

Name: Yeo Kok Chuan Bernard

Education:

Bachelor of Engineering (Honours), National University of Singapore, Singapore
1997-2001

Masters of Engineering Candidate 2001-

Email:

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Research Experience:

2000-2001 Development of air collectors for drying applications

Research Area:

Computational Fluid Dynamics, Phase Change Materials, Energy Storage

Research Project (for Masters in NUS):

Title: Energy Storage using Phase Change Materials

Started : June 2001 Expected date of completion: June 2003

Summary of Project Objectives:

- 1) To investigate into the cyclic melting and freezing behaviour of paraffin wax, myristic acid and a mixture of 50% paraffin wax – 50% myristic acid.
- 2) To visualize the velocity, temperature and liquid fraction fields using CFD software to explain phenomenon observed.
- 3) To investigate into the cyclic (periodic) steady state premonstration discovered.

Publications:

- 1) Phase Change Energy Storage System: An Analysis of Cyclic Melting and Freezing, ISES Solar World Congress, Göteborg, Sweden, 2003