

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

Indranil Ghosh

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

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	<ul style="list-style-type: none"> • Design, simulation, optimisation of plate fin type • Tubular coiled type exchanger design / fabrication
Applications of Open Cell Metal Foam in	<ul style="list-style-type: none"> • Passive radiation cooler for space cryogenics • Anti-slosh baffle in cryogen transport • Regenerator packing material • Extended heat transfer surface or fins
Heat Transfer in Minichannel	<ul style="list-style-type: none"> • Thermo-hydraulic characterisation of minichannel • Minichannel heat exchanger design, fabrication
Solid Sorption	<ul style="list-style-type: none"> • Pulsed solid sorption continuous cooling • Equilibrium adsorption capacity measurement

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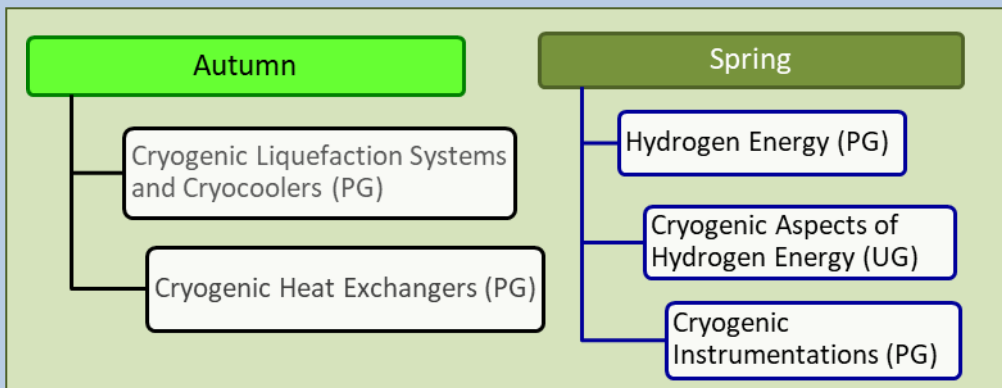
91-3222 283589 (Residence)



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

