

# 21st PROCESS INTENSIFICATION NETWORK MEETING

23 May, 2013. The Beehive, Newcastle University.

## PROVISIONAL AGENDA

**09.30 – 10.15 Registration & Coffee**

**10.15 Welcome & Introduction**

*Chairman for the Morning: Prof. Adam Harvey*

### **Technical Presentations**

10.15 – 10.45 Overview of meso oscillatory baffled reactors. Prof. Adam Harvey, Newcastle University

10.45 – 11.15 Fundamentals of micro-structured fluidised bed reactors. Ms Nhi Dang, F. Gallucci and M. van Sint Annaland, TU Eindhoven

11.15 – 11.45 Brewing and distilling intensification. Dr. Alan Harper, Heriot-Watt University.

*Short Break.*

12.00 – 12.30 Diffusion Bonded Compact Heat Exchangers - Compact Reactors. Renaud LePierres, Heatric Ltd., Dorset.

12.30 – 13.00 Compact pipe connectors for the use in heat exchangers and industrial processes. John Cunningham, Vector Technology Group.

**13.00 – 14.00 Networking, Exhibitions/Posters & Buffet Lunch**

*Chairman for the Afternoon: TBA*

### **Technical Presentations (Continued):**

14.00 - 14.30 Process Analysis of Intensified Absorber for CO<sub>2</sub> Capture through Modelling and Simulation. Atuman S. Joel, Meihong Wang, Colin Ramshaw, University of Hull.

14.30 – 15.00 Process intensification of wastewater treatment: the photocatalytic and immobilised enzyme spinning disc reactors. Dr. Darrell Patterson, Bath University.

15.30 – 16.00 Processing in compact units. Asit Barchha, Compact GTL.

16.00 – 16.30 Micro-structured membrane reactors for water gas shift reaction. Arash Helmi, F. Gallucci, and M. van Sint Annaland, TU Eindhoven.

**16.30 – 17.00 Impromptu Presentations**

*(See Reply Form) but including:*

Making Carbon Capture feasible: Development of a circulating fluidized bed with microwave regeneration. Theo Chronopoulos, Heriot-Watt University

Solar-driven chemical reactions with PCMs - David Reay and Ahmad Mustaffar, Newcastle University

**16.30 et seq. Optional Lab Visit**