



## CV

1. Name : Dr. Dayamoy Bisui, Lieutenant
2. Father's Name: Mothuranath Bisui
3. Address: Katwa Hospital Para, Katwa, Burdwan  
West Bengal M : 8900711208
4. Date of Birth: XXXXXXXXXX
5. Nationality : Indian
6. Religion: Hindu
7. Academic Qualifications: M. Sc. In Physics, B. Ed., Ph. D
8. Occupation: Teaching
9. Date of Joining: 17.4.1997
10. Name of the Institution: Katwa College, Katwa Burdwan
11. Designation: Associate Professor  
  
Head, Department of Physics
12. Other Qualification: Associate NCC Officer
13. Teaching Experience: 20 years On April 2017
14. Course and Programs Attended : Three RF, One OP
15. Publications: Nine (International Journal)
16. Conference, Seminar, Symposium (Attend ant paper present)

**Eighteen (12National, 2 International and 4 Other)**

## B. ACADEMIC QUALIFICATIONS

Exams Passed 1	Board/Univ ersity 2	Subject 3	Year 4	Division/ Class
S.F. or Equivalent	WBBSE	Ben. Eng. Math Ph. Sc. Li. Sc. Geo. Hist.	1984	First
H.S. or Equivalent	WBCHSE	Ben. Eng. Math Ph. Ch. Bio. Sc.	1986	First
Bachelor's Degree	Burdwan University	Physics Hons. Math and Ch (pass)	1989	Second
Master's Degree	Burdwan University	Physics	1993	First
Others (diploma/ Certificate etc.)	Burdwan University	B. Ed.	1991	First
Research Degree	Ph. D	Physics	2011	

## C. RESEARCH EXPERIENCE AND TRAINING:

Research stage

Title of the work/Thesis

University

**“STUDIES ON THE MAGNETIC BEHAVIOR OF SOME RARE EARTH  
TRIFLUOROMETHANESULFONATE SINGLE CRYSTALS AND THE EFFECTS OF  
CRYSTAL FIELD”**

i) M. Phil. Or equivalent : No

ii) Ph. D/ D. Litt/D. Sc. : Awarded Sep 2011

iii) Post Doctoral :

iv) Publications : Thirteen

(Give a list separately) [: Please see the list of publications](#)

(Xerox copies of title page to be attached)

v) Any other relevant information/ a) Orient. Progm. BU, UGC  
14.3.01-10.4.01

Research Guidance with brief particular: b) Ref. Course Kalyani, UGC  
05.11.01-26.11.01

c) Ref. Course BU, UGC  
24.12.04 -13.01.05

d) Ref. Course BU, UGC  
16.02.07-07.3.07

e) NCC, PRCN-132, OTA, Kamptee, MP 21.7.03-  
18.10.03

f) SUPERINTENDENT, KATWA COLLEGE

BOYS' HOSTEL

g) SOCIAL ACTIVIST

JUDGE IN LOKADALAT, KATWA

**List of publications**  
**Dr. D. Bisui**  
**Department of Physics**

## Katwa College

### 1. Paramagnetic susceptibilities, crystal-field Stark energies and hyperfine properties of $\text{Eu}^{3+}$ in europium trifluoromethanesulfonate nonahydrate

**D. Bisui**<sup>a,b</sup>, K. N. Chattopadhyay<sup>c</sup>, M Ghosh<sup>d</sup>, P. K Chakrabarti<sup>a\*</sup>

<sup>a</sup> Solid State Research Laboratory, Physics Department, Burdwan University, Burdwan 713104, west Bengal, India

<sup>b</sup> Department of Physics, Katwa College, Burdwan 713130, West Bengal, India

<sup>c</sup> Institute of science Education, Burdwan University, 713104, west Bengal, India

<sup>d</sup> Department of Spectroscopy, IACS, Jadavpur, Kolkata 700032, west Bengal, India

**J. Phys. Chem. Solids. 71, 1278 (2010)**

### 2. Magnetic susceptibilities, crystal field Stark energies and hyperfine behavior of $\text{Sm}^{3+}$ in hexagonal single crystals of $\text{Sm}(\text{CF}_3\text{SO}_3)_3 \cdot 9\text{H}_2\text{O}$

J. Mondal, S. Acharya,<sup>1</sup> **D. Bisui**,<sup>1</sup> K. N. Chattopadhyay<sup>2</sup>, M. Ghosh<sup>3</sup>, and P. K. Chakrabarti<sup>1a</sup>

<sup>1</sup>Department of Physics, Solid State Research Laboratory, Burdwan University, Burdwan, West Bengal 713104, India

<sup>2</sup>Institute of Science Education, Burdwan University, Burdwan, West Bengal 713 104, India

<sup>3</sup>Department of Spectroscopy, IACS, Jadavpur, Kolkata 700 032, India

**J. Appl. Phys. 105, 063921 (2009).**

### 3. Crystal field investigation on the magnetic properties of $\text{Yb}^{3+}$ in $\text{Yb}(\text{CF}_3\text{SO}_3)_3 \cdot 9\text{H}_2\text{O}$

**D. Bisui**<sup>1</sup>, K.N. Chattopadhyay<sup>2</sup> and P.K Chakrabarti<sup>1\*</sup>

<sup>1</sup>Solid State Research Laboratory, Physics Department, Burdwan University, Burdwan-713 104, W.B, India.

<sup>2</sup>Institute of Science Education, Burdwan University, Burdwan-713104, India

**J. Phys. Chem. Solids. 70, 59 (2009).**

### 4. Magnetic measurements and crystal field investigation of single crystal of $\text{Tm}^{3+}$ in $\text{Tm}(\text{CF}_3\text{SO}_3)_3 \cdot 9\text{H}_2\text{O}$

**D. Bisui**<sup>1</sup>, K. N. Chattopadhyay<sup>2</sup>, P. K Mallick<sup>1</sup>, M Ghosh<sup>3</sup>, P. K Chakrabarti<sup>1\*</sup>

<sup>1</sup>Department of Physics, Solid State Research Laboratory, Burdwan University, Burdwan, West Bengal 713104, India

<sup>2</sup>Institute of Science Education, Burdwan University, Burdwan, West Bengal 713 104, India

<sup>3</sup>Department of Spectroscopy, IACS, Jadavpur, Kolkata 700 032, India

**J. Appl. Phys. 103, 1 (2008)**

**5. Magnetic measurements and crystal field investigation on single crystal of  $\text{Er}(\text{CF}_3\text{SO}_3)_3 \cdot 9\text{H}_2\text{O}$**

**D. Bisui**<sup>a</sup>, K.N. Chattopadhyay<sup>b</sup>, P.K. Chakrabarti<sup>a\*</sup>

<sup>a</sup>Solid State Research Laboratory, Department of Physics, Burdwan University, Burdwan 713 104, West Bengal, India

<sup>b</sup>Institute of Science Education, Burdwan University, Burdwan 713 104, West Bengal, India

**J. Magn. Magn. Mater. 320, 553 (2008).**

**6. Magnetic measurements on single crystals of Dysprosium Trifluoromethanesulfonate nonahydrate, effects of crystal field perturbed energy levels**

D, Neogy, P. Paul, K. N. Chattopadhyay, **D. Bisui**

**J. Magn. Magn. Mater. 248, 24 (2002).**

**7. Magnetic measurements on single crystals of HoTFMS and crystal field Investigation**

D, Neogy, P. Paul, K. N. Chattopadhyay, **D. Bisui**

**J. Phys. Chem. Solids. 63, 369 (2002).**

**8. Magnetic susceptibilities of Samarium arsenate: An experimental and theoretical study**

P. K. Chakrabarti, D. Neogy, K. N. Chattopadhyay, **D. Bisui**, B. M. Wanklyn.

**J. Magn. Magn. Mater. 202, 497 (1999).**

**9. Magnetism of Neodymium Trifluoromethanesulfonate and effect of crystal field**

K. N. Chattopadhyay, D. Neogy, D. **D. Bisui**, P. Paul, P. K. Chakrabarti.

**J. Phys. Chem. Solids. 60, 709 (1999).**

**10. Magnetic susceptibilities and crystal field investigations on non-Kramers  $\text{Pr}^{3+}$  in  $\text{Pr}(\text{CF}_3\text{SO}_3)_3 \cdot 9\text{H}_2\text{O}$  (communicated).**

**D. Bisui, K. N. Chattopadhyay and P. K. Chakrabarti.**

**11. Microstructural, magnetic and dielectric properties of chemically synthesized nanoparticles of Co-doped Dy<sub>2</sub>O<sub>3</sub>.**

A. Bandyopadhyay<sup>1</sup>, **D. Bisui**, A.K. Deb, and P. K. Chakrabarti.

Presented in “**Third National Seminar on Recent Trends in Condensed Matter Physics including Laser Physics**” p 61 (2013)” held at Burdwan University, **March 5-7, 2013.**

**12. Magnetic and crystal field investigations on single crystal of Pr<sup>3+</sup>, Eu<sup>3+</sup>, Er<sup>3+</sup>, Tm<sup>3+</sup>, Sm<sup>3+</sup> and Yb<sup>3+</sup> in the crystalline host Trifluoromethanesulfonatohydrates: a comparative study**

**D. Bisui**<sup>1</sup>, J. Mondal, K.N. Chattopadhyay, A.S. Mahapatra, K. Mukhopadhyay, and P.K. Chakrabarti<sup>1\*</sup>

Presented in “**First National Seminar on Recent Trends in Condensed Matter Physics including Laser Physics**” p 33 (2012)” held at Burdwan University, **March 6 and 7, 2012.**

**13. Paramagnetic to ferromagnetic phase transition of Co-doped neodymium oxide nanoparticles prepared by chemical co-precipitation method**

K. Mukhopadhyay, A.S. Mahapatra, S. Modak, **D. Bisui**, A. Bandhu, J. Majhi, K.N. Chattopadhyay and P.K. Chakrabarti<sup>1</sup>

Presented in an “**International Conference on LASER, Material Science and Communication**, p 208 (2011)” held at Burdwan University, **December 6-9, 2011.**

**14. Magnetic, Raman and FTIR studies of some rare earth trifluoromethanesulfonate nonahydrate**

Presented in an “**International Conference on Radiation Physics and its Applications**, p 24 (2010)” held at Burdwan University, **January 16-17, 2010.**

**15. Magnetic and Raman spectroscopic properties of hexagonal single crystals of Eu(CF<sub>3</sub>SO<sub>3</sub>)<sub>3</sub>·9H<sub>2</sub>O**

**D. Bisui**<sup>a,b</sup>, K. N. Chattopadhyay<sup>c</sup>, M Ghosh<sup>d</sup>, P. K Chakrabarti<sup>a\*</sup>

Presented in a “**National Workshop on Radiation Science and Applications, P-12 (2008)**” held at Burdwan University, November 10-12, 2008.

**16. Magnetic behavior of  $Gd^{3+}$  in  $GdAl_3(Bo_3)_4$**

**Proc. of the DAE Solid State Phys. Symp, 52, 1081 (2007).**

**17. Magnetic measurements on Neodymium trifluoromethanesulfonate**

K. N. Chattopadhyay, D. Neogy, P. K. Chakrabarti, **D. Bisui**, and P. Paul

Solid State Research Laboratory, Physics Department, Burdwan University, West Bengal, India  
Proc. Solid state symp. 38C, 119 (1995)

**Proc. Solid state symp. 40C, 135 (1997).**

**18. Magnetic properties of Samarium arsenate: An experimental and theoretical study**

P. K. Chakrabarti, D. Neogy, K. N. Chattopadhyay, **D. Bisui**, B. M. Wanklyn.

Solid State Research Laboratory, Physics Department, Burdwan University, West Bengal, India

**Proc. Solid state symp. 40C, 235 (1997).**

**19. Experimental and theoretical behavior of  $Tm^{3+}$  in  $TmPO_4$  and  $LuPO_4$  and the crystal field investigation**

P. K. Chakrabarti, D. Neogy, K. N. Chattopadhyay, **D. Bisui**, B. M. Wanklyn.

Solid State Research Laboratory, Physics Department, Burdwan University, West Bengal, India

**Proc. Solid state symp. 38C, 119 (1995)**