014, will help efficient gas - free magnetic cooling move from a laboratory scale technology to a high - volume marketable product. Small and medium enterprises (SMEs) are currently developing this technology to eventually be used by global appliance manufacturers.

The ELICiT Project focuses on the application of magnetic cooling technology to domestic refrigeration appliances. It aims to:

- enhance collaboration between SMEs and global appliance manufacturers,
- draw on expertise found in universities, research centres,
- collaborate with the only independent intergovernmental science and technology based organization in the refrigeration field – the International Institute of Refrigeration (IIR).

The ELICiT Project: Objectives

The main objective of the ELICiT Project is to consider the magnetic cooling solution in its entirety, and to optimize the complete magnetic cooling solution as an integrated appliance.

To achieve this the project focuses on 4 key aspects:

- Life Cycle Optimization – to provide production, cost and environmental data to aid system optimization and inform decision making

- System Optimization - to evolve a solution that is production scalable, efficient, cost - effective and environmentally friendly
- Benchmarked Validation – to establish the energy efficiency credentials of the technology
- Regulations and Standards – to ensure the technology complies with existing regulations, and to establish how the new technology will fit into standards

• Presentations

Duration	Presentation Title	By
5 mins	Presentation of the ELICiT project by the chairman	Didier Coulomb -IIR
20 mins	Second generation magnetic cooling engine: where are we?	Alessandro Pastore - Cambridge
20 mins	Refrigerator Heat Exchangers: Designing for minimum temperature lift (< 5 K)	Marcel van Beek - Re-gent
20 mins	Towards a magnetic appliance testing standard	Thomas Michineau, Thomas Suquet - Cemafroid
20 mins	Answers/Questions	Didier Coulomb - IIR

Outputs:

The workshop attendees will understand the objectives and progress of this funded EU projects and will encourage joining the magnetic refrigeration community. Great synergies and future collaborations and new contacts are expected.

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