

## CURRICULUM VITAE

**Name:** PROF.(DR.) NIMAI CHANDRA SAHA

**Father's Name:** Sri Alope Nath Saha

**Date of Birth:** 29.03.1960

**Present Position:** Vice-Chancellor, The University of Burdwan, Burdwan, West Bengal.

**Address (Home):** A-11/322, Kalyani, P.O. & P.S. Kalyani, Dist. Nadia, W.B., Pin. 741235, India.

**Address (Office):** The University of Burdwan, Rajbati, Dist. Burdwan, West Bengal, Pin-713104

**Telephone:** Mob: +919051342474, +919433825702.

**E mail:** [vcbunsaha@gmail.com](mailto:vcbunsaha@gmail.com), [mr.nsaha@rediffmail.com](mailto:mr.nsaha@rediffmail.com),

**Mother Tongue:** Bengali.

**Languages Known:** English, Bengali & Hindi

**Nationality:** Indian.

**Caste** Scheduled Caste

**Sex:** Male

**Marital Status** Married

### Education

- Ph.D. in Zoology from University of Kalyani in 1992
- M.Sc. in Zoology (**1st in First Class**) from University of Kalyani in 1982.

### Fields of Specialization under the Subject/Discipline

- Fisheries Sciences
- Aquatic Toxicology
- Ecology and Environmental Sciences

## **Experiences:**

### **TEACHING EXPERIENCE**

- **Undergraduate:** 28 years 09 months 24 days.
- **Postgraduate:** 10 years 03 months 05 days.

### **RESEARCH EXPERIENCE**

- ✓ **Research Experience (including years spent in Ph. D.:** 32 years 4 Months
- ✓ **Research Guiding Experience:** 24 years 4 Months.

### **ADMINISTRATIVE EXPERIENCE**

- ✓ **As Professor or Equivalent Position:** 12 Years

### **EMPLOYMENT & EXPERIENCE (Details):**

- **Vice Chancellor, The University of Burdwan, Burdwan, West Bengal from 1<sup>st</sup> November, 2016 till date.**
- **Professor and Director of Public Instruction, West Bengal Senior Education Service (WBSSES), W.B., Education Directorate, Bikash Bhavan, Government of West Bengal (from 01.01.2015 to 31.10.2016).**
- **Professor, Addl. Director of Public Instruction and Director of Public Instruction as Additional duty (WBSSES) (09.10.2014 to 31.12. 2014)**

- **Professor and Addl. Director of Public Instruction**, (from 23.07.2013 to 8.10.2014), WBSES, W.B., Education Directorate, Bikash Bhavan, Government of West Bengal.
- **Professor and Head**, WBSES, P.G. Dept. of Zoology, Barasat Govt. College (05.10.10 to 22.07.2013).
- **Principal**, WBSES, Krishnagar Govt. College, Krishnagar, Nadia. (14.01.2009 – 04.10.10).
- **Principal**, W.B. Senior Education Service (WBSES), Jhargram Raj College, Jhargram, Paschim Medinipur (11.08.2005 - 13.01.2009).
- **Reader** (WBES) in Presidency College, Kolkata, (18.11.2003-10.08.2005).
- **Principal** at Haringhata Mahavidyalaya, Haringhata, Nadia (01.06.2002 - 17.11.2003)(On Lien).
- **Reader** in Zoology (WBES), in Presidency College, Kolkata, (07.04.1999-31.05.2002).
- **a. Lecturer, b. Asst. Professor c. Reader** in Zoology (WBES) in Jhargram Raj College, Jhargram, Paschim Medinipur (07.07.1989-05.04.1999).
- **Lecturer** in Zoology, (WBES), in A.B.N. Seal College, Cooch Behar,(15.06.1985-03.07.1989).

## **Experience in Academic Administration:**

### **As the Vice Chancellor of The University of Burdwan:**

- ✓ Developing infrastructural facilities for outstanding research activities in all the academic Departments and facilitating grants and financial assistance from different Govt. Organisations like UGC, DST, DBT, ICSSR, CSIR and Govt. Of West Bengal.
- ✓ Starting M. Phil. and Ph.D. Course work.
- ✓ Ensuring pleasant academic atmosphere in the University.
- ✓ Extending adequate drinking water facilities in students' hostels and also in all academic departments.
- ✓ Through Renovation (Sanitary Condition, Sewerage and Hostel boundary) and Beautification of all the 11 Students' and Research Scholars' Hostels.
- ✓ Installation of Vending Machine for Sanitary Napkins for Girl students in all academic departments and Girls' Hostels.
- ✓ Beautification and Preservation of Krishnasayar, a wetland rich in biodiversity.
- ✓ Extending CAS benefits to all eligible teachers of the University.
- ✓ Smooth Publication of UG and PG Results.
- ✓ Smooth conduct of Students Union Election both at the University and also in the affiliating colleges across the 4 districts of West Bengal.

**As Director of Public Instruction and Additional Director of Public Instruction, Dept. of Higher Education, Govt. of West Bengal (WBSES):**

- ✓ Efficiently handling of all Service related matters (like Joining, Pay Fixation, CAS, Pension of all Government and Government aided colleges).
- ✓ Played instrumental role in establishment of 31 new Government Colleges and 15 Government Aided Colleges across West Bengal.
- ✓ Coordinating College level sports activities in all the colleges of West Bengal.
- ✓ Acted as West Bengal State Liaison Officer of NSS.
- ✓ Administrator, Institute of Historical Studies.
- ✓ Active Participation in Policy and Decision making in all state aided affiliating universities in West Bengal.
- ✓ Coordinated State Sports Meet involving all the colleges of West Bengal.
- ✓ Coordinated all different activities of N.S.S. throughout the State of West Bengal.
- ✓ Acted as a Subject Expert in different Selection Committees of the Public Service Commission of West Bengal.
- ✓ Acted as resource person in the Public Service Commission, Govt. of West Bengal.
- ✓ Acted as Govt. Nominee in various selection Committees in Public Service Commission, West Bengal.

**As Professor and Head (WBSES):**

- ✓ Introduction of Semester and CBCS System at PG Level
- ✓ Framing and Modernization of PG Syllabus
- ✓ Playing instrumental role in having and maintaining Academic Autonomy for the PG Courses

- ✓ Chairperson of PG Board of Studies, Moderation and all other committees of the Department

#### **As Principal (WBSSES) :**

- ✓ Introduction of Different PG Courses at Jhargram Raj College and Krishnagar Government College
- ✓ Took Leadership Role during NAAC Accreditation of Jhargram Raj College
- ✓ Took Leadership Role in achieving College with Potential for Excellence for Krishnagar Government College
- ✓ Modernisation of the Research Laboratories both at Krishnagar Government College and Jhargram Raj College
- ✓ Organised Several National Level Seminars and Workshops for Teachers and Principals of different colleges of the Country
- ✓ Took active role in bringing Financial Assistance from the different departments of both the Government of West Bengal and Government of India.

#### **Awards and Fellowship Obtained**

- **Merit Certificate for standing First in First Class in M.Sc.** Examination, 1982 conferred by University of Kalyani.
- The Society of Environmental Science has conferred Honorary Certificate of Fellowship of Society of Environmental Sciences (F.S.E.Sc.) on 30.12.2003 for outstanding contribution in the field of Environmental Sciences.
- Dept. of Zoology, Presidency College conferred the Certificate of Excellence for valuable contribution for the academic advancement of the said Dept.

## Research Guidance

- ✓ **4 Scholars** have been awarded Ph.D Degree in different universities.(Kalyani University and West Bengal State University).
- ✓ **8 scholars** have been working for their Ph.D Degree in different universities.
- ✓ Have examined several M.Sc and Ph.D. dissertations of various Universities.

## Research Projects in Progress

- ✓ Principal Investigator of Major DST, W.B. Research Project titled “A research for the modulatory role of some plants of common occurrence in chronic pesticide pollution in aquatic biota”. Sanctioning Memo: 1265(Sanc.)/ST/P/S&T/5G-3/13 dated 30.03.2015.

## BEST ELEVEN (11) PUBLISHED PAPERS

1. Neuroprotective Efficacy of Mitochondrial Antioxidant MitoQ in Suppressing Peroxynitrite-Mediated Mitochondrial Dysfunction Inflicted by Lead Toxicity in the Rat Brain,  
**Journal:** *Neurotoxicity Research* January 2017
2. Phenotypic and molecular characterization of bubble eye gold fish pathogenic Ampicillin resistant *Bacillus* sp. (GFI),  
**Journal:** *International Journal of Pharma and BioSciences* (Elsevier), (ISSN No. 0975-6299,IF- 2.958(Indexed in Elsevier Bibliographic Database- Scopus& EMBASE)

3. Controlled breeding of Asian catfish *Clarias batrachus* using pituitary gland extracts and ovaprim at different temperatures, latency periods and their early development. **Journal:** \*Journal of Aquaculture Research and Development,( ISSN No. 2155-9546 Index Copernicus Value: 5.2 \*)
4. Effects of Lead on Oxidative stress, Na<sup>+</sup> K<sup>+</sup> ATPase and mitochondrial electron transport chain activity of the brain of *Clarias batrachus*. **Journal:** \*Bull Environ Contam Toxicol (Springer-Verlag, New York), (ISSN No. 0007-4861(print), 1432-0800 (online) IF-1.139)
5. Chromium III Exposure inhibits brain Na<sup>+</sup> K<sup>+</sup> ATPase activity of *Clarias batrachus* involving lipid peroxidation and deficient mitochondrial electron transport chain activity. **Journal:** \*Bull Environ Contam Toxicol (Springer-Verlag, New York), (ISSN No. 0007-4861(print), 1432-0800 (online) IF-1.139)
6. Comparative toxicity of three organic acids to freshwater organisms & their impacts on aquatic ecosystem. **Journal:** \*Human and Ecological Risk Assessment (Taylor and Francis), (ISSN No. 1080-7039,IF – 1.486)
7. Toxicity of Methanol to fish, crustacean, Oligochaete worm and aquatic ecosystem. International Journal of Toxicology. **Journal:** \*International Journal of Toxicology (American College of Toxicology),( ISSN No. 1091-5818, IF – 1.382)
8. Effects of aniline-an aromatic amine to some fresh water organisms. **Journal:** \*Ecotoxicology (Springer), (ISSN No. 0963-9292, IF- 2.71)



9. Effect of Thiocyanate to fish, plankton, worm and aquatic ecosystem. **Journal:** \*Bull. Environ. Contam. Toxicol (Springer-Verlag, New York), (ISSN No. 0007-4861, IF- 1.139)
10. Toxicity of phenol to fish and aquatic ecosystem. **Journal:** \*Bull. Environ. Contam. Toxicol (Springer-Verlag, New York), (ISSN No. 0007-4861, IF- 1.255)
11. Acute and chronic toxicity of tannic acid and spent bark of Cinchona to Tilapia *Oreochromis mossambicus*. Aquaculture, 145, 119-127. [ISSN No. 0044-8486, Impact Factor- 2.044]. **Journal:** \*Aquaculture (Elsevier)( ISSN No. 0044-8486, IF- 2.3

### **Research Papers Published In National and International Journals**

1. Neuroprotective Efficacy of Mitochondrial Antioxidant MitoQ in Suppressing Peroxynitrite-Mediated Mitochondrial Dysfunction Inflicted by Lead Toxicity in the Rat Brain, **Journal:** *Neurotoxicity Research* January 2017
2. Characterization of Bacillus cereus Symbiotic to Hemi-parasitic Plant Santalum album L. Biotechnology Journal International 17(2): 1-8, 2017; Article no.BJI.29582 Previously known as British Biotechnology Journal ISSN: 2231–2927, NLM ID: 101616695

3. A Study on Acute Toxicity of An Insecticide Triazophos on Zooplankton Cyclops Viridis (Jurine, 1820) Along With The Changes in Their Behaviour GLOBAL JOURNAL FOR RESEARCH ANALYSIS X Volume-5, Issue-11, November - 2016 • ISSN No 2277 - 8160
4. Evaluation of Acute toxicity of Dichlorvos (Nuvan) to freshwater fish, *Oreochromis mossambicus* (W.K.H. Peters, 1852) and their ethological changes(International Educational Scientific Research Journal [IESRJ], 2016, e-ISSN: 2455-295X)
5. Acute toxicity of Triazophos to common carp (*Cyprinus carpio*) fry and their behavioural responses(International Journal PARIPEX- Indian Journal of Research, 2016, ISSN: 2250-1991)
6. Acute toxic effects of Mancozeb to fish *Oreochromis mossambicus* (W. K. H. Peters, 1852) and their behaviour(International Journal of Advanced Research in Biological Sciences, 2016, ISSN: 2348-8069)
7. A study on the acute toxicity of Triazophos to *Branchiura sowerbyi* (Beddard, 1982) and their behavioural responses(International Journal of Scientific Research, 2016, ISSN: 2277 – 8179)
8. Acute Toxicity of Dichlorvos to *Branchiura sowerbyi* (Beddard, 1982) (Global Journal for Research Analysis, 2016, ISSN: 2277 – 8160)
9. Acute toxicity of alpha-cypermethrin to oligochaete worm, *Branchiura sowerbyi* (Beddard, 1982) along with their

behavioural responses(International Journal of Scientific Research, 2015, ISSN: 2277 – 8179)

10. Acute Toxicity of Paper and Pulp Mill Effluents to some Common Indian Freshwater Fauna(International Journal of Scientific Research, 2015, ISSN: 2277- 8179)
11. A Study on the Effects of Pulp and Paper Mill Effluents on the Water Quality and Fish Diversity of Hooghly River for Determination of Its Ecological Health(International Journal of Scientific Research, 2015, ISSN: 2277- 8179)
12. A study on the seasonal fluctuation of water quality and zooplankton diversity in the determination of ecological health of five natural water bodies in West Bengal(Indian Journal of Fundamental and Applied Life Sciences, 2015, ISSN: 2231-6345 (Online)
13. Effect of fly ash pollution on fish diversity at Bhagirathi River in Murshidabad District, West Bengal(Fish, Environment and Human Health, 2015)
14. Acute And Chronic Toxicity of Cadmium to Male *Clarias batrachus* Linn. With Special Reference to Their Haematological Changes(International Journal of Scientific Research, 2015, ISSN: 2277 – 8179)
15. *Phyllanthus amarus* a traditional herb with pharmacological properties: a brief review (Indian Journal of Biology, 2015, ISSN: 2394 – 1391)

16. Phenotypic and molecular characterization of bubble eye gold fish pathogenic Ampicillin resistant *Bacillus* sp. (GFI) (International Journal of Pharma and BioSciences, 2014, ISSN: 0975-6299,)
17. *Andrographis paniculata* a traditional herb with pharmacological properties: A review(Global Journal of Research on Medicinal Plants and Indigenous Medicine, 2014, ISSN:2277-4289)
18. Acute toxicity of cadmium to benthic oligochaete worm, *Branchiura sowerbyi* Beddard, 1982 and juvenile catfish, *Clarias batrachus* Linnaeus, 1758(\*Proceedings of the Zoological Society (Springer), 2014, ISSN:0373-5893)
19. Evaluation of acute toxicity and ethological responses of female *Clarias batrachus* (Linn.) exposed to cadmium(\*Environment and Ecology, 2013, ISSN:0970-0420)
20. Evaluation of acute toxicity levels and ethological responses under tetrachlorocatechol exposure in common carp, *Cyprinus carpio*(\*Proceedings of the Zoological Society, 2013, ISSN:0373-5893)
21. Controlled breeding of Asian catfish *Clarias batrachus* using pituitary gland extracts and ovaprim at different temperatures, latency periods and their early development(\*Journal of Aquaculture Research and Development, 2013, ISSN: 2155-9546)

22. Evaluation of hazardous impact of 2,4,6- Trichlorophenol to walking catfish, *Clarias batrachus* Linnaeus, 1758, (\*Environment & Ecology, 2013, ISSN: 0970-0420)
23. Acute toxicity of 2,4,6- Trichlorophenol to copepod, *Cyclops viridis* and oligochaete worm, *Branchiura sowerbyi*(\*Environment & Ecology, 2012, ISSN: 0970-0420)
24. Effects of Lead on oxidative stress, Na<sup>+</sup> K<sup>+</sup> ATPase and mitochondrial electron transport chain activity of the brain of *Clarias batrachus*(\*Bulletin of Environmental Contamination and Toxicology, 2010, ISSN: 0007-4861(print), 1432-0800 (online)
25. Chromium III Exposure inhibits brain Na<sup>+</sup> K<sup>+</sup> ATPase activity of *Clarias batrachus* involving lipid peroxidation and deficient mitochondrial electron transport chain activity(\*Bulletin of Environmental Contamination and Toxicology 2009, ISSN: 0007-4861 (print), 1432-0800 (online)
26. Oxidative stress induced inhibition of rat brain Na<sup>+</sup> K<sup>+</sup> ATPase exposed to Hg<sup>2+</sup> ions: Involvement of lipid peroxidation and deficient mitochondrial electron transport chain activity. (\*Journal of Environmental Physiology 2008, ISSN 0974-7036)
27. Trypanosome infection and some associated physiological changes in an Indian cat fish, *Clarias batrachus*(\*Indian

Journal of Environment and Ecoplanning 2006, ISSN:0972-1215)

28. Comparative toxicity of three organic acids to freshwater organisms & their impacts on aquatic ecosystem(\*Human and Ecological Risk Assessment 2006, ISSN: 1080-7039)
29. A study of arsenic effect on blood and tissue glucose concentration in a fish model(\*Indian Journal of Environment and Eco planning 2005, ISSN: 0972-1215)
30. Microcytic anaemia in the live fish *Clarias batrachus* following chronic exposure to sodium arsenite in water (\*Journal of Natural History 2005, ISSN:0022-2933)
31. A comparison of erythrocytic micronucleus formation in some live fishes exposed to sodium arsenite in water(\*Journal of Natural History 2005, ISSN: 0022-2933)
32. A new host record of the fish parasite, *Trypanosoma danilewskyi*(Golden Jubilee Commemorative Collections of Research Articles, Presidency College, Kolkata,)
33. Micronucleus test in *Anabas testudineus* exposed to chromium(Golden Jubilee Commemorative Collections of Research Articles, Presidency College, Kolkata,)
33. A study of acute toxicity of ammonia to some fresh water organisms(Golden Jubilee Commemorative Collections of Research Articles, Presidency College, Kolkata,)

34. Micronucleus test in two live fish species exposed to arsenic(Golden Jubilee Commemorative Collections of Research Articles, Presidency College, Kolkata,)
35. Toxicity of Methanol to fish, crustacean, oligochaete worm and aquatic eco system(\*International Journal of Toxicology ISSN: 1091-5818)
36. Effects of aniline-an aromatic amine to some fresh water organisms(\*Ecotoxicology ISSN: 0963-9292)
37. Effect of Thiocyanate to fish, plankton, worm and aquatic ecosystem(\*Bulletin of Environmental Contamination and Toxicology, ISSN: 0007-4861(print), 1432-0800 (online)
38. Toxic effects of quinine factory effluents on tilapia *Oreochromis mossambicus* and aquatic ecosystem (\*The Philippine Journal of Science ISSN : 0031-7683)
39. Toxicity of phenol to fish and aquatic ecosystem(\*Bulletin of Environmental Contamination and Toxicology, ISSN No. 0007-4861(print), 1432-0800 (online)
40. Acute and chronic toxicity of tannic acid and spent bark of Cinchona to Tilapia *Oreochromis mossambicus*(\*Aquaculture, ISSN: 0044-8486)
41. Chemical nature and acute toxicity of quinidine wastes to fish, plankton and worm(\*Proceedings of National Academy of Sciences, India, ISSN: 0369-8203)

#### **Papers Published in Books/Conference Proceedings**

1. Virtual study and virtual laboratory: An effective new mode in imparting education. **Conference Publication:** Virtual study

and virtual laboratory: A boon in distance learning (ISBN: 978-93-82112-22-8)

2. Use of water quality, floral and faunal diversity in the determination of ecological health of four beels of Murshidabad in West Bengal, India. **Conference Publication:** \*Proceedings of National Conference on Challenges in Biodiversity and Resource Management, Department of Zoology, University of Kalyani in collaboration with West Bengal Biodiversity Board. Editor-in-chief:: Prof. P.K. Bandyopadhyay (ISBN:978-81-927762-0-0)
3. A review on the faunal diversity of mangrove ecosystem of the Sunderban, their major threats and conservation strategies. **Conference Publication:** \*Proceedings of National Conference on Challenges in Biodiversity and Resource Management, Department of Zoology, University of Kalyani in collaboration with West Bengal Biodiversity Board Editor-in-chief:: Prof. P.K. Bandyopadhyay (ISBN:978-81-927762-0-0)
4. A report on effective treatment with ciprofloxacin along with vitamin C and E to EUS infected snake head fish *Ophiocephalus gachua* (Hamilton, 1822). **Conference Publication:** \*Proceedings of 22<sup>nd</sup> National Congress of Parasitology, Department of Zoology, University of Kalyani, Kalyani, W.B. Editor-in-chief: Prof. P.K. Bandyopadhyay (ISBN: 978-93-5067-220-4)
5. Effects of temperature and the doses of inducing agents (pituitary gland extract and Ovaprim) on fertilization, hatching rate and hatchlings' survival during induced breeding of air breathing catfish, *Clarias batrachus*. **Conference Publication:**



\*Proceedings of DST (Govt. of India)- Sponsored Sir J. C. Bose Memorial National Symposium on Modern trends in Animal Science Research and Challenges of the day, Department of Zoology and molecular Biology, Presidency University, Kolkata

6. Inhibition of Na<sup>+</sup> K<sup>+</sup> ATPase and mitochondrial electron transport chain activity of mammalian brain by mercury induced oxidative stress. **Conference Publication:** \*Proceedings of the School and Symposium on advanced biological inorganic chemistry (SaBIC-2009), Tata Institute of Fundamental Research, Mumbai 400005 (TIFR)
7. Effect of lead toxicity on oxidative stress Na<sup>+</sup> K<sup>+</sup> ATPase and mitochondrial electron transport chain activity of mammalian brain. **Conference Publication:** \*Proceedings of the School and Symposium on advanced biological inorganic chemistry (SaBIC-2009), Tata Institute of Fundamental Research, Mumbai 400005(TIFR).
8. Micronucleus test on the peripheral erythrocytes of *Oreochromis mossambicus* exposed to liquid wastes of quinidine. **Conference Publication:** \*Proceedings on the Impacts of Environment and Aquaculture, Department of Zoology, University of Kalyani, Kalyani, W.B.(Eds. G.K.Manna and B.B.Jana)

**Published as Abstracts in National & International Seminar (Total: 17)**

- 01.** "A comparative study on phytoremediation of paper and pulp mill effluent by some common aquatic weeds" in International Conference on Aquatic Resources and Sustainable Management organised by Central Calcutta science and Culture Organisation for youth, in 2016 (Abstract No. 65/VII/O, Page No.255).
- 02.** A study on the effects of Alpha –cypermethrin to fish, *Cyprinus carpio* (Linnaeus, 1758) in International Conference on Aquatic Resources and Sustainable Management organised by Central Calcutta science and Culture Organisation for youth, in 2016 (Abstract No. 118/II/P, Page No.150).
- 03.** Studies on acute and chronic toxicity of cadmium to the freshwater snail *Lymnaea acuminata* in International Conference on Aquatic Resources and Sustainable Management organised by Central Calcutta science and Culture Organisation for youth, in 2016 (Abs. No.119/II/O. Page No.139)
- 04.** Study on the acute toxicity of chromium and nickel to freshwater benthic oligochaete worm, *Branchiura sowerbyi* Beddard, 1982 in International Conference on Aquatic Resources and Sustainable Management organised by Central Calcutta science and Culture Organisation for youth, in 2016 (Abs. No 120/II/O, Page 139)
- 05.** Effects of fly ash pollution on fish diversity at Bhagirathi River in Murshidabad District, West Bengal in 24<sup>th</sup> All India Congress of Zoology organised by Dept. of Zoology, University of Kalyani in collaboration with ZSI, Bodh Gaya (Page 55), 2013

- 06.** Effects of a pulp and paper mill effluent on the Hooghly River ecosystem and its fish diversity in Nadia District, West Bengal, India in 24<sup>th</sup> All India Congress of Zoology organised by Dept. of Zoology, University of Kalyani in collaboration with ZSI, Bodh Gaya (Page 153),2013
- 07.** Use of fish diversity as a bioindicator for determining fly ash pollution in Bhagirathi River in the District Murshidabad, West Bengal in National Conference on Challenges in Biodiversity and Resource management organised by Dept. of Zoology, University of Kalyani in collaboration with W.B. Biodiversity Board (Page 30),2013
- 08.** Use of water quality and fish diversity as the indicator of pollution by paper and pulp effluents of the Hooghly River in National Conference on Challenges in Biodiversity and Resource management organised by Dept. of Zoology, University of Kalyani in collaboration with W.B. Biodiversity Board (Page 28),2013
- 09.** A study on the comparative breeding performance of *Anabas testudineus* (Bloch,1792) using piscine pituitary gland extract and Ovaprim as inducing agent in UGC sponsored two day State Level Seminar on Society-Biodiversity Interactions: Exploitation and Ethics organised by Sripat Singh College, Jiaganj, Murshidabad (Page 44),2011
- 10.** Review on the parasites causing diseases in the fishes of Ganga River system (Sundarban region) with reference to histopathological changes and parasitic diversity in UGC sponsored National Level Seminar on rediscovering hundred

years of journey on the field of immunology: present status of immunological research in India organised by Post Graduate Dept. of Zoology, Barasat Govt. College and W.B. State University (Page 08),2011

11. Study on the comparative toxicity of nickel and zinc on the haematological parameters of *Clarias batrachus* in UGC sponsored National Level Seminar on rediscovering hundred years of journey on the field of immunology: present status of immunological research in India (Page 08),2011
12. Pathophysiological studies of freshwater catfish, *Clarias batrachus* (Linn.) exposed to mercury, a toxic fly ash ingredient in Golden Jubilee International Seminar on Researches in Zoology- Basic & Applied. Dept. of Zoology, Univ. of Burdwan organised by Post Graduate Dept. of Zoology, Barasat Govt. College and W.B. State University(Abs. No. FSP01, Page No.41), 2010
13. Oxidative stress induced inhibition of rat brain  $\text{Na}^+\text{K}^+$  ATPase exposed to  $\text{Ni}^{2+}$  ions: involvement of lipid peroxidation & deficient mitochondrial electron transport chain activity in XXI Annual conference & Platinum Jubilee celebration of the Physiological Society of India -International conference on Integrative Physiology: Modern Perspective organised by Physiological Society of India (Abs. No. FC41 , Page No.192),2009
14. Role of lipid peroxidation and mitochondrial electron transport chain on the  $\text{Na}^+\text{K}^+$  ATPase activity in rat brain exposed to  $\text{Ni}^{2+}$  ions in The Journal of Physiological Sciences ,

Proceedings of the XXXV International Congress of Physiological Sciences (IUPS 2009)- Function of the Elements and Integration, Kyoto, Japan, The Physiological Society of Japan (Abs. No. P2PM-13-29, Page No.291), 2009

15. Inhibition of mammalian brain  $\text{Na}^+\text{K}^+$  ATPase exposed to  $\text{Zn}^{2+}$  : Role of lipid peroxidation and mitochondrial electron transport chain activity in The Journal of Physiological Sciences , Proceedings of the XXXV International Congress of Physiological Sciences (IUPS 2009)- Function of the Elements and Integration, Kyoto, Japan, The Physiological Society of Japan (Abs. No. P3PM-13-5, Page No.384),2009
16. Comparative study on the breeding performance & larval survivability of *Anabas testudineus* using pituitary gland extract & ovaprim as inducing agents in 16<sup>th</sup> W.B. State Science & Technology Congress, 28<sup>th</sup> Feb- 1<sup>st</sup> March, 2009, Univ. of Burdwan & Dept. of Science & Tech., Govt. of W.B.(Page No.283),2009
17. Simplified method of induced spawning & larval rearing of tropical air breathing catfish, *Clarias batrachus* in National Seminar on “Molecules to Man”. Feb 24-25, 2005. Dept. of Zoology, Univ. of Burdwan (Page No.64),2005.

#### **Papers presented in Conference, Seminars, Workshops and Symposia:**

1. Studies on acute and chronic toxicity of cadmium to the freshwater snail *Lymnaea acuminata* in International Conference on Aquatic Resources and Sustainable Management organised by Central Calcutta Science and

Culture Organisation for Youth, February 17-19, 2016  
(International level)

2. Effects of a pulp and paper mill effluent on the Hooghly River ecosystem and its fish diversity in Nadia district, West Bengal, India in 24<sup>th</sup> All India Congress of Zoology and National Seminar on Biodiversity and its management for food and environmental security and National Helminthological Congress organised by Department of Zoology, University of Kalyani, November 23-25, 2013 (National Level)
3. Study on the comparative toxicity of Nickel and Zinc on the haematological parameters of *Clarias batrachus* in UGC sponsored National Seminar on Rediscovering 100 years of journey on the field of Immunology: Present status of Immunological Research in India organised by Barasat Govt. College, 19<sup>th</sup>& 20<sup>th</sup> September, 2011 ( National Level)
4. Review on the parasites causing diseases in the fishes of Ganga river system with reference to histopathological changes and parasitic diversity in UGC sponsored National Seminar on Rediscovering 100 years of journey on the field of Immunology: Present status of Immunological Research in India organised by Barasat Govt. College, 19<sup>th</sup>& 20<sup>th</sup> September, 2011 (National level)
5. A study on the comparative breeding performance of *Anabas testudineus* (Bloch,1792) using piscine pituitary gland extract and Ovaprim as inducing agent in UGC sponsored Society-Biodiversity Interaction: Exploitation & Ethics organised by Sripat Singh College, 01 & 02 August, 2011 (State Level)

6. Effects of temperature and the doses of inducing agents(pituitary gland extract and Ovaprim) on fertilization, hatching rate and hatchlings' survival during induced breeding of air breathing cat fish, *Clarias batrachus* In DST sponsored Sir J.C.Bose memorial National Symposium on modern trends in animal science research and challenges of the day Organised by Presidency University,23 -25 March, 2011 (National Level)
7. Use of diversity of fish fauna as an effective bioindicator for determining pollution in Bhagirathi River in Murshidabad, W.B. mainly due to contamination of fly ash of adjoining thermal power plant In Seminar on Biodiversity in India: Perspective, Management & Conservation Organised by Dwijendralal College,26.02.2011 (State Level)
8. Acute toxicity of aniline to fish, plankton & worm In UGC sponsored Seminar on Biochemistry Organised by Kanchrapara College,18.01.03 to 19.01.03 (State Level)
9. Micronucleus test on the peripheral erythrocytes of *Oreochromis mossambicus* exposed to liquid wastes of quinidine In National Symposium on Environmental impacts on animal & aquaculture Organised by K.U.,14.05.88 to 16.05.88 (National level)
10. Acute toxicity of quinine factory effluents on fish & aquatic ecosystem In Seminar on ScienceCongress Organised by 74<sup>th</sup> Session of Science Congress, Bangalore, 03.01.87 to 08.01.87 (National level)

**Seminar organized as Organising Secretary/ Convener/President/ Member**

1. Acted as Joint convener of the UGC sponsored National Seminar on Rediscovering 100 years of journey on the field of Immunology: Present status of Immunological Research in India Organised by Barasat Govt. College on 19<sup>th</sup>& 20<sup>th</sup> September, 2011
2. Acted as President of the UGC sponsored State level Seminar on “Metacognition” Organised by Krishnagar Govt. College & Krishnagar Women’s College on 08.09.10 to 09.09.10
3. Acted as Organising Secretary of the UGC Curriculum implementation at undergraduate level on Environmental studies Organised by Krishnagar Govt. College & K.U.on 26.02.10
4. Acted as Organising Secretary of the Workshop on Application of the Knowledge of Computer in Chemical and Biological Sciences Organised by Jhargram Raj College on 23<sup>rd</sup> and 24<sup>th</sup> March, 2008
5. Acted as Organising Secretary of the Principal’s Workshop on “To Strive and Sustain Quality Administration” Organised by Jhargram Raj College on 4<sup>th</sup> and 5<sup>th</sup> of January, 2008
6. Member of Organising Committee of the National seminar on Natural and anthropogenic hazards on Biodiversity and conservation and biotechnological approach for its remedies Organised by Vidyasagar College on 9<sup>th</sup>&10th December, 2011
7. Member of Organising committee of the Seminar on 22<sup>nd</sup> National Congress of Parasitology, Department of Zoology, University of Kalyani, Kalyani, W.B. Organised by Dept. of Zoology, K.U. on 30.10.10 to 01.11.10

**Invited Lectures and Chairmanships at National or International Conference/Seminar etc.**



1. Acted as Resource Person in the National Seminar on “Genomics: Molecular to Ecosystem Level” organized by The Asiatic Society, Kolkata.
2. Acted as Resource Person in the National Seminar on Biodiversity: Exploration, Exploitation, Conservation & Management – Vision & Mission organised by Barasat Government College in 2016.
3. Acted as Chairperson, West Bengal Science Congress, 2016 organised at Bankura Christian College.
4. Acted as Resource Person in the National Seminar on the Impact of Climate Change, Biodiversity and good plant protection practices on crop productivity. Organised by BCKVV in 2016.
5. Acted as Resource Person in the National Seminar on ‘From Molecules to Ecosystem – A Zoological Perspective’ organised by Rahora Ramkrishna Mission College in 2016.
6. Acted as Resource Person in National Level UGC sponsored Seminar on Climate Change: Issues and Challenges to Society, Environment and Development. Organised by Haringhata Mahavidyalaya in 2016.
7. Acted as Resource Person in National Level 1<sup>st</sup> Annual One Day Seminar of Indian Association of Biomedical Scientists jointly organised by IABMS, Eastern Regional Chapter and Rammohan College, Kolkata in 2016.
8. Acted as Resource Person in National Seminar on challenges and opportunities of university administration in the 21st century organised by Netaji Subhas Open University, Kolkata in 2015.

9. Invited Lecture as Resource person on 22.11.2015 in a National Seminar Organised by A.P.C. Roy College. **Title** :*Determination of LC50 or LD50 for a particular toxicant in the workshop entitled Contemporary Laboratory and Field Experiments in Zoology*
10. Invited Lecture as Resource person on 20.11.2015 in a National Seminar Organised by Nakshalbari College **Title** :*Environment and Human Health* on DST sponsored one day seminar on Environment and Human Health
11. Invited Lecture as Resource Person on 09.09.2015 in a National seminar Organised by Krishnath College **Title** :*Study on the changes in Biodiversity of Beels of Berhampore, Murshidabad, West Bengal due to pollution* on one day seminar on Role of IQAC in Fostering Environmental Consciousness.
12. Invited Lecture as Resource Person in 2014 in a National Seminar Organised by NSOU **Title** :*Virtual Learning on Biological Dissection*
13. Chairperson, 2013-14 in a National Seminar Organised by Dept. of Zoology, B.U. **Title**: 21<sup>st</sup> West Bengal Science & Technology Congress.
14. Chairperson, 2013-14 in a National Seminar Organised by Dept. of Zoology, K.U. **Title** :24<sup>th</sup> All India Congress of Zoology and National Seminar on Biodiversity and its management for food and environmental security and National Helminthological Congress
15. Delivered a Lecture on Use of water quality, floral and faunal diversity in the determination of ecological health of four beels of Murshidabad in West Bengal, India. 2012-13 Organised by

Dept. of Zoology, K.U. **In** National Conference on Challenges in Biodiversity and Resource Management

- 16.** Delivered a Lecture on Hands on training for estimation of different limnological parameters and discussion on the causes for their deviations from optimum level. 2011-12 **In a** Workshop on analysis of limnological parameters under DBT star College Programme Organised by Presidency University
- 17.** Delivered a Lecture on Fish parasites and its control. 2010-11 in a Seminar on 22<sup>nd</sup> National Congress of Parasitology Organised by Dept. of Zoology, K.U.
- 18.** Delivered a Lecture on Conservation of fish fauna with special reference to aqua sanctuary. 2010-11 In a Seminar on Conservation of fish fauna with special reference to aqua sanctuary Organised by Office of the Assistant Director of Fisheries, Murshidabad
- 19.** Delivered a Lecture on Production enhancement through beel fishery. 2010-11 **In a** Local Seminar on Production enhancement through beel fishery Organised by Nabindoba Ramanachandpur Fishermen Cooperative Society Limited.
- 20.** Delivered a Lecture on Local Seminar on Pisciculture & Fishermen Community Organised by Cossimbazar Manindranagar Colony Fishermen Cooperative Society Limited
- 21.** Delivered a Lecture in Training Programme on Pisciculture and ornamental fish culture and fisheries management International Centre of Ecological Engineering, K.U.

### **Membership of Scientific Journals**

- 1.** Life member of “Indian Journal of Environment and Ecoplanning”, Society of Environmental Science.

2. Life member of “Science and Culture”, Indian Science News Association.
3. Life member of “Proceedings of the Zoological Society”, The Zoological Society, Kolkata, India.

### **Different Professional Responsibilities or Assignments**

1. Key person for implementing policies, plans and programmes of the Department of Higher Education, Govt. of West Bengal since October, 2014.
2. Member of **Executive Council/Syndicate and Court/Senate** of all State aided Universities of West Bengal.
3. Member of Asiatic Society, Kolkata.
4. Acted as Member of **U. G. Board of Studies**, Kalyani University.
5. Acted as Member of **Board of Studies for Post graduate Course** in Zoology, Bidhannagar College.
6. Acted as Member of **Board of Studies for Post graduate Course** in Zoology, Vidyasagar College.
7. Acted as Member of **IQAC** of Gokhale Memorial Girls’ College, Kolkata.
8. Acted as Member of Faculty Council for **Postgraduate Study**, University of Kalyani (2009-10).
9. Acted as **Chairperson of all academic & administrative bodies** of Jhargram Raj College (August, 2005 to Dec. 2008).

10. Acted as **Chairperson of all academic & administrative bodies** of Krishnagar Govt. College (Jan, 2009 to Oct. 2010).
11. Acted as **Chairperson of all academic & administrative bodies** of Haringhata Mahavidyalaya (June, 2002 to 16 Nov. 2003).
12. Acted as the **Resouce Person during Interface meeting** for the selection of Krishnagar Govt. College as **College with Potential for Excellence (CPE)** at UGC Office, New Delhi
13. Acted as the **Chairperson of the IQAC** of Krishnagar Govt. College for facing interface meeting at Delhi.
14. Performed Key Role during **NAAC accreditation** of Jhargram Raj College.
15. Acted as the Member of **P.G. Council**, Vidyasagar University (During the Academic Year 2007-08, 2008-09).
16. Acted as Resource Person of **Selection Committee formed by P.S.C, WB** during the interview of Govt. College teachers.
17. Acted as **guide for dissertation** work of **DODL** (Directorate of Open and Distance Learning), KU.
18. Acting as member (**as a Govt. Nominee**) of several (more than 100) **Selection Committee** formed for career advancement of College teachers through **CAS**.
19. More than hundred (100) assignments were performed as **Head Examiner/ Paper setter/ moderator** (both for Theory & Practical papers) in the Examinations of B.Sc. (Honours& General) & M.Sc. in Zoology and fisheries sciences of various Colleges & Universities of India.
20. Acted as Chairperson of **P.G. Executive Council**, Barasat Govt. College (05.10. 2010-23.07.2013).

21. **Several National, State level Seminars, Symposia and Workshop** for the academic and administrative development of the Colleges/ University are being organized as Principal/Professor/ADPI/DPI/Vice Chancellor

**Different Literary Activities:**

1. Panel Expert for evaluation of R & D PROJECTS submitted on Science & Technology, Dept. of Science and Technology, W.B., 2011, 2012
2. Panel Reviewer of the Journal entitled “JOURNAL OF ENVIRONMENTAL PHYSIOLOGY” (ISSN: 0974-7036), Society for Environmental Physiology of India, 2011
3. Editor/Chief Advisor of the College level Journal “JOURNAL OF SCIENCE”, Vol. 1, Jhargram Raj College, 2005
4. Editor/Chief Advisor of the College level Journal “JOURNAL OF HUMANITIES & SOCIAL SCIENCES”, Vol. 1, Jhargram Raj College, 2006
5. Editorial Assistant of the PROCEEDINGS OF 22<sup>ND</sup> NATIONAL CONGRESS OF PARASITOLOGY, Dept. Of Zoology, University of Kalyani 30.10.2010 to 01.11.2010
6. Executive Editor of the Academic Journal “AUREOLE”, Vol 4, Barasat Govt. College, 2013