interdisciplinary centre for Storage, Transformation and Upgrading of Thermal Energy

Bob Critoph
Personal Introduction

Bob Critoph
University of Warwick

Worked on adsorption cycles for nearly 30 years

Director of the i-STUTE

WP 4 Theme leader:

- Compact chemical heat store
- Compact latent heat energy storage
- Advanced electric heat pump
- Next generation gas/heat powered heat pump

Example of a previous project:
Just keep smiling until he takes the picture

Can you smell ammonia?

CALEBRE – Domestic Gas Fired Heat Pump
The future?

- Split system fits into standard wall-mounted boiler
- Fitted by plumber
- 3-year payback
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Angeles M. Rivero Pacho
Personal Introduction
- Background

Angeles M. Rivero Pacho,
PhD student at the University of Warwick

MEng in Industrial Engineering
Valencia, Spain

MSc Design of Rotating Machines
Cranfield, UK
Personal Introduction
- Current work

PhD topic: Development of a solid sorption
heat pump (active carbon and ammonia)
- Cycle simulation
- Thermal conductivity tests
- Heat pump testing
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Transformation and
Upgrading of Thermal
Energy

Steven J. Metcalf
Personal Introduction
- Background

Steve J. Metcalf,
Research Assistant at the University of Warwick

MEng in Mechanical Engineering
PhD in solid sorption heat pumps
Research Assistant (5 years experience)
University of Warwick, UK
Thank you!