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M.Sc, Ph.D
Associate Professor
Department of Physics
Ramananda College, Bishnupur
Bankura, West Bengal, India
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AREAS OF INTEREST/SPECIALISATION

- Solid State Physics
- Electronics

ACADEMIC ACHIEVEMENTS

- Received Merit Cum means Scholarship from IIT Khragpur in 1990
- Qualified NET for Research Fellowship and Lecturership, UGC in 1992
- STA fellowship ,Technology Center of Nagasaki, Japan, in 2000

RESEARCH EXPERIENCE

From	To	Name and Address of Company / Organization	Position held
1993	1995	IACS, Kolkata	JRF
1996	1999	IACS, KOLKATA	SRF
2000		Technology Center of Nagasaki, Japan	PDF

ACADEMIC EXPERIENCE

- Lecturer in Physics (25.02.2000)
- Sr. Lecturer (25.02.2004)
- Reader (25.02.2009)
- Associate Professor(25.02.2012)

ADMINISTRATIVE EXPERIENCE

- Head, Dept. of Physics, Ramananda College,
- Co-ordinator, IQAC, NAAC, Ramananda College
- Subject Expert of CAS under Bankura University.
- Member of Board of Studies, UG, Midnapur College (Autonomous)

PUBLICATIONS

(Journals/Proceedings/Chapter in Books)

1. *Low Temperature Electrical Conductivity of Polyaniline - Polyvinyl Alcohol Blends.*
M. Ghosh, A. Barman, S. K. De and S. Chatterjee. Solid State Communication
103, 629 (1997).
2. *Electrical Transport in Paratoluene Sulphonate Doped Polypyrrole Films at Low Temperature.*
M. Ghosh, A. Barman, A. Das, A. K. Meikap, S. K. De and S. Chatterjee
J. App. Phys. **83**, 4230, (1998).
3. *Transport Properties of HCl Doped Polyaniline and Polyaniline - Methyl Cellulose Dispersion.*
M. Ghosh, A. Barman, S. K. De and S. Chatterjee.
J. App. Phys. **84**, 806, (1998).
4. *Crossover from Mott to Efros - Shklovskii Variable Range Hopping Conductivity in Conducting Polyaniline.*
M. Ghosh, A. Barman, S. K. De and S. Chatterjee.
Synth. Met. 97/1, **23**, (1998).
5. *Hopping Transport in HCl Doped Conducting Polyaniline.*
M. Ghosh, A. Barman, A. K. Meikap, S. K. De and S. Chatterjee.
Phys. Lett. A, **260** (1999).
6. *Low temperature transport Properties of Cl⁻ doped conducting Polyaniline.*
M. Ghosh, A. Barman, A. K. Meikap, S. K. Chattopadhyay and S. Chatterjee.
J. Phy. and Chem. of Solids **62**, 475 (2001)
7. *Electrical Resistivity and Magnetoresistivity of Protonic acid (H₂SO₄ & HCl) Doped Polyaniline at Low Temperature.*

- M. Ghosh, A. Barman, A. K. Meikap, S. K. De and S. Chatterjee.
J. Applied Polymers. **75**, 1480 (2000)
8. *Resistivity and Magnetoresistance Studies of Nb₃Ir and V₃Sb Compounds*
M. Ghosh, A. Barman, A. Das, A. K. Meikap, S. K. De and S. Chatterjee.
Phys. Stat. Sol. (b) **201**, 153 (1997).
9. *Electrical Transport Properties of LaXO_{3+δ} (X = Mn, Co, Ni)*
A. Barman, M. Ghosh, A. Das, S. K. De and S. Chatterjee.
Ind. J. Phys. **71A**, 517 (1997).
10. *Electrical Transport Properties of Bulk La_{1-x}Ba_xCoO₃ at Low Temperature.*
A. Barman, M. Ghosh, S. K. De and S. Chatterjee
Phys. Lett. A **234**, 384 (1997).
11. *Giant Magnetoresistance in La_{0.8}Sr_{0.2}Fe_xCo_{1-x}O₃ (0.025 ≤ x ≤ 0.3)*
A. Barman, M. Ghosh, S. Biswas, S. K. De and S. Chatterjee.
Appl. Phys. Lett. **71**, 3150 (1997)
12. *Electrical Properties of La_{0.6}Re_{0.1}Ca_{0.3}MnO₃ (Re = Pr, Sm, Gd, Dy) at Low Temperature*
A. Barman, M. Ghosh, S. Biswas, S. K. De and S. Chatterjee.
Solid State Communication **106**, 691 (1998)
13. *Charge Ordered State and Giant Magnetoresistance in Pr_{0.7}R_{0.1}Ca_{0.2}MnO₃ (R = Y, Dy, Gd, Sm, Nd).*
A. Barman, M. Ghosh, S. Biswas, S. K. De and S. Chatterjee.
Letter to the Editor, J. Phys.: Cond. Matter **10**, L199 (1998).
14. *Magnetic and Magnetocaloric Properties of the GMR ceramic La_{0.7-x}Y_xSr_{0.3}MnO₃.*
T. K. Bose, A. Chachine, B. R. Gopal, M. Foldeaki, A. Barman, M. Ghosh, S. K. De and S. Chatterjee.
Cryogenics **38**, 849 (1998).
15. *The study of defects, transport properties and dissipative flux motion in proton irradiated textured polycrystalline Bi₂Sr₂CaCu₂O_{8+δ} and Bi_{1.84}Pb_{0.34}Sr_{1.91}Ca_{2.03}Cu_{3.06}O_{10+δ} superconductors.*

- P. Sen, P.M.G. Nambissan, S.K. Bandyopadhyay, P. Barat, M. Ghosh, A. Barman, P. Mukherjee & S. K. De
J. Physica C, **303**, 108 (1998).
16. *Electrical and Magnetic Properties of $\text{La}_{0.7-x}\text{Y}_x\text{Sr}_{0.3}\text{MnO}_3$ at Low Temperature*
A. Barman, M. Ghosh, S. Biswas, S. K. De and S. Chatterjee.
J. Phys.:Condens. Matter, **10**, 9799, (1998).
17. *Transport Properties of Iron Nitrited Films Prepared by Ion Beam Assisted Deposition.*
S. K. Chattopadhyay, A. K. Meikap, K. Lal, D. Biswas, S. K. Chatterjee, M. Ghosh, K. Baba and R. Hatada.
Solid State Communication **108**, 977, (1998).
18. *A Study on the Transport properties of $\text{Fe}_{67}\text{Co}_{18}\text{B}_{14}\text{Si}$ and $\text{Fe}_{81}\text{B}_{13.5}\text{Si}_{3.5}\text{C}_2$ Metallic Glass Alloys at Low Temperatures.*
K. Lal, A. K. Meikap, S. K. Chattopadhyay, M. Ghosh, A. Barman and S. Chatterjee.
Solid State Communication, **113**, 533 (2000).
19. *Transport Properties of Ti_3Ir Compound at Low Temperature.*
M. Ghosh, A. Barman, A. K. Meikap, S. K. De and S. Chatterjee.
Czech. J. Phys, **50**, 883, (2000).
20. *Low Temperature Electrical Resistance and Magnetoconductance of $\text{Fe}_{39}\text{Ni}_{39}\text{Mo}_4\text{Si}_6\text{B}_{12}$ and $\text{Co}_{58}\text{Ni}_{10}\text{Fe}_5\text{Se}_{11}\text{B}_6$ Metallic Glass Alloys.*
K. Lal, A. K. Meikap, S. K. Chattopadhyay, M. Ghosh, A. Barman and S. Chatterjee.
Czech J. Phys., **51**, 897, (2001).
21. *Dc and Ac Conductivity of Polyaniline-Polyvinyl Alcohol Blend*
P. Dutta, S. Biswas, M. Ghosh, S. K. De and S. Chatterjee.
Synth. Met., **122**, 455, (2001)
22. *Structural features of La-Sr-Fe-Co-O system.*
A. Cziraki, I. Gerocs, M. Koteles, A. Gabris, L. Pogany, I. Bakonyi, Z. Klencsar, A. Vertes, S.K. De, M. Ghosh, A. Barman, S. Biswas, S. Chatterjee, B. Arnold, H.D. Bauer, K. Wetzig, C. Ulhaq-Bouillet, V. Pierron-Bohnes.

- Euro. Phy. J. B **21**, 521 (2001)
23. *AC conductivity study of thin ZnO films prepared by Sputtering Technique.*
K. Lal, A. K. Meikap, S. K. Chattopadhyay, M. Ghosh, and S. K. Chatterjee.
Czech J. Phys., **51**, 897, (2001).
 24. *Low Temp. Transport Properties of TiN thin films Prepared by Ion Beam Assisted deposition*
S. K. Chattopadhyay, K. Lal, A. K. Meikap, M. Ghosh, S. K. Chatterjee, K. Baba
and R. Hatada.
Physica B. **307**, 150, (2001).
 25. *AC conductivity study of Aluminium Nitride Films prepared by Ion beam Assited Deposition.*
K. Lal, A. K. Meikap, S. K. Chattopadhyay, M. Ghosh, S. K. Chatterjee, K. Baba and R.
Hatada
J. Thin solid Film **434**, 264(2003).
 26. *A study on the effect of dopant concentration (HCl) in Transport
Properties of conducting Polyaniline.*
P. Ghosh, A. sarkar, M. Ghosh, A. K. Meikap, S. K. Chattopadhyay, S. K. Chatterjee, P.
Adikari, R. Saha.
Czech J. Phys., **53**, 1219, (2003).
 27. *Low Temp. Transport Properties of TaN thin films Prepared by Ion Beam Assisted Deposition*
S.K. Chattopadhyay, A.K. Meikap, K. Lal, S.K. Chatterjee, M. Ghosh, K. Baba and R.
Hatada.
Solid State Communication **131** (2004) 479-484.
 28. *Quadratic Temp. dependence of electron-phonon scattering in disordered $V_{1-x}Pd_x$ Alloys.*
D. Biswas, M. Ghosh, A. K. Meikap, S. K. Chattopadhyay, S. K.
Chatterjee. Solid State Comm., **134**, 223 (2004)
 29. *Alternate and direct current conductivity of conducting polyaniline dispersed with poly vinyl
alcohol and blended with methyl cellulose.*
A. Sarkar, P. Ghosh, M. Ghosh, A. K. Meikap, S. K. Chattopadhyay, S. K.

Chatterjee. J. Appl. Phys. **97**, 113713 (2005).

30. *Electron transport properties of cobalt doped polyaniline.*

P. Ghosh, A. Sarkar, A. K. Meikap, S. K. Chattopadhyay, S. K. Chatterjee, M. Ghosh,

J. Phys. D: Appl. Phys. **39**, 3047 (2006)

Book

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PRESENTATION

1. DAE Solid State Physics Symposium, University of Rajasthan, Jaipur, Dec 27-31, 1994.
2. Materials Research Society of India, Bangalore Chapter: Seventh Annual General Meeting, 1-3 February '96, IISc., Bangalore.
3. Fifteenth National Symposium on Cryogenics, 1996, September 12-14, New Delhi.
4. Materials Research Society of India, Mumbai Chapter: Eighth Annual General Meeting, 11-13 February '96, IISc., Bangalore.
5. Condensed Matter Days at Viswabharati University, West Bengal.
6. Materials Research Society of India, Madras Chapter: Ninth Annual General Meeting, 11- 13 February 1996, IISc., Bangalore.
7. Introduction to Microcontroller USIC, Burdwan University, Burdwan February 2-7, 2004.
8. IAPT - INFOSYS WORKSHOP FOR THE UG PHYSICS TEACHERS, IAPT Eastern Zone, Midnapore College, Midnapore, December 18 - 23, 2004.

RESOURCE PERSON

- Paper setter of Vidyasagar University.
- Paper setter of Midnapur College (Autonomous)
- Paper setter, Head Examiner, Internal and External Examiner of Buardwan University
- Paper setter, Head Examiner, Internal and External Examiner of Buardwan University

MEMBER OF PROFESSIONAL BODIES

- Life member of **The Indian Physical Society (IPS), Kolkata.**
- Life member of **The Indian Physics Teacher's Association (IAPT)**
- Life member of **Paschimbanga Bigan Mancha, Kolkata.**

PERSONAL DETAILS IN BRIEF

Date of Birth : 24-03-1968
Marital Status : Married
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Current Status : Associate Professor
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