SWASTIK ACHARYA

Assistant Professor (2019 July Onwards)

Mechanical Engineering Department,

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EDUCATION :

PhD,
Department of Mechanical Engineering, 2019
Indian Institute of Technology Kharagpur, India
Area : Heat transfer and fluid flow

Master of Technology (M.Tech), 2015
Fluid and Thermal
Department of Mechanical Engineering,
Indian Institute of Technology Guwahati, India
MTech specialization: Thermal and Fliud

Bachelor of Engineering (B.Tech), 2012
Department of Mechanical Engineering,
BPUT, Odisha,India

Higher Secondary Education (+2), 2008,
Ravenshaw Junior College, Cuttack, India
CHSE,Odisha,India

Secondary Education (10th Standard), 2006,
Gopal Smruti Vidyapithya, Cuttack, India
HSE,Odisha,India

Area of Interest :

Natural convection, Conjugate heat transfer, Non- Newtonian fluid flow, Solidification and melting, Continuous casting

PUBLICATIONS :

Published Journal Papers:

1. Acharya, S. and Dash, S.K, (2017) Natural Convection Heat Transfer from a Short or Long, Solid or Hollow Horizontal Cylinder Suspended in Air or Placed on Ground, *ASME J Heat Trans*, vol 139(7), pp: 072501-1

2. Acharya, S. and Dash, S.K, (2018). Natural Convection Heat Transfer From perforated Hollow Cylinder with Inline and Staggered Holes. *ASME J Heat Trans*, 140(3), p.032501.

3. Acharya, S., Agrawal, S. and Dash, S.K., 2018. Numerical analysis of natural convection heat transfer from a vertical hollow cylinder suspended in air. *ASME Journal of Heat Transfer*, *140*(5), p.052501.

4. Acharya, S. and Dash, S.K., 2018. Natural convection heat transfer from a horizontal hollow cylinder with internal longitudinal fins. *International Journal of Thermal Sciences*, *134*, pp.40-53

5. Acharya, S. and Dash, S.K., 2019. Natural convection in a cavity with undulated walls filled with water-based non-Newtonian power-law CuO–water nanofluid under the influence of the external magnetic field. *Numerical Heat Transfer, Part A: Applications*, *76*(7), pp.552-575.

INTERNATIONAL CONFERENCES ATTENDED:

1. Oral presentation:

IMECE, 2017 at Tampa, Florida, USA by ASME

Three Dimensional Analysis of Natural Convection Heat Transfer from a Short or Long, Solid or Hollow Horizontal Cylinder Suspended in Air or Placed on Ground.

2. Poster presentation:

ISHMT-ASTFE Heat and Mass Transfer Conference (IHMTC-2017), Bits - Pilani, Hyderabad , India

Three dimensional Modeling of Natural Convection Heat Transfer From A Short or Long Cylinder with Constant Wall Heat Flux, DOI: 10.1615/IHMTC-2017.3120, pages: 2231-2239

LAB CONDUCTED :

Computational fluid dynamics lab (Using ANSYS Fluent) - UG and PG students (Jan- July,2018)

COMPUTER SKILLS :

Programming Language: C programming

Math Packages: MATLAB, EES

CFD Packages: ANSYS Fluent, COMSOL

ACHIEVEMENTS :

1. Qualified GATE-2013 with 99.62 percentile.
2. BRNS (Board of Research in Nuclear Science) Fellowship in IIT Guwahati 2013-15
3. Contributed towards a general purpose CFD solver over 'Hybrid Unstructured Grid' - Anupravaha -2 sponsored by BRNS, India and DAE, India at IIT Guwahati
4. 1st position in academic (B.Tech and School level)
5. National Rural Talent Scholarship awardees in 3rd, 5th and 7th standard.

EXTRA CURRICULAR ACTIVITIES :

1. Represented Cuttack district cricket team at state level cricket tournament in 2007

2. Represented IIT Guwahati cricket team in Inter IIT Sports Meet - 2014 held in IIT Bombay.

I here by declare that the above-furnished information is true, and therefore I am submitting my CV for your kind consideration. Expecting an affirmative response.

Date :-
Place : - (Swastik Acharya)