

Dr. Amitava Sarkar

Dean Administration (DIATM) & Assistant Professor in Physics
Department of Applied Sciences and Humanities
Ph. 08944875706

Educational Qualification

M.Sc in Physics, North Bengal University (2000). Specialization on Electronics and Radio Physics.

PhD from NIT, Durgapur. **Thesis Title: Study on the low temperature characterization on electron transport properties of conducting polymers.**

Academic and Administrative Experience:

12 Years teaching experience as Assistant Professor in Physics.

Presently in charge of Dean Administration (DIATM).

Area of Specializations:

- 1) Electronics and Radio Physics
- 2) Electron Transport Properties of Conducting Polymers

Projects carried out :

Lock in Amplifier (On Electronics)

Achievements:

- i. Certificate of Appreciation form **UNIFIED COUNCIL**, for the success of the **National level science search examination – 2008.**
- ii. Certificate for **Corner Assistant** in the **children Science Festival – 1998.** Organised by **Paschimbanga Vigyan Mancha.**

Membership:

1. Life membership of “*The Indian Physical Society*”
Membership No. **LM/ 0697**

NCC Certificates:

Regt. No. WBJD/ 89/ 105504

Unit: 10 Bengal Bn NCC

1. NCC ‘A’ Course (Part I & II) certificates – 1991.
2. Combined Annual Training Camp certificates, Held at panagarh , sept. 1990.

List of Publications

1. “Frequency Dependent Resistivity and Magnetoresistivity of Iodine doped Conducting Polyaniline”, - G.Chakraborty, **A. Sarkar**, P. Ghosh, A.K. Meikap and P. Chowdhury, **POLYM. ENG. SCI., 49:910–915, 2009. 2009 Society of Plastics Engineers**
2. “Low Temperature Electrical Transport Properties of Cu⁺² doped Polyaniline”, - G. Chakraborty, P. K. Mandal, **A. Sarkar**, S. Ghatak, P. Ghosh and A. K. Meikap **Third International Conference on Electroactive Polymers: Materials & Devices (ICEP-2008) (2008) P-27**
3. “Frequency Dependent Transport Properties of Cu⁺² doped Polyvinyl Alcohol”, - S. Ghatak, S. Chattaraj, G. Chakraborty, **A. Sarkar**, P. Ghosh and A. K. Meikap, **Third International Conference on Electroactive Polymers: Materials & Devices (ICEP-2008) (2008) P-11**
4. “Electron Transport Properties of Polyaniline with Different Dopants”, - **A. Sarkar**, G. Chakraborty, S. Ghatak, S. Chattopadhyay, P. Ghosh, A. K. Meikap – **3rd International Conference on Electroactive Polymers: Materials and Devices (ICEP – 2008), (2008). P-19**
5. “Electrical transport properties of Iodine doped Conducting Polyaniline”, - **A. Sarkar** et al . **J. Appl. Polymer Science 108(2008) PP 2313 – 2320**
6. “Electric Transport Properties of Oxalic Acid Doped Conducting Polyaniline”, - A K Meikap, P.Ghosh, **A. Sarkar & S. Ghatak** , **International Conference POLYCHAR-16, 2008, Page-83**
7. “Direct and Alternating current conductivity and magnetoconductivity of Oxalic acid doped Polyaniline”, - **A.Sarkar** et al. **Solid state Commun. 143(2007) PP 358-363**
8. “Frequency Dependent Magnetoconductivity and Conductivity Study in Ni-dispersed Silica nanocomposite produced by Sol-Gel Technique”, - **A.Sarkar**, P.Ghosh, S. K. Chattopadhyay, A. K. Meikap, A. Bhattacharyay, S. K. Chatterjee, G. C. Das, S. Mukherjee and M. K. Mitra, **Czech. J. Phys. 55 (2006) pp.201-210.**
9. “Electron Transport properties of Cobalt Doped Polyaniline”; A. Sarkar et al. **J. Phys. D: Appl. Phys. 39 (2006) pp.3047-3052.**
10. “Alternate and Direct Current Conductivity of Conducting Polyaniline Dispersed with Poly Vinyl Alcohol and Blended with Methyl Cellulose”: A. Sarkar et al. **J. Appl. Phys. 97 (2005) pp.113713(1-4).**
11. “A Study on the Magnetoresistance of Ni-dispersed Silica Nanocomposite”, - S.Ghatak, S.K.Chattopadhyay, A.K.Meikap, **A.Sarkar** and S.K.Chatterjee, **ICAMDD- 2005, (2005), Page-79**
12. “A Study on Hall Voltage and Electrical Resistivity of Doped Conducting Polyaniline”: **A. Sarkar** et al. **Czech. J. Phys. 53 (2003) pp. 1219 – 1227.**

List of Conference Papers

1. “Electric Transport Properties of Oxalic Acid Doped Conducting Polyaniline”, - A K Meikap, P.Ghosh, **A. Sarkar** & S. Ghatak , **International Conference POLYCHAR-16, 2008, Page-83**
2. “Low Temperature Electrical Transport Properties of Cu⁺² doped Polyaniline”, - G. Chakraborty, P. K. Mandal, **A. Sarkar**, S. Ghatak, P. Ghosh and A. K. Meikap **Third International Conference on Electroactive Polymers: Materials & Devices (ICEP-2008) (2008) P-27**
3. “Frequency Dependent Transport Properties of Cu⁺² doped Polyvinyl Alcohol”, - S. Ghatak, S. Chattaraj, G. Chakraborty, **A. Sarkar**, P. Ghosh and A. K. Meikap, **Third International Conference on Electroactive Polymers: Materials & Devices (ICEP-2008) (2008) P-11**
4. “Electron Transport Properties of Polyaniline with Different Dopants”, - **A. Sarkar**, G. Chakraborty, S. Ghatak, S. Chattopadhyay, P. Ghosh, A. K. Meikap – **3rd International Conference on Electroactive Polymers: Materials and Devices (ICEP – 2008), (2008). P-19**

List of seminar / Training programme

1. Winter school on “Nanoparticles – science and technology” (MHRD/ AICTE sponsored): January 2009 at NIT, Durgapur, India.

2. Third international conference on “Electroarture polymers: materials & devices” (**oral presentation**): ICEP 2008, - 2008 October 2008 at Jaipur, India.
3. Work shop on “Relevance of physics education in presnt technology scenario”, (**under TEQIP**): January 2008 at NIT, Durgapur, India.
4. Symposium on “Peaceful use of atomic energy” **under Durgapur vishwagandha science society**: December 2007 at CMERI, Durgapur, India.
5. Presentation Of paper “A frequency dependent and dc conductivity study of conducting polyaniline dispersed with polyvinyl alcohol and blended with methyl cellulose”: **MRSI of India** – February 2006 at university at Lucknow, India.
6. Short term course on “Material property and characterization”, (**MPC - 06**) – April 2206 at NIT, Durgapur, India.
7. Seminar on “Application of high resolution –x ray powder diffractometry in materials science”, - January 2006, at India **association of cultivation of science (IACS)** Jadavpur, Kolkata, India.
8. Seminar cum workshop on “Diversified aspect of modern science”, (**under sahodaya school complex**) – june 2004 at DAV model school , Durgapur.
9. Theme symposium on “Materials for light and smart structure”, organized by **materials research society of India (MRSI)** – February 2004 at BHU, Varanasi, India.