

New MATERIALS / NEW SENSORS & TRANSFORMATIVE PROCESSES

Chairmen: Zhijun Tan & Mayiwa Oyintona. 31 Aug 2016

1) NEW MATERIALS

SUSTAINABLE CONSTRUCTION MATERIALS
AFFORDABLE — DURABLE — SOCIALLY ACCEPTABLE

THERMAL STORE

NEW CANDIDATE MATERIALS FOR HEAT STORAGE —
Phase Change material (PCM)

MATERIALS FOR BATTERIES

Longer life, affordable & sustainable

POSSIBLE RESEARCH OUTPUT

PILOT / DEMONSTRATION PROJECTS

2) CONTROL SYSTEMS

- REAL SMART & EASY TO USE CONTROLS FOR BUILDINGS
- ARTIFICIAL NEURAL NETWORKS THAT LEARN USERS BEHAVIOUR

3) COLLABORATION BETWEEN DIFFERENT DISCIPLINES

e.g. — Construction material & Energy storage materials
one's output is another's input and vice versa
This can improve system efficiency $1 + 1 = 3$

Challenges and Issues.

1. How to move on?

A lot of chances for future collaborations
joint publications and projects applications are possible.
focusing on bioenergy, biomass utilization.

2. challenges and issues

feedstocks availability
technology and products stability.

3

Attendees.

Xiaolei Zhang

Chunfei Wu

Xin Tu

Hossein Borji

Xiaoyu Yan

Anh Phan

BEATRICE SMYTH

MUTIWA OTINLOLA

Zhang

Wu

Tu

Borji

Yan

Anh Phan

Beatrice Smyth

Mutiwa