Venue and Contact

Design @ Eng 5th Floor, School of Mechanical and Manufacturing Engineering The University of New South Wales Gate 14, Barker Street Kensington, Sydney – Australia

The workshop is free of charge.

RSVP: Email Dr Suphunnika Ibbotson at <u>suphunnika@unsw.edu.au</u>, your name, affiliated organization and any dietary requirements by Monday June 6th 2011.





Joint German-Australian Research Group Sustainable Manufacturing and Life Cycle Management Technische Universität Braunschweig - The University of New South Wales, Sydney

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The University of New South Wales School of Mechanical and Manufacturing Engineering

Energy and Resource Efficiency

Workshop

8 June 2011

in Manufacturing

http://www.sustainable-manufacturing.com

Background

Manufacturing is the transformation of inputs like material and energy into tangible outputs in terms of products. Thus, it is a value consuming and creating process at the same time.

Economic (e.g. rising prices for energy and resources, potential lack of strategic resources) and environmental (e.g. connected green house gas emissions) drivers are more and more forcing manufacturing companies to consciously consider their energy and resource flows.

The Joint German-Australian Research Group is a synergetic cooperation of the Life Cycle Engineering & Management Research Group at the University of New South Wales (UNSW) and the Product- and Life-Cycle-Management Research Group from Technische Universität Braunschweig in Germany. The collaborative research group aims at developing appropriate concepts to encounter global challenges in the context of Sustainable Manufacturing and Life Cycle Management.

Based on the work of the Joint German Australian Research Group, this workshop aims at giving stakeholders an overview of the latest development around the world in relation to energy and resource efficiency in manufacturing.

We look forward to welcoming you to our workshop!

Mr. Hanham

Sami Kara

Christoph Herrmann

Directors of Joint German-Australian Research Group

Agenda

9:30am	Registration and morning Tea
10:00am	Welcome address TBA
10:10am	Energy and Resource Efficiency in Manufacturing – the Australian Perspective
	A/Prof. S. Kara, UNSW, Sydney
10:30am	Energy and Resource Efficiency in Manufacturing – the German Perspective
	A/Prof. C. Herrmann, IWF TU Braunschweig
10:50am	Life Cycle Assessment as a Tool Towards Sustainability in Manufacturing
	Dr. T. Dettmer, IWF TU Braunschweig
11:10am	Embodied Energy in Global Supply Chains Dr. S. Ibbotson , UNSW, Sydney
11:30am	A systematic Approach Towards Energy Efficiency in
	Manufacturing S. Thiede, IWF TU Braunschweig
11:50am	An Industrial Case Study on Energy and Water Efficiency in Manufacturing
	B. Kornfeld, Baxter Healthcare
12:10pm	Discussion
12:30pm	Light lunch will be served.