

## BIODATA

**Name** : **Dr. Susama Misra**

**Designation** : **Reader in Physics**

**Date of Birth** : **06.11.1954**

### Educational Qualifications

| SL NO | QUALIFICATION  | YEAR OF PASSING | SUBJECT PG ONWARDS         | DIVISION  | NAME OF THE UNIVERSITY                                      |
|-------|--|-----------------|----------------------------|---|---|
| 1.    | B.Sc.  | 1974            | Physics                    | 2 <sup>nd</sup> Class Hons. & Distn.  | Utkal Univ.   |
| 2.    |  |                 |                            | First Awarded <b>Rai Bahadur B.N.Mishra Memorial Gold Medal ,Best Lady candidate in B.A B.Sc,M.A, M.Sc 1976</b> |   |
| 3.    | M.Phil   | 1983            | Physics                    | Passed (First)  | Utkal Univ.   |
| 4     | Diploma in Advance Physics   | 1988            | <b>Advance Physics</b>     | Passed  | <b>Institute of Physics</b><br>Under Dept. of Atomic Energy |
| 5     | Ph.D   | 1998            | Physics                    | Passed  | Institute of Physics/Utkal Univ.                            |
| 6     | Diploma in Computer Applications   | 2002            | Computer Applications      | Passed(ist)   | Ravenshaw College   |
| 7     | <b>High energy Physics Fifth Scientific &amp; Engg. Research Council School(DST)</b> | 1989            | <b>High energy Physics</b> | Passed  | <b>IIT, Kanpur</b>  |

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|-----|--|----------------------|--|------------------------|------------------------|
| 8.  | <b>ISTE Winter School on Advanced Techniques of Structural characterization of Materials</b> | 1990                 | <b>Advanced Techniques of Structural characterization of Materials</b> | Passed                 | <b>IIT, Kharagapur</b> |
| 9   | <b>UNESCO Regional Training Course in Fibre Optics</b>                                       | 2001                 | Fibre Optics   | Passed                 | <b>IIT, Kharagapur</b> |
| 10  | <b>Modern Mathematical Techniques in Comp Sc.,Communication and IT. (AICTE)</b>              | 2002                 | Modern Mathematical Techniques in Comp Sc.,Communication and IT.       | Passed                 | <b>IIT, Kharagapur</b> |
| 11. | Simple Sanskrit Speaking course (UGC)  | 2002                 | Simple Sanskrit Speaking course  | Passed                 | Raveshaw college       |
| 12. | DSc.(Regd)   | -                    | Physics  | Thesis to be submitted | Utkal Univ.(Regd)      |
| 13. | Current Trends in Physics  | 1982<br>1986<br>1989 | Physics  | Passed                 | Institute of Physics   |

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**Spealisation|**

**M.Sc.** Electronics

**Ph.D** Experimental Condensed Matter Physics

**Research** Experimental Condensed Matter Physics

**Interest**

**Semiconductor Thin Films,Nanomaterials**

**Worked on RBS,PIXE,XRD,SEM**

## 5.List of Publications

### A.Paper published in National & International Journals.

| SL<br>N<br>O | TITLE  | NAME OF<br>THE<br>JOURNAL   | NUMBE<br>R | VOLUM<br>E | MONT<br>H &<br>YEAR<br>OF<br>PUBLI<br>C<br>ATION | PAG<br>E<br>NO.<br>FRO<br>M-<br>TO | NATIONAL/<br>INTERNA<br>TIONAL |
|--------------|--|---|------------|------------|--|------------------------------------|--------------------------------|
| 1.           | Preparation and Characterization of (Bi <sub>2</sub> S <sub>3</sub> ) <sub>1-x</sub> (CdS) <sub>1-x</sub> Thin Films   | Jl. Of Applied Physics  |            | 75         | 1994   | 4576                               | International                  |
| 2.           | Study of L x-ray Production Cross-section by proton Bombardment of Pb & Bi   | Jl. Of Phys B,Atomic,Mol. & Optical Physics   |            | 27         | 1994   | 1105                               | International                  |
| 3.           | Substoichiometric Cd-Bi-S thin films for Photo voltaic applications  | Sixth photo voltaic science and Engg. Coference (Solar Energy Material & Solar Cell status)   |            |            | Feb. 1992  | 1055                               | International                  |
| 4.           | Composition of (Bi <sub>2</sub> S <sub>3</sub> ) <sub>1-x</sub> (CdS) <sub>1-x</sub> Semiconductor Thin Films by Proton Induced X-Ray emission and Helium Backscattering | 3 <sup>rd</sup> International Conf. & Intensive Tutorial Course on Semiconductor Materials and Technology(International Journal status ,Journal of Surface Sc.) |            |            | Dec. 16-21                                       |                                    | International                  |

| <b>SL NO</b> | <b>TITLE</b>  | <b>NAME OF THE JOURNAL</b>   | <b>NUMBER</b> | <b>VOLUME</b> | <b>MONTH &amp; YEAR OF PUBLICATION</b> | <b>PAGE NO. FROM-TO</b> | <b>NATIONAL/INTERNATIONAL</b>   |
|--------------|---|--|---------------|---------------|--|-------------------------|---|
| 5.           | Scanning electron Microscopy of Bi <sub>2</sub> S <sub>3</sub> 1-x(CdS) <sub>1-x</sub> Thin Films                         | Ninth Annual General Meeting of Material Research Society of India (Equivalent national Journal status ,JI of Material Sc. |               |               | Feb. 1998                              |                         | National  |
| 6.           | Self absorption in Bi <sub>2</sub> S <sub>3</sub> 1-x(CdS) <sub>1-x</sub> Thin Films by 2Mev Proton Ion Projectile Energy | Sixth European conf. on Energy Dispersive X-ray Spectrometry 1998, <u>ITALY</u> (JI of X-Ray Spectrometry status)          |               |               | June 1998                              |                         | International Paper accepted as spl. Poster for exhibition (7-12 June 1998 & Public Address.)(Nobel Laureates in the international committee) |
| 7.           | Scanning electron Microscopy of Bi <sub>2</sub> S <sub>3</sub> 0.40(CdS)0.60Thin Film on glass and Si <111> substrates    | 4 <sup>th</sup> International Conference nano Structured Materials ,Royal Inst. Of Technology,Sto ckholm, <u>Sweden</u>    |               |               | June 1998                              |                         | International   |

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|----|--|---|--|--|-----------|--|---------------|
| 8. | Short Biography of Self in international Who's Who of Professional and Business Women, Seventh edition | 27 <sup>th</sup> International Millennium congress on Arts and Communication, Washinton DC USA (Invited ) |  |  | July 2000 |  |               |
| 9  | Total absorption in Bi <sub>2</sub> S <sub>3</sub> ) <sub>1-x</sub> (CdS) <sub>1-x</sub> Thin Films    | International Conf. on Advances in Surface Treatment; Research and Applications                           |  |  | Nov. 2003 |  | International |
|    |  |   |  |  |           |  |               |
|    |  |   |  |  |           |  |               |

| Sl. | Title  | Name Of the Journal With address  | No. Vol. | Month & Year of Publication | Page No. From-To | National or International |
|-----|--|---|----------|-----------------------------|------------------|---------------------------|
| 1   | Preparation and Characterization of (Bi <sub>2</sub> S <sub>3</sub> ) <sub>1-x</sub> (CdS) <sub>1-x</sub> Thin Films | Jl. Of Applied Physics USA  | 75       | 1994                        | 4576             | International             |
| 2   | Study of L X-ray Production Cross-Section by Proton Bombardment of Pb and Bi.  | Jl. of Phys. B. Atomic, Molecular and Optical Physics UK                                | 27       | 1994                        | 1105             | International             |
| 3   | Substoichiometric Cd-Bi-S thin films For photovoltaic applications.  | Sixth photo-voltaic Sc. and Engineering Conference. (Solar Energy Material & Solar Cell |          | Feb. 1992                   | 1055             | International             |

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|---|---|----------------------|----------------------|
| <b>4 Composition of<br/>(Bi<sub>2</sub>S<sub>3</sub>)<sub>1-x</sub>(CdS)<br/>Semiconductor<br/>Thin films by<br/>Proton Induced<br/>X-ray Emmission<br/>and Helium<br/>Backscattering</b> | <b>Status)<br/>3<sup>rd</sup> Interna-<br/>tional Confe-<br/>rence and Inte-<br/>nsive Tutorial<br/>course on<br/>Semiconductor<br/>Materials and<br/>Technology<br/>(Jl. of Surface<br/>Sc. status )</b> | <b>Dec.<br/>1996</b> | <b>International</b> |
| <b>5.Scanning Electron<br/>Microscopy Of<br/>(Bi<sub>2</sub>S<sub>3</sub>)<sub>1-x</sub> (CdS)<sub>x</sub><br/>Thin Film</b>  | <b>Ninth Annual<br/>General Meeting<br/>of Materials Research<br/>Society of India<br/>(Journal of Material Sc.<br/>Status)</b>   |                      |                      |