Associate Professor Cryogenic Engineering Centre Indian Institute of Technology Kharagpur Kharagpur - 721 302, INDIA

Research Focus: Heat Exchangers: Plate Fin, Coiled Tubular, Metal Foam and Minichannel Heat Transfer in Metal Foam, Solid Sorption Cooling, Cryosorption Storage of Hydrogen

Employment

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1	Year	Designation / Organisation
	May 2018 – till date	Associate Professor, Cryogenic Engineering Centre Indian Institute of Technology, Kharagpur
	May 2006 – May 2018	Assistant Professor , Cryogenic Engineering Centre Indian Institute of Technology, Kharagpur
	May 2004 – April 2006	Post Doctoral Researcher , Hydrogen Research Institute, University of Quebec at <i>Trois Rivieres</i> , Canada
	June 1999 – April 2004	Research Scholar , Cryogenic Engineering Centre Indian Institute of Technology, Kharagpur
	Feb 1995 – June 1999	Engineer (R&D), Research and Development Dept., Bharat Heavy Plates and Vessel Ltd. (Now HPVP Ltd)

Education

Degree	Year	University/ Institution
Doctor of Philosophy	2005	Indian Institute of Technology Kharagpur
Master of Technology, Cryogenic Engineering	1995	Indian Institute of Technology Kharagpur
Master of Science, Physics	1992	Jadavapur University, Kolkata
Bachelor of Science, Physics	1990	Jadavapur University, Kolkata

Research Activities

Multistream Heat Exchangers

- Design, simulation, optimisation of plate fin type
- Tubular coiled type exchanger design / fabrication

Applications of Open Cell Metal Foam in

- Passive radiation cooler for space cryogenics
- Anti-slosh baffle in cryogen transport
- Regenerator packing material
- Extended heat tansfer surface or fins

Heat Transfer in Minichannel

- Thermo-hydraulic characterisation of minichannel
- Minichannel heat exchanger design, fabrication

Solid Sorption

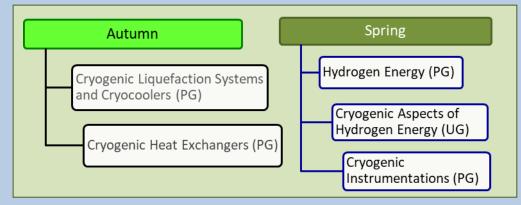
- Pulsed solid sorption continuous cooling
- Equilibrium adsorption capasity measurement



Sponsored Projects/ Consultancy

Project Title	Agency
Studies on Desorption Cooling from Activated Carbon	IIT Kharagpur
Experimental Studies on High Porosity Open Cell Metallic Foam Heat Transfer	CSIR, New Delhi
Design, Fabrication and Testing of Miniature Heat Exchangers and Heat Sinks	CSIR, New Delhi
Radiation Heat Transfer in Open Cell Metal Foam – An Experimental Study	CSIR, New Delhi
The Heat Exchanger Design for Helium Liquefier at VECC Kolkata	VECC, Kolkata

Teaching



Thesis Supervision

Ph.D. Theses Title (Completed)

- Activated Carbon based Continuous Sorption Cooling in a Single Adsorbent Column.
- Analysis and Performance Studies of Some Equipment with Combined Sensible and Latent Heat Transfer (as co-supervisor)
- High Porosity Open-Cell Metal Foam as Extended Heat Transfer Surfaces

Ph. D. Students (Ongoing) - Two

M.S. Thesis Title (Completed)

Experimental and Theoretical Studies on Miniature Crossflow Heat
Exchangers

Personal

Website: http://www.iitkgp.ac.in/department/CR/faculty/cr-indranil

Nationality: Indian



