

Resume

Dr. Santosh B. Bopche, (Assistant Professor, NIT Hamirpur)

(D. O. B. 11/04/1979)

Date of Joining N. I. T. Hamirpur: 08/12/2015



Contact Details:

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Academics:

- Ph.D. In Mechanical Engineering (IIT Bombay), 2007-2012
- M. Tech. In Mechanical Engineering, Gold Medalist, 2005-2007
(Dr. Babasaheb Ambedkar Technological University, Lonere, Raigad)
- Post Graduate Diploma Course in Thermal Power Plant Engg. (N. P. T. I. Durgapur)
- B. E. In Mechanical Engineering (Nagpur University), 2000

Specialization: Thermal and Fluids Engineering

Areas of Interest: Experimental & Computational Heat Transfer, Computational Fluid Dynamics, Nanofluids, Two phase flow and Nuclear reactor heat transfer, Renewable energy resources (Wind turbines, Solar Equipments), IC Engines

Teaching Experience: 4 Years + at N. I. T. Hamirpur since Dec. 2015

Research Publications:

International Journals (At Elsevier)

1. Santosh B. Bopche, Madhukar S. Tandale, Experimental investigations on heat transfer and frictional characteristic of a turbulator roughened solar air heater duct, International Journal of Heat and Mass Transfer, Volume 52, (2009), Page No. 2834-2848

2. Santosh B. Bopche, Arunkumar Sridharan, Determination of view factors by Contour Integral Technique, International Journal of Annals of Nuclear Energy, Volume 36, (2009), Page Nos. 1681-1688
3. Santosh B. Bopche, Arunkumar Sridharan, Analytical expressions for configuration factors between cylindrical surfaces in rod bundle geometry, International Journal of Nuclear Engineering Design, Volume 240, (2010), Page Nos. 3020-3036
4. Santosh B. Bopche, Arunkumar Sridharan, Local configuration factors for radiant interchange between cylindrical surfaces in rod bundle geometry, International Journal of Nuclear Engineering Design, Volume 241, (2011), Page Nos. 903-934
5. Santosh B. Bopche, Arunkumar Sridharan, Experimental investigations on decay heat removal in advanced nuclear reactors using single heater rod test facility: Air alone in the annular gap, International Journal of Experimental Thermal and Fluid Science, Volume 34, (2010), Page Nos. 1456-1474
6. Santosh B. Bopche, Arunkumar Sridharan, Arun K. Nayak, Evaluation of contribution of thermal radiation in transferring decay heat to the moderator, in case of 18 rod bundle facility, simulating advanced nuclear reactors, Progress in Nuclear Energy, Volume 85 (2015) Page Nos. 83-95

Position of responsibility in Professional Societies:

- a) Reviewer for 'International Journal of Heat and Mass Transfer' and Progress in Nuclear Energy (Elsevier Pub. Ltd.)
- b) Reviewer for 'Open Journal of Fluid Dynamics' at Scientific Research Publication

Papers Presented in International conference proceedings

1. Santosh B. Bopche, Madhukar S. Tandale, Investigations for the effect of turbulators on the performance of a solar air heater, 1st International conference on Advances in Energy Research, Dec. 12-14, (2007) Dept. of Energy System Engg., IIT Bombay, Mumbai, PP. 808-815

2. Santosh B. Bopche, Arunkumar Sridharan, A. K. Nayak, Contribution of Radiation heat transfer in decay heat removal in advanced nuclear reactors using a single heater rod test facility, 21st National and 10th ISHMT-ASME (International) Heat and Mass Transfer Conference, Dec. 27-30, (2011) IIT Madras, Chennai, PP. 163-168
3. Santosh B. Bopche, Bhoopendra Dewangan, Temperature Prediction Over Pressure Tube of Nuclear Reactor by Using Finite Difference Method and ANSYS, International conference at 'SASTRARTH 2013', at Rungta College of Engineering and Technology, Bhilai, February 8th & 9th (2013)

Papers Presented in National conference proceedings: 4 (One best Research Paper Prize)