



## **DR. Zaheerudeen Saheb P**

**Head**

**Department of Physics**

Teaching UG and PG (Bio Physics and Quantum Chemistry) with emphasis on innovative methods of teaching learning concepts. Special interests in Nano science and thin film research. Designed Instruments/ devices during the course of research collaborating with Indian Institute of Science.

### **WORK EXPERIENCE**

Three and a half decades of work experience teaching UG and PG (Bio Physics and Quantum Chemistry). Inclined in both Bulk and Nano technology and thin film research of glassy samples.

### **EDUCATION**

M.Sc with specialization in Nuclear Science., Bangalore University. Developed program in Fortran IV during PG dissertation for computing Nuclear size and Nuclear radius using card reader at IISc., Department of Instrumentation.

Ph.D (Material Science and Thin Films) collaborative assistance from IISc., Bangalore University.

## RESEARCH

Preparation and Characterization of Bulk and Thin Film Chalcogenide Glasses Exhibiting Carrier Type Reversal.

## DEVICES DEVELOPED DURING THE COURSE OF RESEARCH

- Developed Thin film coating unit for thermal evaporation with insitu thickness monitor with substrate at high temperature.
- Cold Finger for studying the conductivity properties of thin film samples with insitu monitoring with interfaced Keithley data acquisition device.
- ThermoPower measuring device for Thermo power measurements of both bulk and thin film samples.
- Pre Amplifier for high impedance glassy samples using intersil Auto-compensating IC.

## INTERESTS

Keep Updated in Nano research and sensors.

## PUBLICATIONS

### RESEARCH PUBLICATIONS IN INTERNATIONAL JOURNALS

1. P.Z. Saheb, S. Asokan, K.A. Gowda, Applied Physics A, 77, 665-668 (2003) Materials Science and Processing “Electrical switching studies.....”
2. P. Zaheerudeen Saheb, S. Asokan, K. Appaji Gowda, Journal of Optoelectronics and Advanced Materials, Vol.5, No.5, 2003, p 1215-1221 “Transient and steady state photoconductivity studies.....”
3. P. Zaheerudeen Saheb, B.H. Sharmila, S. Asokan, K. Appaji Gowda, Solid State Communications, 129 (2004) 765-768 “Extended rigidity percolation and chemical thresholds.....”

### POSTER PRESENTATION IN INDO JAPANESE WORKSHOP AT NEW DELHI.

P. Zaheerudeen Saheb, S. Asokan, K. Appaji Gowda, “ Amorphous chalcogenide optical sensors by photodiffusion” at Indo-Japanese workshop on Microsystems Technology, held at Delhi, under Indo-Japan co-operative science program. November 23-25, 2000.

## PAPERS ACCEPTED AT INTERNATIONAL CONFERENCE /WORKSHOP

1. P. Zaheerudeen Saheb, S. Asokan, K. Appaji Gowda, "Photoconductivity studies on lead doped telluride glasses" at International Conference on Materials for Advanced Technologies (ICMAT 2001) at Singapore.
2. Zaheerudeen Saheb. P, Sharmila, B. H, Asokan, S, K. Appaji Gowda, "Extended rigidity percolation and chemical thresholds in Ge-Te-Pb glasses as revealed by MDSC". At Romanian Conference on Advanced Materials, ROCAM 2003 : fourth international edition, Constanta, Romania, September 15 - 18, 2003. Published Research Papers in International Journals.

## AWARDS

1. Department of Space Science, University of Pune, Pune  
**O+ (Outstanding)** for project Work "The Re-entry Trajectory of a Ballistic Missile".
2. **Dr. Mumtaz Ahmed Khan Award FOR DISTINGUISHED COMMUNITY SERVICE** on Founders Day 6<sup>th</sup> September 2019.

## REFRESHER COURSE ATTENDED

1. Department of Physics, Aligarh Muslim University, Aligarh  
Theme: "*Experimental Techniques*" Duration: 30 days
2. Department of Space Science, University of Pune, Pune  
Duration: 28 days Obtained **O+ (Outstanding)** for project Work  
Titled: "*The Re-entry Trajectory of a Ballistic Missile*".
3. Inter-University Centre for Astronomy and Astrophysics (IUCAA), Pune  
Duration: 30 days  
Theme: "*Astronomy and Astrophysics*"
4. Department of Photonics, University of Pondicherry, Pondicherry.  
Duration: 21 days  
Theme: "*Laser and Spectroscopy*".

## WORKSHOP / SEMINAR ORGANIZED

Organized many workshops and seminars like

- **National Science Day was celebrated on 28th February 2015 at Government First Grade College, Turuvekere, Tumkur University.** On this occasion a seminar by Prof. Ananda Raj, Principal, Government college, Tumkur, was organized in the Department titled “Our Galaxy “.
  - Organized **Night sky Viewing Programme** on March 7, 2015 Parents / Public participated in the event. To mention a few.
  - Organized **INSPIRE** Program as a coordinator in 2016 at Al-Ameen Arts, Science and Commerce College, Bengaluru.
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