

**Workshop Title : SIRACH**

**Participants :**

	Name	Chair/Speaker	Affiliation
1	Professor Graeme Maidment	Chair	LSBU (London South Bank University)
2	Dr Andy Pearson	Speaker	Star Refrigeration
3	Professor Pega Hrnjak	Speaker	University of Illinois
4	To be decided	Speaker	
5	Carole Bond	Facilitator	Carbon Data Resources



**Abstract :**

**- Objective**

The objective of the proposed workshop will be to:

1. Provide attendees with a thought provoking and informative workshop on technology innovation and application.
2. Share the similarities and differences in sustainable market transitions between Europe, the US and Japan (culturally as well as technically; where are they now/where they started from, what are the key barriers/enablers to progress to a more innovative low carbon future?)
3. Explore opportunities for joint 'thinking' and working together.
4. Expand the SIRACH network and increase international membership.

**- Background**

SIRACH (Sustainable Innovation in Refrigeration Air Conditioning and Heat) is a networking organisation for promoting new technology in refrigeration, air conditioning and heat pumps - increasing the flow of information between those with problems to solve and those with the ideas to solve them.

SIRACH is part of i-STUTE - the Interdisciplinary centre for Storage, Transformation and Upgrading of Thermal Energy. i-STUTE is funded by the UK Research Councils' Energy Programme to develop technologies to reduce energy consumption and deliver cost-effective heating and cooling which will help the UK achieve its target of a reduction in greenhouse gas emissions of 80% by 2050. The work brings together cutting-edge engineering advances with economic, behavioral and policy expertise to produce solutions that are both technically excellent but also appealing to



business, end-users, manufacturers and installers.

At least 4 SIRACH meetings are held each year in the UK and SIRACH has a vibrant membership of over 250 individuals. Membership of the network is free.

The main focus in applying to run a workshop at the IRC2015 is to expand the SIRACH network and publicise it outside of Europe. It is hoped that participants in the workshop can learn from each other and become more aware of how innovation is tackled and driven in different parts of the World.

#### **- Outline of workshop**

Innovation is often approached differently. To date SIRACH has concentrated on innovation in the UK and Europe. However, the ways in which innovative projects are carried out and developed can vary.

The aim of the workshop is to compare how innovation is approached in the UK, Japan and the USA, to compare the differences and similarities and understand the drivers for success.

The workshop will begin with a short introduction to SIRACH and its aims. The presentation will cover why do we need to move to a more innovative low carbon future and how the refrigeration sector can play a part.

Short (15 minute) presentations will follow covering innovation in the UK and Europe, the USA and Japan. Within each presentation the speakers will be asked to present:

- Do you see your area of the World as innovative?
- What do you see as the main drivers for innovation?
- What environment nurtures innovation and how is it created?
- What interventions/drivers (e.g. subsidies, support) are there that help innovative products succeed? Do they work?
- What role does culture play in innovation?
- Provide one example of great innovation and why it succeeded and one example of where innovation failed and why.

At the end of each presentation there will be a short 5 minute discussion on whether the workshop attendees agree with the points raised. At this time any new points can be added.

After the 3 presentations a facilitated networking session (30 minutes) will be held to discuss and compare the approaches to innovation. The facilitator will then draw together the conclusions and summarise the differences and similarities that exist between different regions.



**- Agenda:**

<b>Time</b>	<b>Title</b>	<b>Presenter*</b>
10 minutes	Introduction to SIRACH	Professor Graeme Maidment
15 minutes	Innovation in Europe	Dr Andy Pearson
5 minutes	Facilitated discussion	Carole Bond
15 minutes	Innovation in USA	Professor Pega Hrnjak
5 minutes	Facilitated discussion	Carole Bond
15 minutes	Innovation in Japan	To be decided
5 minutes	Facilitated discussion	Carole Bond
30 minutes	Facilitation session and final summing up	Carole Bond/ Professor Graeme Maidment
<b>100 minutes</b>		<i>* Please note that presenters have not yet been formally invited.</i>

**- Outputs from workshop**

Attendees will have the opportunity to come away from the workshop with ideas on how to innovate and succeed. It is hoped that new contacts will be made between attendees and that successful innovation ideas can promote greater understanding of how innovative ideas succeed.

**Contact information :**

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