

RESUME

PRASANTA KUMAR DEY

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Explosive Boiling Project
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EXPERIENCE:

- March 2004- **Research Engineer**, Explosive Boiling Project, National University of Singapore to date
Comprehensive experimental and simulation study on explosive vaporization process; Development of Micro pump and micro devices for potential applications in industrial and bio-engineering fields.
- Dec. 2001- **Research Scholar**, Thermodynamics Division, National University of Singapore.
Jan. 2004
Designed and Developed a Single-effect Submerged Vertical Tube Desalination System utilizing waste heat and conducted performance study of the system with different evaporator designs and operating conditions. Developed a simulation program in Visual FORTRAN language to predict the performance of the system on fresh water production. The independent research work includes design, selection and rating of an effective two-phase heat exchanger for desalination application.
- June 2000- **Lecturer**, Institute of Appropriate Technology, Bangladesh University of
Dec. 2001 Engineering & Technology (BUET), Dhaka-1000, Bangladesh.
Facilitated research on Reverse Engineering and Entrepreneurship, Coordinator of the Reverse Engineering Training Workshop; Involved in the research team of the Feasibility study of Natural gas export from Bangladesh; Taught Courses on Technology Management.
- January **Graduate Tutor**, Thermodynamics division, National University of Singapore.
2003 – Taught tutorials of Engineering Thermodynamics to the 2nd year mechanical
April 2003. engineering undergraduate students.
Aug. 2003-
Nov. 2003
- June 2002- **Laboratory demonstrator**, Thermodynamics division, National University of
Dec 2002 Singapore.
Facilitated and conducted laboratory experiments (Calibration of different sensors for measuring temperature) to the 2nd year mechanical engineering undergraduate students.

Jan 1998 – **Industrial training**
Feb 1998 Bangladesh Insulator & Sanitaryware Factory Ltd. (BISF), Mirpur, Dhaka, Bangladesh.

EDUCATIONAL BACKGROUND:

December **Master of Engineering**
2001-to Department of Mechanical Engineering, National University of Singapore
Jan. 2004 Title of thesis: Performance of MED evaporators with different tube profiles and materials.

1995-2000 **Bachelor of Science in Mechanical Engineering**
Bangladesh University of Engineering and Technology, Dhaka-1000, Bangladesh.
FYP thesis: Pressure drop and heat transfer in a tube having longitudinally staggered fins.

RESEARCH AREA: MEMS, Heat Transfer, Desalination.

AFFILIATIONS: Member of Bangladesh Society of Mechanical Engineers (BSME) (June 2000-to date).

PUBLICATIONS

1. Prasanta K. Dey, M N A Hawlader, S.K. Chou and J.C. Ho., Performance of a Single-effect Desalination system using submerged vertical tube evaporator, Vol.1, pp 411-416, 2nd BSME-ASME International Conference on Thermal Engineering, Dhaka, Bangladesh, 2-4 January, 2004.

Accepted Journal Paper

1. Prasanta K. Dey, M N A Hawlader, S.K. Chou and J.C. Ho, Performance of a Single-effect desalination system operating with different tube-profiles and materials, Desalination Journal, February, 2004.
2. M N A Hawlader, Prasanta K. Dey, Sufyan D. and C. Ying, Solar assisted heat pump desalination system, Desalination Journal, February, 2004.

CORRESPONDANCE

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