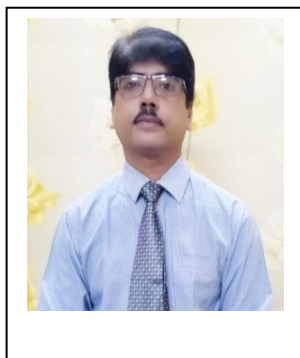


**ACADEMIC PROFILE**



**DR. SUSANTA NATH**

ASSOCIATE PROFESSOR OF ZOOLOGY (W.B.E.S.)  
M.Sc. (Zoology), Ph.D. (Zoology) MSc (Ecol. & Environ.), B.Ed.  
Email: [nathswbes@gmail.com](mailto:nathswbes@gmail.com), [nathsusanta2012@gmail.com](mailto:nathsusanta2012@gmail.com)

**Specialization:** Ecology, Haematology & Toxicology

**Date of joining in this college:** 02.03.2016

**Total teaching experience in college level:** 27 years both UG & PG.

**Area of research:** Ecology, Toxicology of insects and fish.

**Topic of Ph.D. thesis:** Bio-ecology of grasshopper.

**Research guidance:** PhD awarded 01, M Phil awarded 02.

**Research projects completed:**

| Name of the agency from which the assistance was approved | Title of the project for which assistance was approved.                                                                        | Completed/ Ongoing |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|--------------------|
| West Bengal State DST Major Project                       | Non- biting midges farming and its applications potential nutritious food in fish cultivation.                                 | Completed          |
| UGC Major Project                                         | Effect of Heavy metals on short horned grasshopper, in relation to introduce these insects as bioindicator.                    | Completed          |
| UGC Minor project                                         | Comparative study of Biodiversity of grasshoppers (Acridids) in the Industrial polluted area and Adjoining forest of Durgapur. | Completed          |
| UGC Minor Project                                         | Study of Biodiversity of grasshoppers (Acridids) in the                                                                        | Completed          |

## **GOVERNMENT GENERAL DEGREE COLLEGE, SINGUR**

|                       |                                                                                                                              |           |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------|-----------|
|                       | hill region of Darjeeling.                                                                                                   |           |
| West Bengal State DST | Impact of pollution on the Biodiversity of grasshoppers (Acridids) and its effect on agriculture in the Darjeeling District. | Completed |

### **LIST OF PUBLICATIONS JOURNALS:**

**Nath Susanta.** 2026. Consequences of environmental factors on the population distribution of *Acrida exaltata* (Walker), a pest in different ecosystems. *Entomon* 51(1): 19-26. (Scopus)  
<https://doi.org/10.33307/entomon.v51i1.1609>

Podder, R., **Nath, Susanta**, Modak, B.K. and Weltje, L. 2022. Tube length of Chironomid larvae as an indicator for dissolved oxygen in water bodies. *Scientific Reports* (Nature). 12: 19971.  
<https://doi.org/10.1038/s41598-022-23953-9> IF: 4.997. (Scopus)

**Nath, Susanta** and Samanta Shreya. 2024. Chironomid farming in consideration of various physicochemical parameters and reuse of condensate water. *Journal of Applied Entomology*, 148 (7): 780-789. <https://doi.org/10.1111/jen.13270>. IF: 1.9. (Scopus)

Majhi, R. ., Khatun, J. ., Sarkar, T. ., & **Nath, S.** 2024. The influence of physicochemical parameters on diversity and distribution of zooplankton in three ponds of Gangetic plain in India. *Mongolian Journal of Biological Sciences*, 22(2), 35–45. <https://doi.org/10.22353/mjbs.2024.22.11>

**Nath, S.** 2023. Mustard Oil Cake (MOC) an Organic Fertilizer, its Toxicity and Response of *Channa punctatus*: A Review. *Journal of Clinical Toxicology*. 13(6): 1-5. doi: 10.35248/2161-0495.23.13.548

**Nath, Susanta**, Samanta, S., Podder R., Weltje, L. and Modak, B.K. 2022. Ex-situ evaluation of Chironomid larvae as a potential supplementary food in aquaculture. *Proceedings of the National Academy of Sciences, India, Section B: Biological Sciences*. 92(4): 801-806.  
<https://doi.org/10.1007/s40011-022-01377-9> IF: 1.2. (Scopus)

Banerjee, D., Chatterjee, S. and **Nath, S.** 2022. Aquatic physicochemical parameters and their possible impact on freshwater bodies. *Applied Ecology and Environmental Sciences* 10(6) : 360-367. Doi: 10.12691/aees-10-6-5.

**Nath Susanta**, Samanta, S. and Das, S. 2021. Effectiveness of Chironomid larvae in compare to other fish foods on growth parameters and body protein of two economically important fishes. *Alinteri Journal of Agriculture Sciences*. 36(2): 147-155. (WoS 2021).

Podder, R., **Nath Susanta**, Modak, B.K. 2020. An approach to measure the biomass of Bloodworms (Diptera : Chironomidae) in different nutrients. *Proceedings of the Zoological Society*. 73(1) : 95-98. <http://doi.org/10.1007/s12595-019-00301-w> (Scopus)

**Nath, S.** 2020. Chironomid Farming is the Future of Tomorrow's Fish Production Industries. (Editorial) *International Journal of Zoology and Animal Biology* 3(6): 1-2. ISSN: 2639-216X. DOI: [10.23880/izab-16000253](https://doi.org/10.23880/izab-16000253).

**Nath, S.** and Sardar, A. 2020. Response of a Freshwater Fish Exposed to a Single Dose of Biofertilizer. *International Journal of Zoology and Animal Biology* 3(1): 1-5. ISSN: 2639-216X. DOI: 10.23880/izab-16000205.

**Nath, S.**, Rakshit, P. and Matozzo, V. 2018. Effects of Mustard oil cake on liver proteins of *Channa punctatus* (Bloch). *Interdisciplinary Toxicology*. 11(3): 200-203. H-Index 43. (Date 30.10.19).

Podder, R., **Nath, S.** and Modak, B.K. 2019. An Approach to Measure the Biomass of Bloodworms ((Diptera: Chironomidae) in different Nutrients. *Proceedings of the Zoological Society*. 73(1):95–98 DOI 10.1007/s12595-019-00301-w (online first)01.07.2019.

Podder, R., **Nath, Susanta**, Faggio, C. and Modak, B.K. 2018. A study on the growth and biomass of Chironomus larvae in different food media. *Uttar Pradesh Journal of Zoology*. 38(1):20-25. (WoS)

**Nath, S.**, Matozzo, V., Bhandari, D and Faggio, C. 2018. Growth and liver histology of *Channa punctatus* exposed to a common biofertilizer. *Natural Product Research*. 33(11): 1591- 1598. <https://doi.org/10.1080/14786419.2018.1428586>. Taylor & Francis. (IF 1.8)(UGC List: Journal No. 37319) (WoS& Scopus) date 28.01.2018.

**Susanta Nath**, Chiroprotim Saha, Himadri Sekhar Bhowmick and Valerio Matozzo. 2016. Effects of Organic Fertilizer on Hepatic Lipid Levels and Cholinesterase Activity in *Channa punctatus* (Bloch). *Philippines Journal of Science* 145(4)413-418. (UGC List 29338) (Scopus) date 01.12.2016

**Nath, S.**, Rai, A., Bhattacharya, S. and Saha, A. 2010. The correlation of meteorological with grasshopper population in Darjeeling. *Journal of Asia- Pacific Entomology (Elsevier)*. 13: 375-378. Doi:10.1016/j.aspen.2010.05.001 (IF:0.875) (UGC List WoS& Scopus 19291) date 03.05.2010.

Roy, B. and **Nath, S.** 2012. Some haematological investigations on *Oreochromis nilotica* (Trewavas) following exposure to Thiamethoxam. *Acta Zoologica Lituanica* 21(4) : 301-305. DOI: 10.2478/v10043-011-0036-9 (now available on Taylor & Francis Published 23 Jul, 2012). (UGC List 1049 Scopus) date 23.07.2012.

**Susanta Nath**. 2015. Relation between water quality and protein content of Chironomid larvae. *Proc. Zool Soc. (Springer)*. 68(2) :227-230. DOI: 10.1007/s12595-014-0125-4. Date 11 September 2014.

**S. Nath**, B K Modak, R Podder, 2015, Seasonal Trend of Body Protein and Growth of Chironomid Larvae. *Proc Zool Soc. (Springer)* DOI 10.1007/s12595-015-0146-7. Date 13 May 2015

**Nath, Susanta** and Rai, A. 2010. Study of life table of a pest grasshopper in laboratory conditions. *Romanian Journal of Biology-Zoology*. 55(2): 159-165. (UGC SL.No.434, Journal No.64096) date: 14.09.2010.

**Nath, Susanta**, Prosad, Sonali and Matozzo, Valerio. 2017. Effects of Mustard Oil Cake on Haematological Parameters of the Freshwater Fish *Channa punctatus*. *International Journal of Applied Environmental Sciences*. 12(5):839-848.. (UGC List: 2561 before 2<sup>nd</sup> May 2018) (ICI)01.05.2017.

**Nath, Susanta**, Mukherjee Rupa, Bose Samprita Bose and Ghosh Sangita. 2017. A short period assessment of water physicochemical characteristics of Hooghly river, West Bengal,

India. *ISCA International Research Journal of Environment Sciences* 6(2): 1-12. (UGC List: Journal No. 45402) (SIS, Google Scholar) date: 01.02.2017.

**Susanta Nath**, Pritam Paul, Santanu Mondal and Rahul Podder. 2018. Response of an Ornamental Fish exposed to Acephate and Carbendazim. *ISCA International Research Journal of Biological Science*. 7(9), 1-5. (UGC List: Journal No. 42769) ISSN 2278-3202. Date : 01.09.2018.

Rahul Podder, **Susanta Nath**, Caterina Faggio and Biplob Kumar Modak. 2018. A study on the growth and biomass of chironomus larvae in different food media. *Uttar Pradesh Journal of Zoology*. 38(01) :20-25. (UGC List: Journal No. 35497) ISSN 0256-971X. date : 14.06.2018.

Rahul Podder, **Susanta Nath**, Biplob Kumar Modak and Sudipta Das. 2018. Response of *Chironomus striatopennis* Larvae Exposed to Three Heavy Metals. *Asian Journal of Biology*. 5(4): 1-5. (UGC List: Journal No. 63718, eISSN No. 24567124). date : 25.04.2018.

Rahul Podder, **Susanta Nath** and Biplob Kumar Modak 2017. Static Acute Bioassay on the *Chironomus striatopennis*, Exposed to Arsenic Solution. *Journal of Eco- Biology* 34 (1) : 205-212. (UGC List : Journal No. 7169) (ICI). Date : 01.06.2017.

**Nath, Susanta**. 2017. Mortality of a common Indian grasshopper exposed to dietary Arsenic. *Entomon*. 42(2):173-176. (UGC List 11039) (ICI) date: 30.06.2017.

Biswas, Sudhan K., **Nath, Susanta**, Panigrahi, A.K. and Guha, B. 2016. A Study on the Threats to the Gangetic Dolphin. *Indian Journal of Biology* 3(1) : 77-80. (Review Article) DOI: <http://dx.doi.org/10.21088/IJB.2394.1391.3116.11> (UGC List 63682). Date : 01.01.2016.

**Nath, Susanta**, Modok, Biplob Kumar and Podder Rahul. 2016. Effect of Arsenic on Amino Acid level in a common Indian Grasshopper. *Journal of environment and Sociobiology*. 13(1): 109-112. (UGC List 20384 ICI). Date : 01.06.2016.

Chakrabarty, Paulami and **Nath, Susanta**. 2015. Analyses of Some Physicochemical Parameters of a Tributary of Ganga, West Bengal, India. *Global Journal of Bio-science and Biotechnology*. 4(1) : 185-190. (GIF: 0.487) (UGC LIST : 63319 Society for Science and Nature ISSN : 22788891. date : 01.01.2015.

**Nath Susanta** and Barnali Roy. 2015. Life Table and Survivorship of a Short Horned Grasshopper Exposed to Arsenic Compound under Laboratory Conditions. *Journal of Biological & Environmental Sciences, Uludag University* 9(26) : 81-91. Date : 01.07.2015. WoS 09.12.2023.

**Nath, Susanta**, Roy, Barnali, Bose, Sucharita and Podder, Rahul. 2015. Impact of Arsenic on the Cholinesterase Activity of Grasshopper. *American Eurasian Journal of Toxicological Sciences*. 7(3):173-176. DOI: 10.5829/idosi.ajejts.2015.7.3.9530. (GIF: 0.312). DATE 01.07.2015.

Soma Maitra and **Susanta Nath**. 2014. Toxic Impacts of Urea on the Hematological Parameters of Air Breathing Fish *Heteropneustes fossilis* (Bloch) *American-Eurasian J. Agric. & Environ. Sci.*, 14 (4): 336-342. DOI: 10.5829/idosi.ajejaes.2014.14.04.84237 .publon. Date : 01.08.2014.

**S. Nath** and S. Bose. 2013. Toxicological studies of arsenic on the growth of a short horned grasshopper. *American Eurasian J. Toxicol. Sc.* 4(4) :184-187. DOI: 10.5829/idosi.ajejts.2012.4.4.66135. Date : 01.11.2013.

Duttagupta, Anup and **Nath, Susanta**. 2013. A Study on Population and Developmental patterns of *Mylabris phalerata*(pallas) in field and laboratory conditions. ***International Journal of Science and Nature*. 4 (4) : 304-305. Date : 01.12.2013.**Society for Science and Nature.

**Nath, S.** and Sarkar, B. 2013. A Study of Behaviour Pattern of Domestic Cats for Three Generations. ***Asian Journal of Experimental Biological Sciences* 4(2) : 315-317. Date : 01.05.2013. ISSN:0975-5845.**

**Nath, S.** 2012. Report of a grasshopper from Darjeeling hills. ***Insect Environment*. 17 (4) : 153-154.** (short communication) ISSN : 0975-1963.(Insect Study & Conservation Network) Commonwealth Abstract. Date : 01.01.2012.

Bose, S., **Nath, S.** and Sahana, S. S. 2011. Toxic impact of Thiamethoxam on the growth performance and liver protein concentration of a fresh water fish *Oreochromis nilotica* (Trewavas). ***Indian Journal of Fundamental and Applied Life Science*. 1(4) : 274-280. Date: 01.12.2011. Published : Centre for Info Bio Technology.**

Nath, S. 2012. Report of a grasshopper from Darjeeling hills. ***Insect Environment*. 17 (4) : 153-154.** (short communication) ISSN : 0975-1963.(Insect Study & Conservation Network) Commonwealth Abstract. Date : 01.01.2012.

3.Bose, S., Nath, S. and Sahana, S. S. 2011. Toxic impact of Thiamethoxam on the growth performance and liver protein concentration of a fresh water fish *Oreochromis nilotica* (Trewavas). ***Indian Journal of Fundamental and Applied Life Science*. 1(4) : 274-280. Date: 01.12.2011. Published : Centre for Info Bio Technology.**

**Nath, Susanta** and Roy, Barnali.2014. Study of the Life Table of *Oxyavelox*(Fabricius, 1787) induced by Arsenic compound. ***Scholars Academic Journal of Biosciences*. 2(12C) : 973-977. (NCBI PubMed Journals list (Journal ID 42340)(UGC List4295) date : 15.04.2015.**

Rajib, Das, Karmakar, Paramita and **Nath, Susanta**. 2014. Studies on Physicochemical Parameters to Assess the Water Quality at selected Sites of River Hooghly, a Tributary of the Ganges, West Bengal, India. ***Asian Journal of Water, Environment and Pollution* 11(2) : 81-88. [https://doi.org/10.3233/AJW-2014-11\\_2\\_10](https://doi.org/10.3233/AJW-2014-11_2_10) (UGC List 4017 Scopus). Date: 01.06.2014.**

Biswas, T. and **Nath, Susanta** 2014. Effect of Urea on Liver Protein of *Heteropneustes fossilis* (Bloch).***Indian Journal of Biology*. 1(2) : 73-76. ISSN 2394-1391. (UGC List 63682) date : 01.07.2014.**

**Nath, S.** and M. Bhowmik.2013.Levels of toxic metals in edible fish from a wetland of India. ***International Journal of Environmental Sciences* 3(5): 1509-1515.DOI:10.6088/ijes.2013030500021.(UGC List 16807 ICI) date : 01.04.2013.**

Nath, Susanta, Bose, Sucharita and Roy, Barnali. 2013. Effect of Arsenic on Protein of a Short Horned Grasshopper, *Oxya velox* (Fabricius, 1787). ***Mongolian Journal of Biological Sciences* 11 (1-2) : 59-61. Date : 09.11.2013.**

**Nath, S,** Bose, S. and Kundu, I. 2012. Effects of Thiamethoxam on Liver Protein of *Oreochromis niloticus*(Trewavas). ***Proc Zool. Soc.* 65(2) : 118-120. DOI 10.1007/s12595-012-0037-0 (Springer)date : 20.07.2012.**

R. Ghosh and S. **Nath**. 2012. Physico-chemical and biological parameters of water of semi urban ponds at Konnagar, West Bengal. *Journal of Ecobiology* 31(4) : 149-160.(UGC List 20177 ICI) date : 01.10.2012.

**Nath, S.**, Bose, S.and Roy, B. 2012. Effect of Arsen on Haemolymph Cells of Short horned grasshopper. *Romanian Journal of Biol-Zool.* 57 (1) : 63-68.(UGC SL.No.434, Journal No.64096) . date : 01.03.2012.

Duttagupta, A. and **Nath, S.** 2011. Food preference of *Mylabris phalerata* Pallas (Meloidae: Coleoptera) in field conditions. *Entomon* 36(1-4) : 1-3 (Published on 2013).(UGC List 11039 ICI). Date :01.12.2011.

**Nath, Susanta**. 2011. Behaviour of kittens of domestic cat. *Journal of Experimental Zoology India.* 14 (2): 537-539. (UGC List 7524 ICI)date : 01.07.2011.

**Nath, S.**, Anand, H. and Haldar, P. 2011. Study of Short Horned Grasshoppers in Relation to Heavy Metals Accumulation. *Journal of Entomological Research.* 35(3): 291-293. (DOI: 10.5958/0974.2015) (UGC List 5160 ,SCIMAGO, Scopus & ICI) date : 01.09.2011.

**Nath, S.** and Dattagupta, A. 2010. Behavioural study of *Mylabris phalerata* meloidae:Coleoptera) in Field and Laboratory conditions. *Proc. Zool. Soc.(Springer).* 63(2): 141-143. DATE: 01.12.2010.

**Nath, S.**, Rai, N., Chhetri, N. and Lepcha, P. 2009. Food preferences of a pest grasshopper, *Atractomorpha crenulata* (Fabr.) (Orthoptera :Acridoidae) from Darjeeling Hill. *Entomon.* 34(2): 111-113. (UGC List 11039) :01.07.2009.

**Nath, S.**, Rai, A., Gurung, K., Das, M., Pradhan, N., Burman, S. and Haldar, P. 2008. Comparison of Heavy metals level in grasses and grasshoppers from Darjeeling Hill. *Journal of Hill Research* 21(2) : 67- 69. (UGC List 20882 ICI) Date : 01.12.2008.

**Nath, Susanta** and Haldar, P. 2005. Effect of Heavy Metals on Population Dynamics of an acridid, *Oedaleus abruptus*. *Journal of environment and Sociobiology* 2 (1 & 2) : 67-70.(UGC List 20384 ICI). Date: 01.07.2005.

**Nath Susanta**, Haldar, P. and Das ,R. 2004. Level of Toxic Metals in Acridids of the Industrial Area and adjoining forest of Durgapur .*Environment & Ecology.* 22(spl.3): 531-532.(UGC List 11056 ICI).Date : 01.07.2004.

**Nath, Susanta** and Haldar, P. 2001. Sex ratio of *Acrida exaltata*(Walker) in different environmental conditions. *Annals of Entomology* 19 (1) :11-12. (UGC List15548 ICI). 01.01.2001.

Haldar, P., Bhandar, K .P. and **Nath , S.** 1995. Observation on food preference of an Indian grasshopper *Acrida exaltata* (Walker) ( Orthotera:Acrididae:Acridinae). *Journal of Orthoptera Research USA.*4: 57-59.(UGC List 22093 Scopus)

2.**Nath Susanta** and Haldar.P.1993.( database 2007). Effect of food on the reproductive potential of a common Indian grasshopper . *Environment and Ecology* 11(2), 450-452. **Locust Ecology & Control unit, Bibliographical query database.Centre de cooperation internationale en rechercheagronomique pour le developement(CIRAD), France.** 01.04.2007.

**Nath Susanta** and Haldar.P.1993.( database 2007). Effect of food on the reproductive potential of a common Indian grasshopper. *Environment and Ecology* 11(2), 450-452. **Locust Ecology & Control**

unit, Bibliographical query database. *Centre de cooperation internationale en recherche agronomique pour le developement (CIRAD)*, France. 01.04.2007. Serial No. 1431.

Haldar, P. and Nath, S. 1993. Food consumption and tissue growth in an acridid of the Laterite Zone of West Bengal (India). *Informal Conference. Orthopterist's Society, USA*.

### **PUBLISHED BOOKS:**

Nath, Susanta. 2011. *Ecology of a Pest Grasshopper: Methods, Observations, Discussion*. (ISBN 978-3-8383-6042-3) Lap Lambert Academic Publishing, Germany.

Nath Susanta. 2020. **Na-mansher Upakkhan**. Prayag Prakashani, Kolkata. ISBN 978-81-89820-97-8

### **CHAPTERS IN BOOKS:**

Banerjee, Debangshu, Nath Susanta and Modak, Biplob Kumar. 2024. The interaction of climatic crisis and disease outbreaks: Cataclysmic consequences. *Climatic Change Management: Climate Crisis, Social Responses and Sustainability: Socio-economic study on Global Perspectives*. Editors: U. Mukhopadhyay, P. Chouhan, S. Paul, I. roychowdhury, U. Chatterjee. **Springer**. Pp.247-272. ISBN.978-3-031-58260-8, eBook:978-3-031-58261-5, doi.org/10.1007/978-3-031-58261-5.

Susanta Nath, Rahul Podder, Biplob Kumar Modak and Sudipta Das. 2019. Comparing the Susceptibility of *Chironomus stratipenis* larvae exposed to heavy metals. *Recent Advances in Biological Research Vol. 2*, Chapter 5, Book Publisher International, pp.48-58. Print ISBN: 978-93-89246-04-9, eBook ISBN: 978-93-89246-48-3.

Podder, R. and Nath, S. 2013. Impact of Aquatic Physicochemical Parameters on the Diversity and Body Protein of Chironomids. *Proceedings of the International Conference on Health, Environment and Industrial Biotechnology. BioSangam, MNNIT, Allahabad*. 21-23, Nov, 2013. pp. 214-220.

( ISBN 13:978-9-33-290137-7 and ISBN 10:9-33-290137-6 (McGraw Hill Education Pub. )

Roy, A., Roy, B., Chakraborty, P., Sarkar, R., Bose, S. and Nath, S. 2010. Threats and Conservation of Vulture. *Biodiversity: Assessment and Awareness*. (ISBN : 978-81-908801-2-1) pp.116-123.

### **PUBLISHED PAPERS IN SEMINARS/SYMPOSIA/CONFERENCES:**

1. Rahul Podder, Biplob Kumar Modak and Susanta Nath. 2018. *A cost effective approach to yield high biomass and growth of Chironomid larvae*. **State Regional (Western Region) Science Congress**, Sidho-Kanho-Birsha University, Purulia, West Bengal, 20-21, Dec, 2018. Oral Presentation: ZO- O 24.

2. Nath, Susanta and Rai Anuradha 2016. Gender Ratio of Two Short Horned Pest Grasshoppers from the Tea Gardens of Darjeeling Hill and its Application in Virtual Study. (In: *Virtual Study and Virtual Laboratory : a Boom in Distance Learning*. Ed: Netaji Subhas Open University, West Bengal): 99-103. ISBN 978-93-82112-22-8.

3. Podder, R., Das, T. and Nath, S. 2015. Biomass and Biofuel: Future as renewable energy. *Proceedings National Conference on Challenges in Biodiversity and Resource Management, University of Kalyani and W B Biodiversity Board*, pp.271-276 (ISBN 976-81-927762-0-0).

4. Podder, R. and **Nath, S.** 2013. Impact of Aquatic Physicochemical Parameters on the Diversity and Body Protein of Chironomids ***Proceedings of the International Conference on Health, Environment and Industrial Biotechnology. BioSangam, MNNIT, Allahabad.*** 21-23, Nov, 2013. pp. 214-220.

(ISBN 13:978-9-33-290137-7 and ISBN 10:9-33-290137-6 (McGraw Hill Education (India) Private Ltd, New Delhi.)

5. Roy, A., Roy, B., Chakraborty, P., Sarkar, R., Bose, S. and Nath, S. 2010. Threats and Conservation of Vulture. ***UGC Sponsored Seminar on Conservation of Biodiversity: Assessment and Awareness*** (ISBN: 978-81-908801-2-1).

6. Nath, S. 2008. Recovery of Ozone Layer. ***National Seminar on Science and Society. Sponsored by Deptt. of Higher Education, Govt. of West Bengal*** : 63-74.

7. **Nath, S.**, Sharma, N. and Haldar, P. 2008. Diversity of High Altitude Acridids. ***Proceedings of the Zool. Soc.*** : 187-190. (Springer)

8. **Nath, S.** 2008. Recovery of Ozone Layer. ***Science and Society***: 63-74.

### **ABSTRACT OF CONFERENCE:**

Samanta, S. and **Nath Susanta.** 2025. Considering chironomid larvae as a prospective ecofriendly food for fish culture. International Seminar, Barasat Govt. College.

Rahul Podder, **Susanta Nath** and Biplob Kumar Modak. 2023. **Studies on the adaptability of Chironomid larvae (Insecta: Diptera) in stressed environment.** 6<sup>th</sup> Regional Science Congress. 2023. 12-13 December, 2023. Sidho-Knho Birsha University, Purulia & Department of Science and Technology and Biotechnology, West Bengal. Studies on the adaptability of Chironomid larvae (Insecta: Diptera) in stressed environment. ZO-01 (ID-17095191).

Samanta, S., Podder, R. and **Nath Susanta.** 2019. Nutrient Enrichment of Fish and Habitat Restoration by using Chironomid Larvae. ***7<sup>th</sup> India Biodiversity Meet. International Conference,*** 19-21 November, 2019, **Indian Statistical Institute:** P-B38.

Podder, R. and **Nath, S.** 2013. Impact of Aquatic Physicochemical Parameters on the Diversity and Body Protein of Chironomids ***International Conference on Health, Environment and Industrial Biotechnology. BioSangam, MNNIT, Allahabad.*** 21-23, Nov, 2013. pp. 161. (ISBN:978-93-83083-41-1)

**Nath, S.**, Bose, S. and Roy, B. 2013. Effect of Arsenic on Haemocytes of Short Horned Grasshopper. ***24<sup>th</sup> All India Congress of Zoology.*** 23-25, Nov, 2013. pp. 152.

**Nath, S.** and Podder, R. 2013. Chironomid Farming – Natural Food Production for Aquaculture. ***24<sup>th</sup> All India Congress of Zoology.*** 23-25, Nov, 2013. pp. 179.

Podder, P., Das, T. and **Nath, S.** 2013. Biomass and Biofuel: Future as renewable energy. ***National Conference on Challenges in Biodiversity and Resource Management, University of Kalyani and W B Biodiversity Board,*** 26-27<sup>th</sup> Feb, 2013.

**Nath, S.** and Rano, P. 2011. Preliminary study of some edaphic factors from an urban area of West Bengal, India. ***International Seminar.*** Jhargram Raj College, West Bengal.

## **GOVERNMENT GENERAL DEGREE COLLEGE, SINGUR**

**Nath, S.** and Rai, A. 2010. Morphometric correlates of a grasshopper from Darjeeling Himalayas, India. ***International Seminar: Researches in Zoology – Basic and Applied.*** (ISBN.819077418-2) University of Burdwan : 108.

Roy, A., Roy, B., Chakraborty, P., Sarkar, R., Bose, S. and **Nath, S.** 2010. Threats and Conservation of Vulture. ***UGC Sponsored Seminar on Conservation of Biodiversity: Assessment and Awareness.***

**Nath, S.** 2009. Importance of teaching tools in teaching learning process. NAAC sponsored Nation Seminar on Role of IQAC on quality enhancement & quality sustenance in higher education. Midnapore College (A<sup>+</sup> Grade): 39.

**Nath, S.** and Rai, A. 2008. Biological studies on Relative Growth and Body Weight of *Ceracrisnigricornislaeta* (Bolivar) (Orthoptera: Acrididae). ***Symposium on Dimension of Research Applications in Animal Sciences.*** Department of Zoology, University of North Bengal: 19.

**Nath, Susanta** and Rai, Anuradha. 2015. Gender Ratio of two Short Horned Pest Grasshoppers from the Tea Gardens of Darjeeling Hill. ***One Day UGC-DEB Sponsored National Seminar on “Virtual Study and Virtual Laboratory A Boon in Distance Learning”*** Organised School of Sciences Netaji Subhas Open University, Kolkata, West Bengal. February, 20, 2015. Pp.6-7.

Rai, A., Gurung, K. and **Nath, S.** 2008. Preliminary study on the seasonal occurrence of *Atractomorphacrenulata* (Fabricius) in Happy Valley tea estate, Darjeeling. ***UGC Sponsored National Seminar on Recent Trends in Exploration, Exploitation and Conservation of Biodiversity:*** 19.

**Nath, S.,** Sharma, N. and Haldar, P. 2007 Biodiversity of High Altitude Acridids. ***National Seminar on Dimension in Zoological Research in Human Welfare.*** Sponsored by National Biodiversity Authority and W. B. Biodiversity Board: 149.

**Nath, Susanta** and Haldar, P. 2005. Seasonal occurrence of an acridid in forest and cropland ecosystem in the laterite zone of West Bengal. Abstract. ***National seminar on Molecules to Man.*** University of Burdwan : 45.

### **INVITATION:**

1. **Judge in the Technical Session on Zoology**, 30th West Bengal State Science & Technology Congress on 28th February & 1st March, 2023 at Science City, Kolkata.
2. **Invited lecture.** Virtual Practical Workshop on Laboratory Techniques in Zoology for Undergraduate Course (Semester - II, Burdwan University Syllabus). 2021. Invited lecture entitled '**Methods of Barr body detection**' in Virtual Practical Workshop Series in Zoology on 14th June, 2021.
3. Haldar, P. and Nath, S. 1993. Food consumption and tissue growth in an acridid of the Laterite Zone of West Bengal (India). ***Informal Conference. Orthopterist's Society, USA.***

### **PARTICIPATION IN SEMINARS/SYMPOSIA/CONFERENCES/WORKSHOPS:**

International Seminar, Barasat Govt. College. Samanta, S. and **Nath Susanta.** 2025.

Rahul Podder, **Susanta Nath** and Biplob Kumar Modak. 2023. 6<sup>th</sup> Regional Science Congress. 2023. 12-13 December, 2023. Sidho-Knho Birsha University, Purulia & Department of Science and Technology and Biotechnology, West Bengal.

Samanta, S., Podder, R. and **Nath Susanta.** 2019. 7<sup>th</sup> ***India Biodiversity Meet. International Conference***, 19-21 November, 2019, Indian Statistical Institute.

## **GOVERNMENT GENERAL DEGREE COLLEGE, SINGUR**

Podder, R. and Nath, S. 2013. *International Conference on Health, Environment and Industrial Biotechnology. BioSangam, MNNIT, Allahabad.* 21-23, Nov, 2013.

Nath, S., Bose, S. and Roy, B. 2013. *24<sup>th</sup> All India Congress of Zoology.* 23-25, Nov, 2013.

Nath, S. and Podder, R. 2013. *24<sup>th</sup> All India Congress of Zoology.* 23-25, Nov, 2013.

Podder, P., Das, T. and Nath, S. 2013. *National Conference on Challenges in Biodiversity and Resource Management, University of Kalyani and W B Biodiversity Board,* 26-27<sup>th</sup> Feb, 2013.

Nath, S. and Rano, P. 2011. *International Seminar.* Jhargram Raj College, West Bengal.

Nath, S. and Rai, A. 2010. *International Seminar: Researches in Zoology – Basic and Applied.* University of Burdwan.

Roy, A., Roy, B., Chakraborty, P., Sarkar, R., Bose, S. and Nath, S. 2010. *UGC Sponsored Seminar on Conservation of Biodiversity: Assessment and Awareness.*

Nath, S. 2009. Importance of teaching tools in teaching learning process. NAAC sponsored Nation Seminar on Role of IQAC on quality enhancement & quality sustenance in higher education. Midnapore College (A<sup>+</sup> Grade).

Nath, S. and Rai, A. 2008. *Symposium on Dimension of Research Applications in Animal Sciences.* Department of Zoology, University of North Bengal.

Nath, Susanta and Rai, Anuradha. 2015. *One Day UGC-DEB Sponsored National Seminar on “Virtual Study and Virtual Laboratory A Boon in Distance Learning”* Organised School of Sciences Netaji Subhas Open University, Kolkata, West Bengal. February, 20, 2015.

Rai, A., Gurung, K. and Nath, S. 2008. *UGC Sponsored National Seminar on Recent Trends in Exploration, Exploitation and Conservation of Biodiversity.*

Nath, S., Sharma, N. and Haldar, P. 2007 *National Seminar on Dimension in Zoological Research in Human Welfare.* Sponsored by National Biodiversity Authority and W. B. Biodiversity Board.

Nath, Susanta and Haldar, P. 2005. *National seminar on Molecules to Man.* University of Burdwan.

## **MEMBERSHIP OF LEARNED SOCIETIES/ EDITORIAL BOARDS, ETC.:**

Member of Indian Science Congress