

PERSONAL PROFILE OF DR. MANISHA GUPTA

PROFESSOR, DEPARTMENT OF PHYSICS, UNIV. OF LUCKNOW

QUALIFICATION:

- * Ph.D. 1990 from UNIVERSITY OF LUCKNOW, LUCKNOW
- * M.Sc. (Physics) 1985 with 1st Div (5th position) from UNIVERSITY OF LUCKNOW, LUCKNOW
- * B.Sc (Physics, Chemistry, Mathematics) 1983 with 1st Div from UNIVERSITY OF LUCKNOW, LUCKNOW
- * Intermediate 1983 with 1st Div from UP BOARD, ALLAHABAD
- * High school 1981 with 1st Div from, UP BOARD, ALLAHABAD
- * Proficiency (German) 1987 with 1st Div from UNIVERSITY OF LUCKNOW, LUCKNOW

POSITIONS HELD:

- * Professor (24 April 2007 – Till Date)
- * Reader (24 April 1999 - 2007)
- * Lecturer (24 April 1990 — 24 April 1999)
- * Part - Time Lecturer (Sept 1988 - April 1990)
- * Lecturer at SRI SATHYA SA1 DEGREE COLLEGE, BHOPAL from Dec 1987 - June 1988
- * J.R.F.-UGC (Project) at DEPT. OF PHYSICS, UNIVERSITY OF LUCKNOW from 1986-1989

ACADEMIC EXPERIENCE: TEACHING – 32 years; RESEARCH - 34 years

Ph.D. GUIDED: 16

PAPERS PUBLISHED:

Approx. 80 papers published in International/ National journal

RESEARCH AREAS:

My research interests are in determining spectroscopic, acoustical, dielectric, optical, volumetric and viscometric properties of polymeric materials and their mixtures in varying composition and temperature range to obtain valuable information about the molecular interactions and macroscopic behavior of fluid mixture. Such studies provide ample opportunities for continuous adjustment of observable properties and thus prepare experimental background for optimizing the choice of solvent in manifold applications. The investigation on the possible change of thermodynamic properties of mixtures and their degree of deviation from ideality have been found to be an excellent qualitative and quantitative way to elicit information about molecular structure and intermolecular forces in liquid mixtures. These studies are important because of their extensive use in pharmaceutical industry, cosmetics, chemical engineering etc. I have also studied the dielectric phenomenon pertaining, to solids, liquids and solutions. Papers based on these work have been published in various international and national journals of repute and presented in National and International Conferences. Currently we are involved in synthesis and characterization of polymer thin films and ceramics.

INTERNATIONAL CONFERENCES ATTENDED:

- * 5TH WORLD CONGRESS ON ULTRASONICS, PARIS (FRANCE), 2003

* POLYCHAR-16, WORLD FORUM FOR ADVANCED MATERIALS, LUCKNOW, 2008

* ICMLEME, DUBAI, 2014

CONFERENCE PAPERS:

INTERNATIONAL: 35

NATIONAL: 75

PROJECT COMPLETED:

* 'Molecular Interaction in Liquid Mixtures-An Ultrasonic, IR, Optical and Volumetric study', Aug 1992 – Aug 2004, **CSIR, NEW DELHI.**

* 'Study of Molecular Association, Relaxational and Thermodynamical Properties of Some Polymers and Their Solutions', April 2007 – Mar 2010, **MAJOR RESEARCH PROJECT**, funded by **UGC, NEW DELHI.**

* 'Thermodynamical, Rheological and Acoustical properties of dilute solution of polymer' Aug 2015-July 2017, **MAJOR RESEARCH PROJECT** Funded by **UPCST, LUCKNOW.**

SIGNIFICANT ENGAGEMENTS AND ACHIEVEMENTS:

ACADEMICS:

* Served as **Sectional President** in Physical Science Section of Indian Science Congress 2018.

* Served as **Sectional Recorder** in Physical Science Section of Indian Science Congress 2015 and 2016.

* Delivered **Invited Lectures/Talks** in various Conferences and Academic Staff College

* **Coordinator (Physics)**, B.Sc. Evening Courses, 2005 to 2009

* **Designed** and **Set** several **new experiments** at UG and PG level

* **Supervised** several students of M.Sc. (Electronics) for completing their projects

* Contributed in **modification** and **framing the syllabus of Solid State Physics, Physics of Electronic Materials** at P.G. level and **Electronic Devices** at U.G. Level as per UGC norms

AWARD for BEST POSTER in

- 90th session of Indian Science Congress held at Bangalore, 2003.
- 102th session of Indian Science Congress held at Mumbai, 2015.
- 103th session of Indian Science Congress held at Mysore, 2016.
- XXIST National Symposium on Ultrasonics (NSU), 2016.
- 104th session of Indian Science Congress held at Tirupati, 2017.
- 106th session of Indian Science Congress held at Jalandhar, 2019

* **Refereed many manuscripts** submitted to journals of International repute such as Physica B, Int.J Thermophys., J. Chem. Thermodyn., J. Mol. Liq etc

* Completed **Certificate Course** in computers

- Data Preparation Asstt
- Console Operator Cum Programmer Asstt

- * Several **talks** were recorded and broadcasted from AIR, Lucknow on Scientific topics.

ADMINISTRATIVE:

- * Worked as **Additional Proctor**, 2012-2015.
- * Worked as **Asstt Proctor**, 2006
- * Worked as **Deputy Coordinator, JEE BEd 2010, 2015 to 2018(State Core Team)** conducted by Lucknow University
- * Worked as **Asstt provost**, 2016-2017
- * Worked as **Asstt coordinator in UG/PG/ Ph.D admission** 1993, 1996, 2013
- * Worked as **Deputy Coordinator in JEE BEd 2011** counseling, in **Ph.D admission** 2014
- * Worked as **Counsellor in B.Ed** 2008, 2009, **UG/PG admission** 2005 to 2010
- * Worked as **Asstt OSD in special scrutiny UG/PG**, 1991
- * Worked as **Asstt Supdt in UG/PG/Law** results, Despatch, Evaluation etc. 1992 to 1998, 2006, 2007, 2011
- * Worked as **Observer** in CPMT 2008, 2009, 2017

MEMBERSHIP:

- * Life Member of Indian Science Congress Association since 1996
- * Life Member of Material Research Society of India since 2005
- * Life Member of Ultrasonic Society of India since 2008
- * Life Member of Lucknow University Physics Alumni Association since 1992
- * Sectional Committee Member of Physical Sciences, ISCA, 1998, 2001, 2003, 2008 to 2010.