

# Suresh Bhat



## Contact Information:

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## Current Interests

- Investigation of structure, dynamics & rheology of soft matter systems using scattering techniques
- Application of nanoscience concepts to food technology
- Development of novel scattering tools for soft matter research

## Education

- Ph.D, Physics, Indian Institute of Technology, Delhi, 1999
- M.Tech, Applied Optics, Indian Institute of Technology, Delhi, 1993

## Experience

- 2003-2006: Consultant, LS Instruments GmbH, Switzerland: Design, development and installation of novel light scattering/rheology instruments
- 2002-2006: Nestle Postdoctoral Fellow, Dept. of Physics, University of Fribourg, Switzerland: Light scattering investigation of milk based products. protein-polysaccharide interactions, phase separation, gelation & kinetic trapping of food microstructures
- 2000-2002: JSPS Postdoctoral Fellow, Dept. of Advanced Materials Science, Faculty of Engg., University of Tokyo, Hongo, Japan: Dynamic light scattering studies of linear polyelectrolytes
- 1997-1999: Project Scientist, Physics Dept., IIT Delhi: Light scattering investigations of turbulence in fluids

## Technical skills:

- Hands on experience in building novel light scattering instruments using state of the art technology

## Achievements

- Awarded postdoctoral fellowship by Japanese Society for Promotion of Science (JSPS) in 2000
- Publications in peer-reviewed international journals: 10
- Intl. conference talks: 6; Poster Presentations: 4
- Patents filed: 1

## Select Publications

- S. Bhat, R. Tuinier & P. Schurtenberger, *J. Phys.: Cond. Mat.* **18**, L339-L346 (2006)
- P. Zakharov, S.Bhat, P. Schurtenberger & F. Scheffold, *Applied Optics*, **45**, 1756-1764 (2006)
- S. Bhat, K.Pal & S. Chopra, *Expts. In Fluids*, **28**, 160 (2000)
- S. Bhat, S. Rai, A.K. Razdan & S. Chopra, *Phy. Rev. E* **50**, 5127 (1994)
- S. Chopra, S. Bhat, J. Joseph, S. Rai & J. Rai, *Opt. Commun.*, **109**, 205 (1994)

## Hobbies

- Interest in music & sports