

Important Publications in International Journals since 2004

[1] Singh, S.N.. and Venkateshan, S.P., 2004, "Numerical study of natural convection with surface radiation in side-vented open cavities," **International Journal of Thermal Sciences**, **43**, pp. **865-876**.

[2] Singh, S.N.. and Venkateshan, S.P., 2004, "Natural convection with surface radiation in partially open cavities," **International Journal Heat and Technology**, **22(2)**, pp. **57 -64**.

[3] Singh, S.N.. 2008., "Numerical Study of Combined Natural Convection, Conduction and Surface Radiation Heat Transfer in Open Top, Side Vented Cavities" **International Journal Heat and Technology**, **26(2)**, pp. **101 -109**.

[4] Singh, S.N., 2006 " Performance Studies on Longitudinal Fins Solar Air Heater". **Journal of ISM Dhanbad**, **vol.2**.

[5] Singh, S.N..2008., " Experimental Studies on Flow and Heat Transfer in a 2-Pass Solar Air Heater" submitted for review and possible publications in **Solar Energy, Elsevier(2010)**.

[6] Singh, S.N., "Flow and Heat Transfer Studies in a Jet Plate Solar Air Heater" submitted for review and publications in **International Journal of Heat and Mass Transfer, Elsevier**.

[7] Singh, S.N " Development of empirical correlation of maximum temperature at the left hot wall of the open top, side vented cavities interacting heat due to conjugate natural convection with surface radiation. **under review**, Numerical Heat Transfer (Francis & Taylor))

National / International Conference Proceedings:

[1] Singh, S.N.. and Venkateshan, S.P., 2004, "Interaction of natural convection and surface radiation in a cavity with open top and partial opening on one side" Proc. 6th ISHMT-ASME Heat and Mass Transfer conference, Jan 2-5, 2004 held at IGCAR, Kalpakkam, pp. 54 – 61 (in CD).

[2] Singh, S.N, 2006, " Performance studies on continuous longitudinal fins solar airheater," Proc. 1st National conference on Advances in Energy Research, Dec 4-5, 2006, held at IIT Bombay, pp 205-210.

[3] Singh, S.N, 2007 “ Numerical Study of Laminar Natural Convection in Closed Cavity Partially Heated from Below”. Proc. of the International Conference on Computer Aided Engineering, Dec 13-15,2007, held at IIT Madras,pp.636-645.

[4] Singh, S.N, 2008 “Combined Effect of Natural Convection and Surface Radiation on Flow and Heat Transfer Studies in Side vented, Open Cavities” Proceedings of 8th ISHMT/ASME Heat and Mass Transfer Conference held at JNTU Hyderabad during 03-05 Jan 08, pp.240.

[5] Singh, S.N., 2010 “Numerical Study of Laminar Mixed Convection and Surface Radiation in Open Top, Side Vented Cavities”. Proceedings of 9th International ISHMT/ASME Heat and Mass Transfer Conference held at NPCL, Bombay, Jan 4-6,2010, pp.5.

[6] Singh, S.N, 2006, “Monitoring of the influence of the turbulators on heat transfer enhancement in the heat exchanger,” Proc. of National Seminar on COMOAT at ISM Dhanbad , Sept 4-5, 2006,pp. 293-300.

[7] Singh, S.N, 2008, “CFD Study of Laminar Natural Convection in a side Open Cavity Heated from Liner Side in a Jaw Crusher”. Proc. of National Seminar on Crushing, Screening &Conveying (CS&C-2008) held at ISM Dhanbad , Sept 11-12, 2008, pp.181-192.

[8] Singh, S.N, 2010 “**Flow and Heat Transfer Studies in a 2-Pass Solar Air Heater**”. Accepted for publications in Proceedings of 37th National 4th International Conference on Fluid Mechanics and Fluid Power (FMFP) to be held at IIT Madras during 16-18 Dec 2010.

RESEARCH WORK

Current Ph.D. thesis guidance:

Name of the Ph.D Scholar: Sri Mohit Arora

Title: **Performance Studies on Heat Transfer Enhancement in a Jet Plate and Longitudinal Fins Solar Air Heater.**

Details of Major Sponsored Research Projects:

MRP: Sponsored by **UGC New Delhi**

Project Topic: Performance Studies on Heat Transfer Enhancement in a Jet Plate and Longitudinal Fins Solar Air Heater.

Project cost: Rs. 7 lacs (approx)

PI: Dr. S.N.Singh

B.Tech project guided recently:

Name of the students:

1. Sri Ankit Bagla(9580)
2. Sri Manav Vohra(9899)
3. Sri Shashank Jain(9816)

Topic: **Performance Studies on a 2-Pass Solar Air Heater.**
