



Name : Samruddhi B Kamble

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Current Status: Ph.D Student

Guide: Dr.Suresh Bhat.

Research Interests:

- Smart Materials: Thermoresponsive PolyN-isopropylacrylamide gels, Optical properties and flow behaviour of soft glassy systems.
- Micro-rheology of complex fluids.
- Applicative research: Biomedical application, Food rheology.
- Crystallization of semicrystalline polymers
- Catalysis: Organo-metallic Synthesis.

Research Experience & Skills:

- Shear enhanced crystallization and melt Fracture studies in polyethylene melts.
- Rheo-optical set up and analysis by Labview software.
- Synthesis and characterization of organo metallic complexes.
- Analysis of DSC, rheological Data, spectroscopy techniques etc.

Presentations / Seminars:

- **“Theory of Flow Induced Crystallization”**(Paper presentation)at the National Chemical Laboratory, Pune.
- **“Shear induced smecting ordering of isotactic polypropylene”**(Paper presentation) at the National Chemical Laboratory, Pune.
- **“Melt Fracture studies of HDPE”** presented at IIT, Powai.
- **“Crystallization of bi-disperse melts”**, presented at IIT, Powai
- **“Holography: 3D imaging Technique”**, presented at University of Pune.

Achievements:

- Qualified the CSIR-JRF-NET and State eligibility test (SET) examination (2006)
- Awarded for 1strank in M. Sc. (Analytical Chemistry) at the Nowrosjee Wadia College(2004).
- Awarded a gold medal for 1strank in B.Sc (Chemistry) at the Nowrosjee Wadia College (2002).
- Awarded for 3rdrank in the Arnikar Lecture competition (Topic: Holography: 3D

- imaging technique) at the Nowrosjee Wadia College in 2003.