

BIO-DATA

1.Name:-Dr (Mrs) Rita Paikaray, Reader in Physics, Ravenshaw University

2.Qualification:-M Sc,M.Phil,Ph.D,DCA

3.Area of Research: *Plasma Physics & Ultrasonics*

4. a) Project Completed:-

1. "Development of effective models of demonstrating teaching of selected Physics concepts in rural access sponsored by NCERT-1995-98.
2. "To study the molecular interaction of acetone & depha with various polar & non polar liquids using ultrasonic probes at different frequencies." Sponsored by UGC Ref No-F.Pso.017/04-05,2005-07.

b)Project Ongoing:-"Plasma Blob motion across non-uniform magnetic field."

Sponsored by N F P-India,Ref No-N F P/DIAG/03.

5.List of Research Publications: -

- i) "Ultrasonic study ..." **Bulletin of O.P.S.** Vol-XIII,54-58,(2006).
- ii) "Ultrasonic study ..." **Bulletin of O.P.S**,Vol-XIV,120-128,(2007).
- iii) "Ultrasonic study..." **Journal of Acoustical Society of India**,34,4,135-139(2007).
- iv) "Study of molecular ..." **Proceeding of National Symposium on ACOUSTICS**, KSRT College,Tamilnadu pp.403-408 (2007).
- v) "Study of acoustic parameters ..." **Indian Journal of Physics**, 83,4,429(2009).
- vii)"Radial Drift Velocity ..."Souvenir of **22nd National Symposium on Plasma Science & Technology**,PLASMA-2007.(p-311(2007)).
- viii) "Ultrasonic investigation ..." **Proceedings of National Symposium on Acoustics**,NSA-2008.Dec 22-24,2008.
- ix) "Acoustical investigation of ..." **Proceedings of National Symposium on Acoustics** 181(2008).
- x) "Role of frequency ..." **Ultra Scientist of physical Sciences**, 21(1), 99(2009).
- xi) "Ultrasonic study of ..." **Indian Journal of Physics**,83,9,763(2009)
- xii) "Frequency dependent ..." **Ultra Scientist of Physical Sciences**, 21(2),333 (2009)
- xiii) "Effect of frequency ..." **Indian Journal of Physics**, 83,11,761(2009).
- xiv) "Molecular interaction studies ..." **Presented in National Symposium on acoustics** 26th to 28th Reearch Centre Imarat,Hyderabad Nov,2009.
- xv) "Acoustic studies of ..." **Accepted for presentation in National Symposium on acoustics** 26th to 28th Reearch Centre Imarat,Hyderabad Nov,2009.
- xvi) "A comparative ultrasonic study ..." Presented in **National Symposium on acoustics** 26th to 28th Reearch Centre Imarat, Hyderabad Nov,2009.
- xvii) "Electron temperature and plasma density measurements ..." **Proc. of 24th National Symposium on Plasma Science and Technology**, NIT, Hamirpur 8-11 Dec (2009).
- xviii) "Density and magnetic fluctuation studies ..." **Proc. of International Symposium on Waves, Coherent Structures and Turbulence in Plasma (Kaw Fest)** at IPR, Gandhinagar, India 12-15 Jan (2009).

xviv) “Study of Molecular Interaction ...” **Journal of Acoustical Society of India**, 37(1), 20 (2010)

xvv) “Study of Fluctuations...” *O J Phys* 17(1), 53 (2010)

xvvi) “Transverse drift velocity ...” **J Phys Conference Series 208**, 012049 (2010).

xv vii) “Density & temperature measurements ...” **J Phys Conference Series 208**, 012049 (2010).

xv viii) “Ultrasonic investigation ...” **Journal of Acoustical Society of India**, 37(2), 70 (2010)

12 .Teaching Experience:-

a) +3 Sc:-22 yrs

b) M Sc:-15 yrs teaching Plasma Physics (Special Paper), Electronics (UG).

