

# INDRANEEL SEN

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Birth date: 4th December 1975

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## ACADEMIC PREPARATION & TRAINING

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Ph.D. in Polymer Engineering from University of Tennessee at Knoxville, USA (Dec. 2007)

Bachelor of Mechanical Engineering from Jadavpur University Calcutta, India (July 1999)

- Post Doc. at University of Tennessee (Department of Nuclear Engineering) (Jan 2008 ~ Nov 2011)
- Post Doc at Variable Energy Cyclotron Center (DAE) India (March 2012 ~ April 2013)
- Intern and Marketing Executive at Crompton Greaves Ltd. India Consumer Division (1999 ~ 2001)

## RELEVANT AWARDS PUBLICATIONS AND PATENTS

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P3 (People Planet Prosperity) 2006/07 Phase 1 Award winner. A Novel and Environmentally Friendly Method for Expansion and Molding of Polymeric Foam.

- United States patent (Pub no. 20090145740, Pub Date 2009-06-11) "Method for Expansion and Molding of Polymeric foam" I.Sen, R.Benson, D.Penumadu.
- I. Sen, E. Dadush, D. Penumadu, "Microwave Assisted Foaming of Expandable Polystyrene Beads", Journal of Cellular Plastic, vol. 47 no. 1 65-79, Jan, 2011
- I Sen et al., "Thermal Neutron Scintillator Detectors Based on Poly (2-Vinylnaphthalene) Composite Films", IEEE Transactions On Nuclear Science, Vol. 58, No. 3, 1386 – 1393, June 2011
- I. Sen, et al. "Polyester Composite Thermal Neutron Scintillator Films", IEEE Transactions On Nuclear Science, Vol. 59, No. 4, 1781 – 1786, August 2012
- S. Young, I. Sen and D. Penumadu, "Investigation of Lithium-6 Enriched Particle Dispersion in Fluorescent Electrospun Nanofibers", Journal of Engineering Materials and Technology, Vol. 134, No. 1, January 2012
- D Penumadu., I.Sen, R.Uppal., "Polymeric Composite Thermal Neutron Detector", US Patent.. US 20130270442 A1
- R.. Uppal, I. Sen et al., "6Li Embedded Biaxially Stretched Scintillation Films for Thermal Neutron Detection and Neutron/Gamma Discrimination Adv. Eng. Mater.. doi: 10.1002/adem.201300237

## SCIENTIFIC INTERESTS

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1. Syntheses and Characterization of Polymer Based Thermal Neutron Scintillator Detectors,
2. Energy and Charge Transport in Highly Organized Syndiotactic Poly Aromatic Systems
3. Metal Alloy Nanoparticles