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**POST HELD** **Former DIRECTOR, ZOOLOGICAL SURVEY OF INDIA, (MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE, GOVT OF INDIA)**

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**EDUCATION** **Ph. D:** Department of Zoology, Kurukshetra University,  
Kurukshetra, Haryana, 1986.  
**Title of Thesis:** Taxonomic Studies on Pleurostict  
Scarabaeidae (Coleoptera: Insecta) of North West India.

**RESEARCH INTERESTS** **Biodiversity & Conservation**

**EXPERIENCE (ADMIN)** **31 years**

**EXPERIENCE (RESEARCH)** **40 years**

**AREA OF WORK** **INDIA: Covering all the States, UTs, Bio-geographic Zones, Protected Areas, Ecosystems, Species discovery, monitoring, conservation and sustainable utilisation of Biodiversity.**

## BOOKS PUBLISHED (81)

1. **Chandra K.**, Alfred J.R.B., Mitra B., and Chowdhury B.R. 2017. *Fauna of Sundarban Biosphere Reserve*: 1-240 (Published by the Director, Zool. Surv. India, Kolkata).
2. **Chandra, K.** 2007. *Fauna of Madhya Pradesh (including Chhattisgarh)*. State Fauna Series, **15** (Part-1): 1-564 (Edited by the Director, Zool. Surv. India, Kolkata) (As Coordinator).
3. **Chandra, K.** 2008. *Faunal Diversity of Jabalpur District, Madhya Pradesh*: 1-417 (Edited by the Director, Zool. Surv. India, Kolkata) (As Coordinator).
4. **Chandra, K.** 2009. *Fauna of Bandhavgarh Tiger Reserve, Madhya Pradesh*. Conservation Area Series, **40**: 1-290 (Published by the Director, Zool. Surv. India, Kolkata) (As Coordinator).
5. **Chandra, K.** 2009. *Fauna of Pachmarhi Biosphere Reserve*. Conservation Area Series, **39**: 1-380 (Published by the Director, Zool. Surv. India, Kolkata) (As Coordinator).
6. **Chandra, K.** 2011. *Fauna of Madhya Pradesh (including Chhattisgarh)*. State Fauna Series, **15**(3): 1-202 (Edited by the Director, Zool. Surv. India, Kolkata) (As Coordinator).
7. **Chandra, K.** 2011. *Pranivigyan Ki Vargikaran Shabdavali (Hindi Translation)*: 1-24 (Published by the Director, Zoological Survey of India, Kolkata) (in Hindi).
8. **Chandra, K.** 2014. *Fauna of Achanakmar Amarkantak Biosphere Reserve, Chhattisgarh and Madhya Pradesh*. Conservation Area Series, **49**: 1-292 (Published by the Director, Zool. Surv. India, Kolkata) (As Coordinator).
9. **Chandra, K.** and Boaz, A.A. 2018. *Fauna of Achanakmar Tiger Reserve, Chhattisgarh*: 1-486 (Published by the State Forest Research and Training Institute, Forest Department, Chhattisgarh & Zoological Survey of India).
10. **Chandra, K.** and Boaz, A.A. 2018. *Fauna of Badalkhol Wildlife Sanctuary, Chhattisgarh*: 1-398 (Published by State Forest Research & Training Institute, Forest Department, Chhattisgarh, and Zoological Survey of India, Kolkata).
11. **Chandra, K.** and Boaz, A.A. 2018. *Fauna of Barnawapara Wildlife Sanctuary, Chhattisgarh*: 1-598 (Published by State Forest Research & Training Institute, Forest Department, Chhattisgarh, and Zoological Survey of India, Kolkata).
12. **Chandra, K.** and Boaz, A.A. 2018. *Fauna of Boramdev Wildlife Sanctuary, Chhattisgarh*: 1-470 (Published by State Forest Research & Training Institute, Forest Department, Chhattisgarh, and Zoological Survey of India, Kolkata).
13. **Chandra, K.** and Boaz, A.A. 2018. *Fauna of Gomarda Wildlife Sanctuary, Chhattisgarh*: 1-342 (Published by State Forest Research & Training Institute, Forest Department, Chhattisgarh, and Zoological Survey of India, Kolkata).

14. **Chandra, K.** and Boaz, A.A. 2018. *Fauna of Guru Ghasidas National Park, Chhattisgarh*: 1-534. Published by the State Forest Research and Training Institute, Forest Department, Chhattisgarh & Zoological Survey of India.
15. **Chandra, K.** and Boaz, A.A. 2018. *Fauna of Undanti Sitandi Tiger Reserve, Chhattisgarh*: 1-414 (Published by State Forest Research & Training Institute, Forest Department, Chhattisgarh, and Zoological Survey of India, Kolkata).
16. **Chandra, K.** and Boaz, A.A. 2018. *Faunal Diversity of Bastar District, Chhattisgarh*: 1-706 (Published by the State Forest Research and Training Institute, Forest Department, Chhattisgarh & Zoological Survey of India).
17. **Chandra, K.** and Boaz, A.A. 2018. *Faunal diversity of Bilaspur District, Chhattisgarh*: 1-542. Published by the State Forest Research and Training Institute, Forest Department, Chhattisgarh & Zoological Survey of India.
18. **Chandra, K.** and Boaz, A.A. 2018. *Faunal Diversity of Durg District, Chhattisgarh*: 1-414 (Published by the State Forest Research and Training Institute, Forest Department, Chhattisgarh & Zoological Survey of India).
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20. **Chandra, K.** and Boaz, A.A. 2018. *Faunal Diversity of Karba District, Chhattisgarh*: 1-413 (Published by the State Forest Research and Training Institute, Forest Department, Chhattisgarh & Zoological Survey of India).
21. **Chandra, K.** and Boaz, A.A. 2018. *Faunal Diversity of Surguja District, Chhattisgarh*: 1-477 (Published by the State Forest Research and Training Institute, Forest Department, Chhattisgarh & Zoological Survey of India).
22. **Chandra, K.** and Raghunathan, C. 2018. *Faunal Diversity of Biogeographic Zones: Islands of India*: 1-523. (Published by the Director, Zool. Surv. India, Kolkata).
23. **Chandra, K.** and Rajan, P. T. 2004. *Faunal Diversity of Mount Harriet National Park (South Andaman)*, Conservation Area Series, 17: 1-142, figs. 53 (Published by the Director, Zool. Surv. India, Kolkata).
24. **Chandra, K.** and Sambath, S. 2016. *Faunal Diversity of Singhori Wildlife Sanctuary, District Raisen, Madhya Pradesh*. Conservation Area Series, 57: 1-394+28 Plates (Published by the Director, Zool. Surv. India, Kolkata) (As Coordinator).
25. **Chandra, K.** and Sambath, S. 2016. *Faunal Diversity of Veeragana Durgawati Wildlife Sanctuary District Damoh, Madhya Pradesh*. Conservation Area Series, 56: 1-391+28 Plates (Published by the Director, Zool. Surv. India, Kolkata) (As Coordinator).

26. **Chandra, K.** and Sharma, G. 2020. Abstracts book of National Webinar on Faunal Diversity of India. ZSI e-publication. Published by The Director, Zoological Survey of India, Kolkata. 121pp.
27. **Chandra, K.** and Sharma, R.M. 2012. *Fauna of Ecosystems of India-Deccan Peninsula*: 1-26 (Published by the Director, Zool. Surv. India, Kolkata).
28. **Chandra, K.** and Sheela, S. 2018. *Animal Discoveries 2017: New Species and New Records*: 1-116 (Published by the Director, Zool. Surv. India, Kolkata).
29. **Chandra, K.** and Sheela, S. 2019. *Animal Discoveries-2018*: 1-131 (Published by the Director, Zool. Surv. India, Kolkata).
30. **Chandra, K.** and Sivaperuman, C. 2019. *Mesmerising Fauna of Great Nicobar*. Zool. Surv. India, Kolkata: 1-246.
31. **Chandra, K.**, Bharti, D., Kumar, S., Raghunthan, C., Gupta, D., Alfred, J.R.B. and Chowdhury, B.R. 2021. *Faunal Diversity in Ramsar Wetlands of India*.1-350. (Jointly Published by ZSI, Kolkata and Wetland Division MOEF&CC, Delhi).
32. **Chandra, K.**, Deepa J., Raghunathan, C., Jadhav, S.S., Karuthapandy, M. 2021. "Current Status of Faunal Diversity in Telangana": 1-394 (Published by the Director, Zool. Surv. India, Kolkata).
33. **Chandra, K.**, Gopi, K.C., Mishra S.S. and Raghunathan, C. 2019. *Faunal Diversity of Mangrove Ecosystems in India*: 1-736 (Published by the Director, Zool. Surv. India, Kolkata).
34. **Chandra, K.**, Gopi, K.C., Rao, D.V., Valarmathi, K. and Alfred, J.R.B., 2017. *Current Status of Freshwater Faunal Diversity in India*: 1-624 (Published by the Director, Zoological Survey of India, Kolkata).
35. **Chandra, K.**, Gupta, D., Gopi, K.C., Tripathy, B. and Kumar, V. 2018. *Faunal Diversity of Indian Himalaya*: 1-872 (Published by the Director, Zool. Surv. India, Kolkata).
36. **Chandra, K.**, Kumar, V., Singh, N., Raha, A. and Sanyal, A. K. 2019. *Assemblages of Lepidoptera in Indian Himalaya through LongTerm Monitoring Plots*: 1-457. (Published by the Director, Zool. Surv. India, Kolkata)
37. **Chandra, K.**, Mahabal, A., Gupta, R. and Nema, D.K. 2006. Avifauna of Kanha Tiger Reserve, Madhya Pradesh. *Rec. zool. Surv.India, Occasional Paper No.*, 250: 1-214 + 12 plates.
38. **Chandra, K.**, Majumder, A. and Gopinathan, C. 2020. *Birds of the Sundarban Biosphere Reserve*, Published by Director, Zoological Survey of India, Kolkata. 1-239.
39. **Chandra, K.**, Pathania, P.C. Rajmohana, K. and Hundal, S.S. 2021. *Faunal Diversity of Agroecosystem in India*: 1- 767 (Published by the Director, Zool. Surv. India, Kolkata).
40. **Chandra, K.**, Raghunathan, C. and Dash, S. 2018. *Current Status of Estuarine Diversity of India* (Published by the Director, Zoo. Surv. India, Kolkata). 1-576.

41. **Chandra, K.**, Raghunathan, C. and Mao, A.A. 2020. Biodiversity Profile of East Kolkata Wetlands,. 1-326. Jointly published by the Director, Zoological Survey of India, Kolkata and East Kolkata Wetlands Management Authority, Department of Environment, Govt. of West Bengal [ISBN: 978-81-8171-547-0].
42. **Chandra, K.**, Raghunathan, C. and Mondal, T. 2017. *Faunal Diversity of Great Nicobar Biosphere Reserve*. Conservation Area Series, 61: 1-298 + 36 plates (Published by the Director, Zool. Surv. India, Kolkata).
43. **Chandra, K.**, Raghunathan, C. and Mondal, T. 2020. *Faunal Diversity of Biogeographic Zones: Coasts of India*. 1-807. (Published by the Director, Zool. Surv. India, Kolkata), ISBN 978-81-8171-543
44. **Chandra, K.**, Raghunathan, C. and Sheela, S. 2020. *Animal Discoveries 2019: New Species and New Records*. 1-184. [Published by the Director, Zool.Surv.India, Kolkata].
45. **Chandra, K.**, Raghunathan, C., Mondal, T. and Dash S. 2016. *Current status of Marine Faunal Diversity in India: 1-525* (Published by the Director, Zoological Survey of India, Kolkata).
46. **Chandra, K.**, Raghunathan, C., Pillai, H.U.K., Jasmine, P. and Mondal, T. 2021. *Deep Sea Faunal Diversity in India*. 1-634 (Published by the Director, Zool. Surv. India, Kolkata). ISBN 978-81-8171-569-2.
47. **Chandra, K.**, Raghunathan, C., Sureshan, P.M., Subramanian, K.A., and Rizvi, A.N. 2020. *Faunal Diversity of Biogeographic Zones of India: Western Ghats: 1-744* (Published by the Director, Zool. Surv. India, Kolkata).
48. **Chandra, K.**, Kosygin, L., Raghunathan, C., Sureshan, P.M., and Gupta, D.,. 2021. *Faunal Diversity of Biogeographic Zones of India: North-East: 1-720*. (Published by the Director, Zool. Surv. India, Kolkata).ISBN 978-81-8171-565-4.
49. **Chandra, K.**, Rizwi, A.N., Acharya, S. and Raghunathan, C. 2019. *Manual on Collection, Preservation and Identification of Soil Fauna: 1-222* (Published by Zool. Surv. India, Kolkata).
50. **Chandra, K.**, Sambath, S. and Talmale, S.S. 2012. *Protected Areas of Madhya Pradesh and Chhattisgarh: 1-22* (Published by the Director, Zool. Surv. India, Kolkata).
51. **Chandra, K.**, Sharma, L.K., Maheswaran, G. and Tripathy, B. 2021. *Status of Avifaunal Diversity in Bird Sanctuary of India: 1–216*. (Published by the Director Zoological Survey of India, Kolkata).
52. **Chandra, K.**, Sharma, R.M. and Ojha, P. 2010. A compendium on the faunal resources of Narmada River Basin in Madhya Pradesh. *Rec. zool. Surv. India, Occasional Paper No.*, 310: 1-152 (Published by the Director, Zool. Surv. India, Kolkata).
53. **Chandra, K.**, Sidhu, A.K., Raghunathan, C. and Kubendran, T. 2019. *Faunal Diversity of Biogeographic Zones of India: Indian Trans-Himalaya: 1-225*.

54. **Chandra, K.**, Tripathy, B., Sharma, L.K., Mondal, K., Kumar, H., Saini, J., Sajan, S.K., Chatterjee, P., Payra, A., Ghosh, D., Deepak, C.K. and Sen, S. 2018. *Toolkit for Long-term Monitoring of the Faunal Resources in the Indian Himalaya*. Zoological Survey of India, Kolkata, 1-84.
55. Das, P., **Chandra, K.** and Gupta, D. 2021. *The Ladybird Beetles of Manipur, Northeast, India (Coleoptera : Coccinellidae)*, Weser Books, Germany, 73 pp.
56. Deuti, K., Kamalakannan, M., Shetty, P.G.S., Venkatraman, C. and **Chandra, K.** 2020. *Pictorial Guide Amphibians, Reptiles and Mammals of East Kolkata Wetland*, 110 pp.
57. Deuti, K., Raha, S., Bag, P., Debnath, S., Vardaraju and **Chandra, K.** 2016. *Skinks of Eastern and North-Eastern India: 1-96* (Published by the Director, Zool. Surv. India, Kolkata).
58. Deuti, K., Raha, S., Bag, P., Debnath, S., Srikanthan, A.N. and **Chandra, K.** 2020. *Skink of India*, Published by Director, Zoological Survey of India, Kolkata. 1-398.
59. Gupta, S. K. and **Chandra, K.** 2019. *Orthoptera Diversity in Indian Biogeographic Zones. Occasional paper No. 399: 1-76* (Published by the Director, Zool. Surv. India, Kolkata).
60. Jaiswal, D., **Chandra, K.**, Kushwaha, S. and Gupta, D. 2020. *Faunal Diversity of Bhoj Wetland, Bhopal, Madhya Pradesh, India (A Ramsar Site)*, Wetland Ecosystem Series, 22: 1-284.
61. Kamalakannan, M., Venkatraman, C. and **Chandra, K.** 2019. *Tricho-Taxonomy of Indian Mammals (Carnivores, Artiodactyls, Primates, Giant Squirrels, Lagomorphs, and Pangolins): 1-227* (Published by the Director, Zool. Surv. India, Kolkata).
62. Kamalakannan, M., Venkatraman, C. and **Chandra, K.** 2019. *Dentition in India Terrestrial Mammals*. Published by the Director, Zoological Survey of India, Kolkata. 210 pp.
63. Kumar, J.S.Y., Raghunathan, C. and **Chandra, K.** 2018. *Annotated checklist of octocorallia from Indian Coast*. Lap Lambert Academic Publishing. 144 pp.
64. Kumar, V., Tyagi, K., Kundu, S., Caleb, T.D.J., Laskar, B. A., and **Chandra, K.** 2018. *Genotypic data: Indian Fauna, Series-2: 1-254*. Published by the Director, Zoological Survey of India, Kolkata.
65. Kumaralingam, S. Raghunathan, C., Ajith Kumar, T.T. and **Chandra, K.** 2017. Reef Associated Common Crustaceans of Andaman and Nicobar Islands, Lakshadweep and Gulf of Mannar. *Rec. zool. Serv. India, Occasional paper No. 380: 1-380* (Published by the Director, Zool. Surv. India, Kolkata).
66. Kundu, S., Kumar, V., Murthy, B.H.C.K. and **Chandra, K.** 2018. *Chelonian Types of National Zoological Collections: 1-70* (Published by the Director, Zool. Surv. India, Kolkata).

67. Mondal, J., Raghunathan, C., Mondal, T. and **Chandra, K.** 2017. Reef Associated Ascidians of Andaman and Nicobar Islands, *Rec. zool. Surv. India, Occasional paper No. 384*: 1-108+ 32 plates (Published by the Director, Zool. Surv. India, Kolkata).
68. Mukherjee, P., **Chandra, K.**, Hassan, M.E., Biswas, B. and Kushwaha, S. 2016. Assassin Bugs (Reduviidae: Heteroptera) from Chhattisgarh, India. *Rec. zool. Surv. India, Occasional Paper Number, 379*: 1-47.
69. Pande, S., Deshpande, P., Sant, N., **Chandra, K.** and Boaz, A.A. 2012. *Birds of Chhattisgarh*: 1-226 (Published by Ela Foundation with Forest Department, Chhattisgarh).
70. Pande, S., Sant, N., **Chandra, K.**, Deshpande, P., and Shukla, N.P. 2009. *Birds of Madhya Pradesh*: 1-234. (Jointly with Madhya Pradesh Council of Science and Technology), Published by Ela Foundation.
71. Rajan, P.T., **Chandra, K.** and Alfred, J.R.B. 2006. *Andaman & Nicobar Dwipon ki Prani Vividhta* (with information on tourism): 1-173 (45 colour plates) (in Hindi).
72. Ramakrishna, **Chandra, K.**, Nema, D.K., Ahirwar, S.C. and Alfred, J.R.B. 2006. *Faunal Resources of National Parks of Madhya Pradesh and Chhattisgarh*. Conservation Area Series, 30: 1-123, figs., 27 maps and plates (Published by the Director, Zool. Surv. India, Kolkata).
73. Rao, D.V., **Chandra, K.** and Kamla, D. 2017. *Endemic Animals of Andaman and Nicobar Island*: 1-184 (Published by the Director, Zool. Surv. India, Kolkata).
74. Selvakumar, C., Janarthanan, S., **Chandra, K.**, Subramanian, K.A. and Sivaramakrishnan, K.G. 2019. *Handbook on Morphological and Molecular Identification of Southern Indian Mayflies (Insecta: Ephemeroptera)*: 1-100 (Published by the Director, Zool. Surv. India, Kolkata).
75. Sheela, S., Das, D., Shah, S.K. and **Chandra, K.** 2018. *The Type Specimens in the National Zoological Collection: Lepidoptera, Type Catalogue Series, 4*: 1-342 (Published by the Director, Zool. Surv. India, Kolkata).
76. Shishodia, M.S., **Chandra, K.** and Gupta, S.K. 2010. An annotated checklist of Orthoptera (Insecta) from India. *Rec. zool. Surv. India, Occasional Paper No.*, 314: 1-366.
77. Singh, R.P., Manoharan, M., Hemambika, B., Sivaperuman, C., Sankar, K. and **Chandra, K.** 2019. *Bibliography on Wildlife Studies in Andaman and Nicobar Islands*. Slim Ali Centre for Ornithology and Natural History, Coimbatore, Tamil Nadu and Zoological Survey of India, Kolkata pp. 373.
78. Chandra, K., Sharma, L.K., Maheswran, G. and Tripathy, B. 2020. *Status of Avifaunal Diversity in Bird Sanctuaries of India*: 1-216.(Published by the Director, Zool. Surv. India, Kolkata).

79. Chandra, K., Joshi, B.D., Singh, A., Bharadwaj, M., Thakur, M., Sharma, . 2020. *Current Status and Distribution of Threatened Vertebrates in Indian Himalayan Region: Focus on Conservation and Management Planning*. 1-276. (Published by the Director, Zool. Surv. India, Kolkata).
80. Joshi, B.D., Singh, A., Chandra, K., 2020. *Galliforms of Indian Himalayan: Mapping for adaptive spatial conservation planning*. 1-97. (Published by the Director, Zool. Surv. India, Kolkata).
81. Chandra, K., Joshi, B.D., and Chatterjee, P. 2020. *Establishing Permanent Plots and Protocols for Vertebrates in Indian Himalayan Region*. 1-130. (Published by the Director, Zool. Surv. India, Kolkata)

### PROCEEDINGS/ABSTRACT BOOKS EDITED ( 5 )

1. **Chandra, K.** Tyagi, B.K. Raghunathan, C. and Suman, D.S. 2019. 12<sup>th</sup> National Conference on Vector-Borne and Zoonotic Diseases-Identification and Management ( Abstracts).1-134.
2. Gangwar, B. and **Chandra, K.** 1998. *Symp. Pro. Island Ecosystem and sustainable development* (Edited): Andaman Science Association, & Science & Technology, Andaman and Nicobar Administration: 1-245.
3. Ramakrishna, **Chandra, K.**, Bohra, P. and Sharma, G. (Eds.) 2010. *Impact of Climate Change on Biodiversity and Challenges in Thar Desert- Proceedings of National Seminar, ZSI, DRC, Jodhpur*. Published by Director, ZSI, Kolkata, Evergreen Printers, Jodhpur. 384 pp.
4. Ramakrishna, **Chandra, K.**, Bohra, P., Sharma, G. and Murleedharan, V. 2010. *Golden Jubilee Souvenir of DRC, ZSI, Jodhpur*. Published by Director, ZSI, Kolkata. Evergreen Printers, Jodhpur, 80 pp.
5. Ramakrishna, **Chandra, K.**, Bohra, P., Sharma, G. and Sewak, R. (Eds.) 2010. *National Seminar on Impact of Climate Change on Biodiversity and Challenges in Thar Desert- Abstracts*. Published by Director, ZSI, Kolkata. Evergreen Printers, Jodhpur. 144 pp.

### RESEARCH PAPERS PUBLISHED IN JOURNALS LISTED IN SCIENCE CITATION INDEX ( 161 )

**Overall Impact Factor: 151.559**

1. Aneesh, P.T., Helna, A.K., Jean-Paul Trilles, J.P. and **Chandra, K.** 2018. A taxonomic review of the genus *Joryma* Bowman and Tareen, 1983 (Crustacea: Isopoda: Cymothoidae) parasitizing the marine fishes from Indian waters, with a description of a new species. *Marine Biodiversity*. <https://doi.org/10.1007/s12526-018-0920-7> [IF:1.24].
2. Bagaria, P., Sharma, L.K., Joshi, B.D., Kumar, H., Mukherjee, T., Thakur, M. and **Chandra, K.** 2020. West to east shift in range predicted for Himalayan Langur



- in climate change scenario. *Global Ecology and Conservation*, 22 DOI: <https://doi.org/10.1016/j.gecco.2020.e00926> [IF: 2.75].
3. Bandyopadhyay, U., Raha, A., Sanyal, A.K., Gayen, S. and **Chandra, K.** 2020. Description of a new species of *Donda* Moore, 1882 (Lepidoptera: Noctuidae: Pantheinae) from the Western Himalayas, India. *Entomological News* 129(1), 49-54 [IF: .39]
  4. Bharti, D., Brusa, F., Kumar, S. and **Chandra, K.** 2020. First record of *Stenostomum sphagnetorum* (Platyhelminthes, Catenulida) from India. *Zootaxa*, 4816(3): 392-396.
  5. Bharti, D., Kumar, S., Terza, A. L. and **Chandra, K.** 2020. Dispersal of ciliated protist cysts: mutualism and phoresy on mites. *Ecology*. 101 (9), e03075.
  6. Bit, A., Thakur M., Singh, S.K., Joshi, B.D., Singh, V.K., Sharma, L.K., Tripathy, B. and **Chandra, K.** 2020. Assembling mitogenome of Himalayan Black Bear (*U. t. laniger*) from low depth reads and its application in drawing phylogenetic inferences. *Scientific Reports* volume 11, Article number: 730
  7. Chakraborty, O., Raghunathan, C. and **Chandra, K.** 2018. New record of Hydrozoa *Distichopora violacea* (Pallas, 1766) (Anthoathecata: Stylasteridae) from Andaman and Nicobar Islands, India. *Zootaxa*, 4508(3): 439-442 [IF: 0.931].
  8. Chakraborty, R., Kundu, S., Rahaman, I., Singha, D., **Chandra, K.**, Pataik, S. and Kumar, V. 2018. The complete mitochondrial genome of Melon thrips, *Thrips palmi* (Thripinae) and comparative analysis: A vector for *Tospoviruses*. *PLoS ONE*. 13: e0199404. DOI:10.1371/journal.pone.0199404. [IF 2.766].
  9. Chakraborty, R., Singha, D., Kumar, V., Parkashi, A., Kundu, S., **Chandra, K.**, Patnaik, D. and Tyagi, K. 2019. DNA barcoding of selected *Scirtothrips* species (Thysanoptera) from India. *Mitochondrial DNA Part B*, 4(2): 2710-2714 [IF 0.561].
  10. **Chandra, K.** 1991. New genitalic characters for distinguishing *Anomala dorsalis* Fabricius and *Anomala fraterna* Burmeister (Coleoptera: Scarabaeidae). *The Coleopterists Bulletin*, 45(3): 292-294 [IF: 0.697].
  11. **Chandra, K.** and Gupta, D. 2014. Studies on Tribe Gymnopleurini (Coleoptera: Scarabaeidae: Scarabaeinae) from Madhya Pradesh and Chhattisgarh with a checklist from India. *Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci.*, 84(2): 317-330 [IF: 0.931].
  12. **Chandra, K.** and Jehamalar, E. E. 2012. *Lathriobates manohardasi* sp. nov. (Hemiptera: Gerromorpha: Gerridae) from Tamil Nadu, India, with a key to the species. *Zootaxa*, 31(86): 64-68 [IF: 0.931].
  13. **Chandra, K.**, Kumar, H., Saini, J. and Ghosh, D. 2019. Review of the genus *Sikkimiana* Uvarov, 1940 (Orthoptera: Acrididae) with the description of a new species from India. *Journal of Natural History*, 53(1-2): 89-108 [IF: 0.834].
  14. **Chandra, K.**, Mazumder, A., Sanyal, A.K., Ash, A., Bandyopadhyay, U., Mallick, K. and Angshuman, R. 2018. Catalogue of Indian Notodontidae Stephens, 1829 (Lepidoptera: Noctuoidea). *Zootaxa*, 4505 (1): 001-084 [IF: 0.931].
  15. **Chandra, K.**, Saini, K., Sidhu, A.K. and Kubendran, T. 2021. "Mass Mortality of Migratory Birds, a Storyline" in *Zoological Survey of India, 2021: E-NEWS*, 23 : 16-17.
  16. **Chandra, K.**, Singh, N., Kumar, V., Ranjan, R., Gayen, S., Das, M. and Dey, R. 2019. The genus *Mustilizans* Yang, 1995 (Lepidoptera: Endromidae) in India with the description of a new species. *Zootaxa*, 4624(2): 183-190 [IF: 0.931].
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## BOOK CHAPTERS

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**Volume 22, Issue 2:** A Monograph on Indian Tenuipalpidae (Acari: Prostigmata) with their Economic Importance and Key to Genera and Species (Authors: S.K. Gupta and Pubalin Mandal).

**Volume 22, Issue 3:** Taxonomic revision and Distribution of family Lycaenidae (Papilionoidea: Lepidoptera) from Indian Himalaya (Authors: Avtar Kaur Sidhu and C. Kumar).

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**3. State Fauna Series**

**State Fauna Series 20: Fauna of Maharashtra -part- 3**

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**State Fauna Series, 24: Fauna of Haryana**

**State Fauna Series, 26: Fauna of Himachal Pradesh**

Part-1

Part-2

**4. Occasional Papers**

365: An Annotated Checklist of the Snappers (Pisces: Perciformes: Lutianidae) of India (by R.P. Barman and S.S. Mishra)

366: Studies on the Reptilian and Amphibians of the Loktak Lake, Keibur Lamjao National Park and its adjoining areas, Manipur (by Asem Bipin Meetei, Jennifer Lyngdoh, N. Sen and Bhaskar Saikia)

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- 371: Trichotaxonomy of Species of Lagomorpha (by Archana Bahuguna).
- 372: The genus *Mesodoryliimus* Andrassy, 1959 (Nematoda: Dorylaimida) A Monographic study (by Uzma Tauheed and Wasim Ahmad).
- 373: On the fauna of Pteromalidae (Hymenoptera: Chalcidoidea) of South Western Ghats (by P.M. Sureshan).
- 374: A Catalogue of Pisces in the collection of the Arunachal Regional Centre, ZSI, Itanagar, Arunachal Pradesh (by B. Sinha and L. Tamang).
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- 378: Revision of Indian Flat Bark Beetles Cucujidae and Laemophloeidae: Coleoptera: Insecta (by Pranabes Mukhopadhyay).
- 379: Assassin Bugs (Reduviidae: Heteroptera) from Chhattisgarh, India (by Paromita Mukherjee, Kailash Chandra, M.E. Hassan, B. Biswas and Sandeep Kushwaha).
- 380: Reef Associated common Crustaceans of Andaman and Nicobar Islands, Lakshadweep and Gulf of Mannar (by S. Kumarlingam, C. Raghunathan, T.T. Ajit Kumar and Kailash Chandra).
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- 383: Taxonomic Studies of small mammals (Scandentia, Rodentia, Soricomorpha and Chiroptera) of Madhya Pradesh (by S.S. Talmale).
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- 385: Sponges of Andaman and Nicobar Islands (by C. Raghunathan, Titus Immanuel, R. Raghuraman, K. Venkataraman).
- 386: Studies on the Succession and succession and Faunal Diversity and Ecosystem Dynamics in Nayachar Islands Indian Sundarban Delta (by A.K. Hazra, G.P. Mondal, M.K. Dey, A.K. Sanyal and A.K. Ghosh).
- 387: Fauna (Epibenthic and Epifauna) associated with Sea Grass Ecosystem in Palk Bay and Gulf of Mannar (by Rajkumar Rajan, K. Paramasivam, S. Shrinivaasu, C. Venkataraman, K. Venkataraman, P. Padmanaban, C. Surendar, Rajendra Kumar and J. Vanisree).
- 388: Studies on selected families of Hymenoptera (Apidae, Halictidae, Megachilidae, Scolidae and Vespidae) from Sunderbans Biosphere Reserve (Gaurav Sharma and Girish Kumar, P.).
- 389: Taxonomic Studies on the Scolopendrid Centipedes (Chilopoda: Scolopendromorpha) of Kerala State, India (by Dhanya Balan and P.M. Sureshan).

- 390: Status of corals and reef associated faunal communities in Rani Jhansi Marine National Park, Andaman and Nicobar Islands (by C. Raghunathan, Tamal Mondal, R. Raghuraman, S. Kumarlingam and J.S. Yogesh Kumar).
- 391: Status of coral and its associated fauna of Landfall Island, Peacock, Table Delgarno and Trilby Islands Sanctuaries, North Andaman (by C. Raghunathan).
- 392: Faunal diversity in major Seagrass Ecosystems in India (by Kailash Chandra, C. Raghunathan and Tamal Mandal).
- 393: Trematode fauna of freshwater fishes of India (by K.C. Pandey and Nirupama Agarwal).
- 394: Studies on Odonata and Lepidoptera fauna of Desert Ecosystem of Rajasthan (by Gaurav Sharma).
- 395: Fish Diversity of West Siang District, Arunachal Pradesh (by Bikramjit Sinha).
- 396: Catalogue of Oribatid Mites of India (by Asok Kanti Sanyal).
- 397: Trichotaxonomy and molecular study of small cats (Mammalia: Carnivora: Felidae) from ZSI collection listed under wildlife (Protection) act 1972 (by Archana Bahuguna).
- 401: Catalogue of Reduviidae (Hemiptera) of India
- 403: True Bugs of Central India, (Chhattisgarh and Madhya Pradesh).

## **5. STATUS SURVEY REPORT**

1. Status of Horseshoe Crab along East Coast of India (by Basudev Tripathy, Anil Mohapatra and Amit K. Mukhopadhyay).
2. Status of Western Hoolock Gibbon Hoolock hoolock (Primates: Hylobatidae) in Assam, India (by Uttam Saikia and Narayan Sharma).

## **6. FAUNA OF INDIA**

1. Homoptera: Aphidoidea (Subfamily Aphidinae Macrosiphini) Part-7(2) (by A.K. Ghosh and L.K. Ghosh).
2. Acari: Cryptostigmata OribateiInferiores (Paleosomata, Parhyposomata, Enarthronota, Mixonomata) (by Asok Kanti Sanyal).

## **7. HANDBOOKS AND PICTORIAL GUIDES**

1. Polyclads of Andaman and Nicobar Islands (By C.R. Sreeraj, C. Raghunathan, R. Raghunathan, Sudhanshu Dixit and K. Venkataraman).
2. Pictorial Handbook on Dipteran Fauna of Himachal Pradesh (P. Parui, G. Srinivasan and Dhriti Banerjee)
3. Faviids of Andaman and Nicobar Islands (by C. Raghunathan, Tamal Mondal and K. Venkataraman)
4. Handbook on Common Aquatic Coleoptera w.s.r. to family Gyrinidae, Noteridae, Dytiscidae and Hydrophilidae of India (by P. Mukhopadhyay)
5. Regne wale Jivon ki Sachitra Pustika (Bihar and Jharkhand) (by Gopal Sharma and Ramdhin Kumar)
6. Pictorial Hand on Damselies and Dragonflies (Odonata: Insecta) of Rajasthan (by Gaurav Sharma).

7. Birds of Andaman and Nicobar Islands (by C. Sivaperuman, G. Gokula Krishnan, J. Dinesh and P.T. Rajan).
8. Reef Fishes of Andaman and Nicobar Islands (by P.T. Rajan, N. Vikas, S.S. Mishra, Rajkumar Rajan and S. Sivaperuman).
9. A Pictorial Handbook on Some Lizards and Snakes of Western Ghats (by T.S.N. Murthy).
10. Skinks of Eastern and North-Eastern India (by Kaushik Deuti, Sujay Raha, Probhat Bag, Sudipta Debnath, Varadaraju and Kailash Chandra).
11. Antarctica A Mysterious Continent (by V.V. Gantait and K. Venkataraman).
12. Gorgonians of Indian Seas (by S. Antony Fernando, K. Venkataraman C. Raghunathan).
13. Thrips of economic Importance in India – An Identification Guide (by Kaomud Tyagi and Vikas Kumar).
14. Guide on some Marine Aquarium Fauna (by Anil Mohapatra and Prasad Chandra Tudu).
15. A guide to common Echinoids of Andaman & Nicobar Islands (by K. Venkataraman, C. Raghunathan, Tamalmondal and Naveen Kumar Nigam).

## **8. ECOSYSTEM SERIES**

1. Faunal Resources of Cold Desert Spiti Valley and Chandertal Lake.
2. Fauna of Narmada and Tapti Estuarine Ecosystem, Gujarat

## **9. SPECIAL PUBLICATIONS**

1. Zoology for Future Education and Research (by Arockiamary J. S., Marry Agnes A. and Vimala G.).
2. Catalogue of Marine Molluscs (Polyplacophora and Gastropoda): (by A. Dey).
3. Faunal Diversity of Dehradun District Uttrakhand (Part 1: Invertebrates) (by P.C. Tak, A.N. Rizvi, Promod Kumar and Narendra Sharma).
4. Faunal Diversity of Dehradun District Uttrakhand (Part 2: Vertebrates) (by Promod Kumar, Archana Bahuguna and P.T. Bhutia).
5. Fauna of Tawang, Arunachal Pradesh (by Gopinath Maheshwaran, S. Sharma, J. Thilak, J. Chitra, S. Sambath, B. Mitra and Kailash Chandra).
6. Current Status of Freshwater Faunal Diversity in India (Kailash Chandra, K.C. Gopi, D.V. Rao, K. Valarmathi and J.R.B. Alfred).
7. Fauna of Sundarban Biosphere Reserve (Kailash Chandra, J.R.B. Alfred, B. Mitra and Biswajit Roy Chowdhury).
8. Biography and Bibliography of Dr. T.C. Narendran (1944-2013) (Kailash Chandra, P.M. Sureshan and P. Girish Kumar).
9. Endemic Fauna of Andaman and Nicobar Islands (by D.V. Rao, Kailash Chandra and Kamla Devi).
10. Faunal Diversity of Indian Himalaya (by Kailash Chandra, Devanshu Gupta, K.C. Gopi, Basudev Tripathy and Vikas Kumar).
11. Atlas of Odonata (Insecta) of Western Ghats (by K.A. Subramaniam, K.G. Emiliyamma, R. Babu, C. Radhakrishnan and S.S. Talmale).
12. Current status of Estuarine biodiversity in India (by Kailash Chandra, C. Raghunathan and Sweta Padma Dash).



13. Chelonian types of National Zoological Collections (by Shantanu Kundu, Vikas Kumar, B.H.C.K. Murthy and Kailash Chandra).
14. Faunal Diversity of Biogeographic Zones: Islands of India (by Kailash Chandra, C. Raghunathan).
15. Manual Collection - Preservation and Identification of Soil Fauna (by Kailash Chandra, A.N. Rizvi, Shelly Acharya & C. Raghunathan).
16. Dentition in Indian Terrestrial Mammals (by M. Kamalakannan, C. Venkataraman & Kailash Chandra).
17. Faunal diversity of Mangrove ecosystem in India (by Kailash Chandra, K. C. Gopi, S.S. Mishra & C. Raghunathan).
18. Tricho-taxonomy of Indian mammals (Carnivores, Artiodactyls, Primates, Giant Squirrels, Lagomorphs & Pangolins) (by M. Kamalakannan, C. Venkataraman & Kailash Chandra).
19. Faunal Diversity of Biogeographic Zones: Trans-Himalaya (by Kailash Chandra, Kaur, A., Kubendran, C. Raghunathan).

#### **10. CONSERVATION AREA SERIES**

1. Faunal diversity of Kalatap-Khajjiar Wildlife Sanctuary (District Chamba, Himachal Pradesh).
- 2.
3. Faunal Diversity of Veeragana Durgawati Wildlife Sanctuary, District Damoh Madhya Pradesh.
4. Faunal Diversity of Singhori Wildlife Sanctuary, District Raisen, Madhya Pradesh.
5. Fauna of Kanyakumari Wildlife Sanctuary, Tamil Nadu
6. Fauna of Phansad Wildlife Sanctuary, Maharashtra.
7. Fauna of Sultanpur National Park, Haryana.
8. Faunal Diversity of Great Nicobar Biosphere Reserve.
9. Faunal Diversity of Malabar Wildlife Sanctuary.
10. Faunal Diversity of Chail Wildlife Sanctuary, District Solan, Himachal Pradesh.
11. Faunal Diversity of Kachchh Biosphere Reserve, Gujarat (Vertebrates).
12. Fauna of Namdapha Tiger Reserve, Arunachal Pradesh

#### **11. WETLAND ECOSYSTEM**

1. Faunistic and Limnological Studies on Palar Lake Khammam District Andhra Pradesh.
2. Faunal Studies of Krishnaraja Sagar Reservoir, Karnataka w.s.r. to Zooplankton, Aquatic Insects and Fishes.
3. Faunistic Studies on Cumbum Lake Prakasam District, Andhra Pradesh w.s.r. to Zooplankton, Aquatic Insects and Fishes.
4. Faunal Diversity of River Subrnarekha in Jharkhand, West Bengal and Odisha.

#### **SEMINAR / SYMPOSIA / CONFERENCE / WORKSHOPS (NATIONAL AND INTERNATIONAL) ORGANIZED**

Seminars :	<b>05</b>
Symposia :	<b>02</b>
International	<b>01</b>

workshop :	
Workshops :	<b>12</b>
Training programme :	<b>05</b>

### **Seminar organised**

1. Organized a “National Seminar on Environmental changes and its impact on Faunal Diversity in Indian Agro-Ecosystems in Ludhiana”, in collaboration with Punjab Agriculture University, Ludhiana, Punjab from 17.11.2018 to 19.11.2018 and presented a keynote address as Chief Guest.
2. Organized a seminar in which Dr Maanasa Raghavan, Assistant Professor at the University of Chicago, delivered “the Paleogenomics Revolution and our Molecular Past” at Annandale Hall, ZSI, HQs Kolkata on 01.07.2019.
3. One day seminar on the faunal diversity of central highlands was organised at CZRC, ZSI, Jabalpur on 25<sup>th</sup> October 2019. Mrs Manju Pandey, Joint Secretary, MOEF&CC, New Delhi inaugurated the habitat showcases of faunal diversity of Central Highlands.
4. Organized the National Webinar on “*Parasitic and Vector Borne Diseases and their Control*” organized by Chaudhary Bansi Lal University, Bhiwani and Zoological Survey of India on 23rd December 2020.
5. Organized a ‘National Conference on Deep Sea Bio-resources in the Indian Ocean’ at ZSI, HQs. Kolkata on 25<sup>th</sup> & 26<sup>th</sup> February 2021. Shri Prakash Javadekar, Hon’ble Cabinet Minister MoEFCC, Government of India inaugurated the conference and also released the book titled ‘Deep Sea Faunal Diversity of India’ via video conferencing.

### **Symposia Organised**

1. The “**6<sup>th</sup> Asian Lepidoptera Conservation Symposium (ALCS 6)**” at ZSI, HQs., Kolkata was organised from 17.09.2019 to 21.09.2019. Three days field survey-cum-workshop was organised at Dalma Wildlife Sanctuary, Jharkhand from 17.09.2019 to 19.09.2019 during the programme. Following papers were presented during the symposium.
2. A symposium was organized on “**Conserving Faunal Biodiversity through Long Term Monitoring of Himalayan Landscape**” at GBPHED, Almora, Uttarakhand from 8<sup>th</sup> December 2019 to 12<sup>th</sup> December 2019.

### **International Workshop Organised**

1. Organised an “**International Workshop on Social Network of Animals in Extreme Environment of Antarctica with special reference to Penguins**” jointly with Ministry of Earth Sciences at Port Blair, Andaman & Nicobar Island from 22<sup>nd</sup> to 24<sup>th</sup> April 2019.

### **Workshops Organised**

1. One-day **workshop** was organized on the project ‘Conservation of Threatened Vertebrate Fauna in Indian Himalayan Region through Long-term Monitoring and Capacity Building’ on 26<sup>th</sup> April 2018 at Dehradun.
2. Organised four days “Orientation **Workshop** on Collection, Preservation and Identification of Zoological Specimens” at Zoological Survey of India, H.Qs. from 8<sup>th</sup> October to 11<sup>th</sup> October 2018.
3. Organised two days “National **Workshop** on Recent Trend in Taxonomy” at Zoological Survey of India, Jodhpur under the aegis of All Indian Coordinated Project on Taxonomy from 10-11 January 2019.
4. Organised two days **Workshop** on “Wildlife Forensics and Crime Control” at ZSI, Hqs., Kolkata from 21<sup>st</sup> and 22<sup>nd</sup> January 2019.
5. Organised two days “National **Workshop** on Taxonomy of Thysanoptera (Insecta)” at ZSI, Hqs., Kolkata from 08<sup>th</sup> and 09<sup>th</sup> February 2019.
6. Organised capacity building **workshop** at Itanagar, Arunachal Pradesh from 31.03.2019 to 01.04.2019 and a keynote lecture was delivered on ‘*Overview of Faunal Diversity of India Himalayas*’.
7. A Capacity Building **Workshop** under National Mission of Himalaya Studies was organised at Itanagar, Arunachal Pradesh from 30.03.2019 to 01.04.2019.
8. Organised the Regional Workshop on “*Conservation and Management of Wetland (Eastern States)*” organised under the aegis of the National River Conservation Directorate of the MOEFCC from 26.09.2019 to 27.09.2019. A field visit to Sundarban Biosphere Reserve was also organised during the programme.
9. The National Workshop on ‘*Biorock Restoration and Deployment of Biorock Structure*’ was organised by Zoological Survey of India and Gujarat Forest Department at Gulf of Kachchh, Gujarat from 17<sup>th</sup> January 2020 to 19<sup>th</sup> January 2020.
10. An ‘*Orientation Workshop on Methodology for Collection, Preservation and Curation of Zoological Specimens for Biodiversity Studies*’ was organised at Zoological Survey of India, Kolkata on 23<sup>rd</sup> to 24<sup>th</sup> January 2020.
11. *Hands-on Training Workshop on Animal Taxonomy*’ was organised at North-East Regional Centre, Shillong, Meghalaya from 12<sup>th</sup>-14<sup>th</sup> February 2020.
12. National Workshop on Taxonomic Identification of Indian Bees was organised by ENVIS Centre on Biodiversity (Fauna), Zoological Survey of India, Kolkata in collaboration with The of Pollination Studies, University of Calcutta, National Centre for Biological Studies, Bengaluru and University of Agriculture Sciences, Bengaluru from 2<sup>nd</sup> – 3<sup>rd</sup> March 2020.

### **Training Programmes Organized**

1. A training programme on “*Insect Collection and Preservation Techniques*” was organized at Central Zone Regional Centre, Zoological Survey of India, Jabalpur in March 2001 and candidates from Tropical Forest Research Institute and State Forest Research Institute participated.
2. Organized “*National Conference on Faunal Diversity in Indian Land and Seascape*” was by Zoological Survey of India at Prani Vigyan Bhawan, New Alipore, Kolkata from 30<sup>th</sup> June 2016 to 2<sup>nd</sup> July 2016.
3. Two days of training workshop on “*Skills and Techniques of Taxidermy*” was organised at Hqs, ZSI, Kolkata on 8<sup>th</sup> and 9<sup>th</sup> September 2017.

4. Organised two days training programme on “GIS and Remote Sensing and its Application in Zoological Research” from 9-10 August 2018 at ZSI, HQs.
5. Organised two days “Hands-on Training on the Collection, Preservation and Identification of Soil Fauna” at ZSI, HQs., from 28.03.2019 to 29.03.2019 and keynote lecture was delivered on ‘Faunal Diversity of India w.r.t. Soil Fauna of India’.

**SEMINAR / SYMPOSIA / CONFERENCE / WORKSHOPS (NATIONAL AND INTERNATIONAL) ATTENDED**

Seminars/Webinars	<b>40</b>
Symposia	<b>10</b>
International Conferences	<b>23</b>
Conferene	<b>18</b>
Workshops	<b>45</b>
Training programmes	<b>07</b>

**Seminars/Webinars**

1. Attended the Seminar on “Environment Protection, People and Law” organized by the C.P.R. Environmental Education Centre, Madras at Port Blair in 1994.
2. Attended “Indian Science Congress” at Patiala (Punjab) in January 1996 and presented an Abstract on “Diversity of Insects in Bay Islands.”
3. Attended “Indian Science Congress” at Delhi University, Delhi from 3 to 8 January 1997 and presented a paper on “Lace Bugs of Andaman and Nicobar Islands.”
4. Attended the Seminar on “Development of Andaman’s as an Eco-friendly Beach Resorts” and presented a paper on “Eco-friendly Coastal Tourism in Andaman and Nicobar Islands on 25<sup>th</sup> July 1997, organized by the Andaman and Nicobar Administration at Port Blair.
5. Attended the Seminar on “Botanical Survey of India and Zoological Survey of India in the next Millennium, organized by the Ministry of Environment and Forests, Govt. of India, New Delhi on 17<sup>th</sup> & 18<sup>th</sup> March, 1999.
6. Attended the Seminar on “Policy Planning and Techno-Regulatory Input for Solid Waste Management” at Bhopal in March 2001, organized by the EPCO, Bhopal.
7. Attended the Annual Research Seminar of Wildlife Institute of India, at Dehradun on 22<sup>nd</sup> and 23<sup>rd</sup> September, 2005.
8. Attended the Madhya Pradesh Science Congress on 10<sup>th</sup> Dec. 2006 and presented the paper on ‘Faunal Diversity of Madhya Pradesh and Chhattisgarh on 10<sup>th</sup> December 2006.
9. Attended Indian Science Congress from 3<sup>rd</sup> to 6<sup>th</sup> January 2006 at Hyderabad and presented the paper on “Scarabaeid beetles of Achanakmar Wildlife Sanctuary, Chhattisgarh”
10. Attended a seminar on ‘Recent Trends in Taxonomy and Biodiversity Conservation in India’ at Zoological Survey of India, New Alipore, Kolkata- 700053 on 1<sup>st</sup> May, 2010 and also participated as ‘Reportaur’ for the Technical Session No.1: Taxonomy and Faunal Conservation: Invertebrates.

11. Attended the National Seminar on 'Impact of Climate Change on Biodiversity and Challenges in Thar Desert' at Desert Regional Centre, ZSI, Jodhpur on 9<sup>th</sup> July, 2010.
12. Attended the Inaugural Programme of 'National Seminar on Current Advances in Biosciences: Application of Health, Environment and Agriculture.' Held at Hitkarini Mahila Mahavidyalaya, Jabalpur on 23<sup>rd</sup> November 2010.
13. Attended the International Day for Biological Diversity : Theme – Island Biodiversity at Indian Museum Ashutosh Birth Centenary Hall, Kolkata 69organized by the West Bengal Biodiversity Board on 22<sup>nd</sup> May 2014.
14. Attended the inauguration of Eastern Zone Bench of National Green Tribunal and Seminar on Environment, Society and Sustainable Development at Rabindra Tirth, New Town, Kolkata on 24<sup>th</sup> May 2014.
15. Attended the inaugural programme of Seminar on 'Excitement in Taxonomy and Ethno-botany for Young Researchers' 69organized by Botanical Survey of India on 19<sup>th</sup> June, 2014 at Ashutosh Birth Centenary Hall, Indian Museum, Kolkata.
16. Attended the inaugural and valedictory programme of workshop on 'Monsoon Photography 'organised by the Training and Extension Division, ZSI at Annandale Hall, ZSI HQs, Kolkata on 14<sup>th</sup>& 15<sup>th</sup> July, 2014.
17. Attended the workshop on 'National Biodiversity Targets' organized by the Wildlife Institute of India, Dehradun and IUCN, India Chapter, held at India International Centre, New Delhi on 26-27 June 2014.
18. Attended the Seminar on Faunal Diversity of Bihar and Jharkhand" organised at Gangetic Plain Regional Centre, Zoological Survey of India on 30<sup>th</sup> December 2015.
19. Zoological Survey of India hosted the Session on 'Climate Change Adaptations in Coastal Areas) and presented the paper on 'Coastal Biodiversity and Impact of Climate Change' during the Side Event- Indian Pavilion, 22<sup>nd</sup> Session of Conference of Parties, Marrakech, Morocco on 17<sup>th</sup> November 2016 (11 AM to 13.00 PM), organised by Zoological Survey of India, MOEFCC, Govt. of India.
20. Attended the Seminar on 'Zoology at Crossroads' at Vidyasagar University, Midnapore, West Bengal on 09.03.2017 as a Chief Guest and a presentation on Biodiversity Conservation was also made during the occasion.
21. Attended the Conference on 'Management and Conservation of Sea Grass Ecosystems', organised by the MoEFCC and GIZ, at India Habitat Centre, Lodhi Road, New Delhi on 12<sup>th</sup> July 2016.
22. Delivered an invited lecture on 'Biodiversity Awareness and Sustainable Development' during the National Seminar on 27.10.2016 at 3.00 PM, organised in P.G. Department of Zoology, Berhampur University, Berhampur, Odisha.
23. Attended the Environment and Development in Eastern India (Status, Issues and Challenges) and presented a lead paper 'India: A Mega-diversity Country: Resource of the Future World, organized in Ranchi on 16.12.2016 and 17.12.2016.
24. Attended the Seminar on Autodissemination, Heterodissemination and other advance surveillance and control techniques organised at ZSI, HQs, Kolkata on 31st May 2017. Prof. Randy Gaugler, Distinguished Professor, Center for Vector Biology, Rutgers University, New Jersey, USA and Dr. Yi Wang, Senior Scientist, Dept. Of Entomology, Rutgers University, New Jersey, USA delivered the lectures.
25. One day "National Seminar on Status and Diversity of Pollinators in India" under ENVIS Centre on Biodiversity (Fauna), Zoological Survey of India, Kolkata at Annandale Hall on 08.03.2019 was organised.

26. One-day seminar on the visit of Dr Graham Oliver, National Museum of Wales, UK, Dr David Checkley, Scripps Institute of Oceanography, USA, and Dr Bijoy Nandan, Professor & Head, Deptt. Of Marine Biology, CUSAT, Kochi at Annandale Hall, ZSI, HQs., Kolkata on 13.03.2019 was organised. Lectures were delivered on Molluscs and Pelagic Fishes, and Deep-Sea Benthos.
27. Attended one-day seminar on “Integrated Coastal Zone Management-Experience and Way Forward”, organized by the State Project Management Unit-ICZMP, West Bengal on 31<sup>st</sup> October 2018, held at Biswa Bangla Convention Center, New Town, Kolkata.
28. Attended as Guest of Honour and delivered a keynote address in the “National Seminar on Taxonomy, Biodiversity & Conservation”, organized by PG and Research Department of Advanced Zoology and Biotechnology, Loyola Institute of Frontier Energy (LIFE), Loyola College, Chennai, in collaboration with Zoological Survey of India, Kolkata at Loyola College, Chennai, Tamil Nadu on 11.02.2019.
29. Attended Webinar on Forest Certification organised by Network for Certification and Conservation of Forests (NCCF) on 19th May 2020; and online Meeting for the Long Term Ecological Observatories (LTEO) project under the ongoing central sector scheme of Climate Change Action Plan, the Ministry of Environment, Forest and Climate Change (MoEFCC) on Saturday, May 02, 2020 from 3 to 6 pm.
30. Addressed the ‘National Webinar on Aquatic Entomofaunal Diversity in India’ as a keynote speaker, organized by FBRC, ZSI, Hyderabad on 3rd September, 2020.
31. Addressed the ‘National Webinar on Taxonomy and its Application’ as a Keynote speaker, organized by WRC, ZSI, Pune on 9th September, 2020.
32. Addressed the webinar on ‘Butterfly Conservation in India’ organized by the Department of Zoology, Ravenshaw University in collaboration with Big Butterfly Monitoring Network, a consortium of conservation organizations, India, while celebrating the Big Butterfly Month, on 9th September 2020.
33. Addressed the webinar on the ‘Impact of Climate Change on Pollinators of High Altitudes of North-West Himalayas’ as a keynote speaker organized by ZSI, HARC, Solan, H.P. on 16th September, 2020, on the occasion of ‘International Day for the Preservation of Ozone Layer.
34. Addressed the National Webinar on the occasion of ‘International Day for the Preservation of Ozone Layer’ as a keynote speaker organized by ANRC, ZSI, Port Blair on 16th September, 2020.
35. Convened the webinar on the Red Panda on the occasion of International Red Panda Day organized by Amity Institute of Forestry & Wildlife (AIFW) & ZSI in collaboration with Society for Conservation Biology (SCB), India Chapter on 19<sup>th</sup> September, 2020.
36. Addressed the Key Note address on ‘Grassland Ecosystem in Arid Zone of India: A faunal Diversity Perspective’ during the National Webinar organized by the Desert Regional Centre, ZSI, Jodhpur on 19th September 2020.
37. Addressed the ‘National Webinar on Wetland Fauna of Gangetic Plains: Status and Conservation Challenges’ as a keynote speaker on 21st September, 2020, organized by GPRC, ZSI Patna.
38. Presented the keynote address in the “National Webinar on Beetle (Insecta: Coleoptera) Diversity of India” on 1st October, 2020.
39. Addressed the inaugural speech on the National Webinar and Online Essay Writing Contest on 16th September, 2020, organized by ENVIS, ZSI HQs, Kolkata.
40. Delivered keynote on the ‘Impact of Invasive Alien Species on Biodiversity Conservation’ in a webinar organized by Southern Regional Centre, ZSI, Chennai on

- 4th November, 2020; Delivered a keynote lecture in the 'National Webinar on Soil Fauna of India- Exploring the Unexplored' via video conferencing on 11th November, 2020, organized by Training and Extension Division, ZSI, Kolkata.
41. Delivered a keynote address in the webinar on "Biodiversity Conservation: Issues and Challenges" through video conferencing on 2nd December, 2020.
  42. Delivered a keynote address in the webinar on "Biodiversity Heritage, People, Culture and Self-reliant Rural India, IISF-2020" via video conferencing on 23rd December, 2020.
  43. Inaugurated the "National Webinar on Herpetology" via video conferencing on 20th January 2021.

### **Symposia**

1. Attended the National Symposium on "Farming Systems for Sustained Productivity in Humid Tropics" on 16<sup>th</sup> December, 1991 at Port Blair, organized by the State Council of Science & Technology and Andaman Science Association, Port Blair.
2. Attended the "National Symposium on "Island Ecosystem and sustainable Development" at Port Blair on February 1996, organized by the State Council of Science & Technology and Andaman Science Association, Port Blair.
3. Attended the symposium on "Tribal Health and Nutrition" on 27<sup>th</sup> February, 1998 by Indian Council of Medical Research and Andaman and Nicobar Administration at Port Blair.
4. Attended the symposium on "Biodiversity Conservation" at Bhopal and presented a paper on "Faunal Biodiversity in Madhya Pradesh" on 26<sup>th</sup> February 1999, organized by the State Council of Science & Technology, Madhya Pradesh.
5. Attended a National Symposium on "Biodiversity Conservation and Management with special emphasis on Biosphere Reserve" in November 2000 at Bhopal and presented two papers on "Faunal Diversity of Pachmarhi Biosphere" and "On a collection of Butterfly fauna from Pachmarhi Biosphere Reserve", organized by the EPCO, Bhopal.
6. Attended the National Symposium on "Management of Degraded Forests for Productivity Enhancement and Carbon Sink Expansion" held on 15<sup>th</sup> & 16<sup>th</sup> January, 2003 at Tropical Forest research institute, Jabalpur.
7. Attended the National Symposium on 'Emerging Technologies and Their Application in Assessment, conservation and Management of threatened Wild Medicinal Plants and their Habitats, at State Forest Research Institute, Jabalpur on 23<sup>rd</sup> February, 2005.
8. Attended the 'National Symposium on Advancement in Indian Entomology, Productivity and Health, at Haridwar from 2<sup>nd</sup> to 4<sup>th</sup> October 2005 and a paper on 'The Butterflies (Lepidoptera: Rhopalocera) of Kangerghati National Park (Chhatisgarh)' was presented.
9. Attended the Symposium on Advancement in Entomology, from 3<sup>rd</sup> to 5<sup>th</sup> February 2006 at Kurukshetra University, Kurukshetra and a paper on 'Endemic Insects of Andaman & Nicobar Islands' was presented.
10. Attended 'National Symposium on Tribal Health' on 19<sup>th</sup> October, 2006, which was organized by the 'Regional Medical Research Centre for Tribal Research, Jabalpur'.

### **International conference**

1. Attended the '**International Conference** on Bird and Environment' from 21<sup>st</sup> to 24<sup>th</sup> Nov. 2004 and presented the paper on 'Avifauna of Jabalpur District, Madhya Pradesh' held at Gurukul Kangri University, Haridwar

2. Abstract submitted for oral presentation in '**International Conference** on Biodiversity of Insects: Challenging issues in Management and Conservation (BIMC, 2006) 30<sup>th</sup> January to 3<sup>rd</sup> February 2006. Incidence of white grubs, *Schizonycha ruficollis* (Fabricius) (Coleoptera: Scarabaeidae) on teak seedlings at Nagpur, Maharashtra and its Management.
3. Attended '**First South East Asian Lepidoptera Conservation Symposium**' at Hong Kong from 5<sup>th</sup> to 8<sup>th</sup> September 2006 and presented a paper on "Moth Diversity of Madhya Pradesh and Chhattisgarh and its Conservation Measures" during the symposium.
4. Participated in the **International Workshop** on 'Molecular Epidemiology and Immunology of Malaria and other Vector Borne Diseases on 16<sup>th</sup> to 19<sup>th</sup> October 2007 at ICMR, RMRCT, Jabalpur.
5. Attended **International Conference** on Recent Trends in Biodiversity and Biotechnology, organized by Dr Babasaheb Ambedkar Marathwada University, Aurangabad from 15<sup>th</sup> to 17<sup>th</sup> Nov.2007 and presented the paper on 'Butterfly Diversity of Madhya Pradesh and the Chhattisgarh States.
6. Attended the **International Conference** on Entomology, held at Department of Zoology & Environmental Sciences, Punjabi University, Patiala from 21<sup>st</sup> to 23<sup>rd</sup> February 2014 and presented a plenary lecture during Plenary Session X on 22.02.2014. Also chaired the scientific session II of International Conference on Entomology (Agricultural Entomology) on 22.02.2014.
7. Attended the **IUCN World Conservation Congress** held at Hawaii from 1<sup>st</sup> to 10<sup>th</sup> September 2016 and participated in various workshops, seminars and symposia.
8. Participated the **CoP 22** Side Event on 'Impact of Climate Change on Himalayan Ecosystem Biodiversity' held at Marrakech, Morocco from 16<sup>th</sup> to 17<sup>th</sup> November 2016.
9. Participated in the side event during **CoP-13** to the CBD in Cancun, Mexico from 11.12.2016 to 12.12.2016 and a presentation was made on 'Faunal Diversity in large landscapes-Achievements and Future Strategies' during the session 'Achieving Conservation Outcomes through Integrated Landscape Approaches' organised by the Wildlife Institute of India.
10. Attended and presented the paper on 'Impact of Climate Change on Himalayan Biodiversity' during the 22<sup>nd</sup> Session of Conference of Parties, Side Event on Impact of Climate Change on Himalayan Ecosystem" in Indian Pavilion, Marrakech, Morocco on 17<sup>th</sup> November 2016 (15.00 PM to 17.00 PM), organised by the G. B. Pant National Institute of Himalayan Environment and Sustainable Development.
11. Attended the '**International Conference on Entomology**' in the Punjabi University, Patiala on 03.12.2016 and presented a plenary lecture organised by the Department of Environmental Sciences in collaboration with Association of Entomologists, Patiala.
12. Participated in the **6<sup>th</sup> International Symposium** on "Biodiversity and Natural Heritage of the Himalayas" at Erfurt/Thuringia, Germany from 21<sup>st</sup> to 23<sup>rd</sup> April, 2017 and presented a paper on "Knowing the unknown in Indian Himalayan Landscape: An Initiative by Zoological Survey of India" during the first technical session on 21<sup>st</sup> April 2017.
13. Attended the '**7<sup>th</sup> International Barcode of Life Conference**' from 20.11.2017 to 24.11.2017 in Kruger National Park, South Africa. A presentation titled 'DNA Barcoding in India: An Initiative by Zoological Survey of India' was made on 22 Nov. 2017 during



- the Technical Session and also chaired the technical session of 'Biodiversity Surveys' at 15.30 Hrs.
14. Participated in the “**8<sup>th</sup> International Barcode of Life Conference**” held at Trondheim Norway from 15.06.2019 to 23.06.2019. Three papers and posters were presented on occasion from ZSI.
  15. Participated in the **6<sup>th</sup> International Symposium on “Biodiversity and Natural Heritage of the Himalayas”** at Erfurt/Thuringia, Germany from 21<sup>st</sup> to 23<sup>rd</sup> Aril, 2017 and presented a paper on “Knowing the unknown in Indian Himalayan Landscape: An Initiative by Zoological Survey of India” during the first technical session on 21<sup>st</sup> April 2017.
  16. Participated in the ‘**5<sup>th</sup> Asian Lepidoptera Conservation Symposium (ALCS-5)**’, held at University of Hong Kong, Hong Kong from 12.12.2018 to 16.12.2018 presented an invited talk on “Lepidoptera as Potential Indicator taxa for Climate change: An initiative undertaken in Indian Himalayan Landscape” along with on other topics from ZSI;
    - Altitudinal and Biogeographic Distribution of Indo-Chinese Genus *Psyra* (Geometridae: Ennominae) from Indian Himalaya;
    - Pyraloidea (Pyralidae & Crambidae) assemblage along with biogeographic provinces of Indian Himalaya;
    - Notodontidae of Indian Himalayan Region: A spatial approach;
    - Smaller wing size & darker colour: High altitude adaptation of genus *Abraxas* across various provinces of India Himalaya;
    - Up below or go below? Altitudinal changes in species of Noctuidae restricted to Alpine areas of India Himalaya;
    - Butterfly assemblage of Himalayan high altitudes: a model system to investigate effect of climate change on restricted-range species;
    - What defines structure & diversity of moth assemblage in an altitudinal gradient; An experiment in Western Himalaya, India.
  17. Participated in the “*8<sup>th</sup> International Barcode of Life Conference*” held at Trondheim Norway from 15.06.2019 to 23.06.2019. Three papers and posters were presented on occasion from ZSI.
  18. Attended the 7<sup>th</sup> HSCA International Conference on “Chemical, Physical and Biological Sciences” as Chief Guest at Chitkara University, Himachal Pradesh on 20<sup>th</sup> October 2019.
  19. Attended in the ‘*Conference of the Parties to the Convention on the Conservation of Migratory Species of Wild Animals-COP 13*’ at Gandhinagar, Gujarat from 15<sup>th</sup>-20<sup>th</sup> February 2020.
  20. Attended the inaugural Programme of Meeting of Pollinator Researchers in Asia, organised by Centre of Pollination Studies, at Calcutta University, Kolkata on 27<sup>th</sup> February, 2020.
  21. Participated and chaired a session in the “*107<sup>th</sup> Indian Science Congress: Pride of India Expo*” held at the University of Agriculture Sciences (UAS), Bangalore from 3<sup>rd</sup> January, 2020 to 5<sup>th</sup> January 2020.
  22. Attended an “*International Workshop on Social Network of Animals in Extreme Environment of Antarctica with special reference to Penguins*” organised jointly by

Zoological Survey of India, and Ministry of Earth Sciences at Port Blair, Andaman & Nicobar Island from 22<sup>nd</sup> to 24<sup>th</sup> April 2019.

23. Chaired the meeting for IUCN Red list Assessment of Indian Fauna through video conferencing on 14<sup>th</sup> October, 2020, organised by ZSI, Kolkata.

**National Conference:**

1. Attended the conference on “Environmental Education: Needs of the Andaman and Nicobar Islands” and presented a paper on “Biodiversity conservation, An Environmental concerns of Andaman and Nicobar Islands” on March 6<sup>th</sup>, 1997 at Science and Technology Bhawan, Port Blair.
2. Attended the 1<sup>st</sup> Conference on Medical Arthropodology: Taxonomy in Biodiversity, Bioterrorism & Biotechnology, at Centre for Research in Medical Entomology, ICMR, Madurai from 1<sup>st</sup> to 2<sup>nd</sup> September, 2007.
3. Attended the National Conference on “Role of Bio-pesticides, Bioagents and Biofertilizers for sustainable Agriculture and Horticulture, February, 13-16, 2004. Lucknow. And presented the paper on ‘Birds as Insect Biocontrol Agents: A study in Pench Tiger Reserve in Madhya Pradesh’
4. Attended the National Conference on Biodiversity & Biotechnology “Biodiversity Resources Management & Sustainable Development” on 16<sup>th</sup>& 17<sup>th</sup> November 2010 at Govt. M.S. Golwalkar College, Rewa (M. P.), India and presented two papers during the conference.
5. Attended the ‘ National Conference on Insect Diversity and Systematics: Special Emphasis on Molecular Approaches ( NCIDS) at Aligarh Muslim University, Aligarh 74organized by the department of Zoology (Entomology Section) from 28<sup>th</sup> to 30<sup>th</sup> October 2013 and presented a invited lecture on ‘State of Information on ‘Insect Diversity of States and Union Territories in India and Challenges Ahead’ during the conference.
6. Attended the ‘National Conference on Biodiversity: Issues, Concern and Future Strategies’ held at Kolkata from 16<sup>th</sup> to 18<sup>th</sup> January 2014 organized by West Bengal Biodiversity Board and also chaired the Technical Session on Bio-resources, Ethno-biodiversity and Livelihood Generations, Climate Change and Biodiversity on 18<sup>th</sup> January 2014.
7. Attended a Workshop on “Effective and inclusive Management of Marine and Coastal Ecosystems to Promote Human Well-being and Sustainable Development” organised by the NITI AYOOG at CMFRI, Kochi on 04.07.2017
8. Attended the Workshop on National Mission on Himalayan Studies (NMHS) at MOEFCC, Paryavaran Bhawan, New Delhi on 06.07.2017.
9. Organised and participated in the “National Workshop on Coral Reef Ecosystem in West Coast of India’ at Jamnagar from 11.07.2017 to 14.07.2017
10. Attended the 27<sup>th</sup> Meeting of the State Level Steering Committee for Sundarban Biosphere Reserve Management at Salt Lake, Govt. of West Bengal, Directorate of Forests office on 19.07.2017.
11. Attended the Management Development Training Programme on Government e-Marketplace (GeM) at Baini Prashad Hall, Zoological Survey of India, Headquarters on 21.07.2017
12. Attended an International Council of Scientific Unions (ICSU) meeting at INSA, New Delhi on 24.07.2017

13. Attended the XXXIII Meeting of the ‘Training, Research & Academic Council, (TRAC) of the Wildlife Institute of India (WII), Dehradun held 7<sup>th</sup> September 2017.
14. Attended the “International Conference on Status and Protection of Coral Reefs” jointly organized by Administration of the Union Territory of Lakshadweep and Zoological Survey of India, at Bangaram Island at Lakshadweep/Kavaratti from 20.10.2018 to 25.10.2018.
15. Attended as Chief Guest the 11<sup>th</sup> National Conference of Medical Arthropodology on “Vector-Borne and Zoonotic Diseases: Surveillance & Control under dynamics of global warming, climate change and environment” organised by the Department of Zoology, D.A.V. (PG) College, Dehra Dun on 26-27 October 2018.
16. Attended as Chief Guest a three day International Conference on “Changing Contours of Blue Economy - Promises and Challenges (ICBE- 2019)” at Faculty of Marine Sciences, Annamalai University, Parangipettai, Tamil Nadu on 5<sup>th</sup> and 6<sup>th</sup> February 2019.
17. Attended as Chief Guest and delivered a keynote address in “National Conference on Frontiers in Environment, Health and Biosciences” organised by Institute of Biosciences & Biotechnology, CSJM University, Kanpur, Uttar Pradesh from 15<sup>th</sup> -17<sup>th</sup> February 2019.
18. Attended the “Biodiversity Conclave” and presented a paper on ‘Biodiversity Heritage, People, Culture and Livelihood’, organized by National Botanical Research Institute, Lucknow on 23<sup>rd</sup> December, 2020.

### **Workshops**

1. Attended the Regional Workshop on the Conservation and Sustainable Management of Coral reefs “from 15<sup>th</sup> to 17<sup>th</sup> December, 1997 at Swaminathan Research Foundation, Chennai.
2. Attended the National Workshop on “Tropical Rain Forests of India” at Coimbatore on Feb/March 2001 and presented a paper on “Moth Diversity of Andaman and Nicobar Islands”.
3. Attended the ‘Workshop on Wetlands of Central India” at Bhopal from 15<sup>th</sup> to 17<sup>th</sup> June, 2004 organized by the Forest Department, Madhya Pradesh.
4. Attended the Inaugural Session of Indo-US workshop on ‘Cerebral Malaria Associated Neurological Disorders in India’ at ICMR, Jabalpur on 3<sup>rd</sup> October, 2004.
5. Attended the workshop on ‘Achanakmar-Amarkantak Biosphere Reserve, at Raipur on 27<sup>th</sup>& 28<sup>th</sup> January, 2005 organized by the Forest Department, Chhattisgarh.
6. Participated in National Workshop on ‘Conservation and Sustainable Utilization of Bio-resources of Satpuranchal, Madhya Pradesh’ on 23<sup>rd</sup> August 2005.
7. Attended workshop on ‘Process of making of Peoples Biodiversity Register (PBR) of Satpuranchal and Bundelkhand Biodiversity at SFRI, Jabalpur, organized by the State Biodiversity Board, M.P. on 26<sup>th</sup> Sept. 2006.
8. Attended the ‘Lecture Workshop on Molecular Biology’ organized by Indian Institute of Science, Bangalore, from 1<sup>st</sup> March to 5<sup>th</sup> March, 2007 at Coorg. The workshop was sponsored jointly by the Department of Biotechnology, Govt. of India and Indian Academy of Sciences, Bangalore.
9. Participated in the International Workshop on ‘Molecular Epidemiology and Immunology of Malaria and other Vector Borne Diseases on 16<sup>th</sup> to 19<sup>th</sup> October 2007 at ICMR, RMRCT, Jabalpur.
10. Attended the ‘An Interface Workshop on Microbial Systematics and Diversity’ on 14<sup>th</sup>

- March 2007 at Rani Durgavati Vishwavidyalaya, Jabalpur
11. Attended the Workshop on Research Needs for Achanakmar-Amarkantak Biosphere Reserve on 30<sup>th</sup> April, 2007 and presented a paper on “Faunal Diversity of Achanakmar – Amarkantak Biosphere Reserve”.
  12. Attended the National workshop to discuss draft of “India’s Fourth National Report (FNR) to the Convention on Biological Diversity (CBD) at UNDP, Campus, Lodhi Estate, New Delhi on 24<sup>th</sup> February 2009.
  13. Attended the “National Workshop for Development of Chhattisgarh State CAMPA Vision 2020” at Raipur, Chhattisgarh on 12<sup>th</sup> and 13<sup>th</sup> October, 2010.
  14. Attended the inaugural session of “Training Workshop on Capacity Building of Administrative and Scientific Staff of Zoological Survey of India, organized by the Training and Extension Division, ZSI, Kolkata from 21<sup>st</sup> to 23<sup>rd</sup> August, 2014.
  15. During the workshop on ‘Scanning Electron Microscopy in Animal Taxonomy’ organized by the HQs, Zoological Survey of India on 17<sup>th</sup> and 18<sup>th</sup> July 2013, an inaugural address was made.
  16. Attended the Panel discussion on ‘Gap Analysis on Policy Issues and Awareness For Implementation of ABS Provisions within the Biodiversity Act’ organized by the WBBB, Kolkata on 29<sup>th</sup> July 2013 at Sonnet Hotel, Kolkata.
  17. Attended the Award Ceremony to confer the Rajiv Gandhi Wildlife Conservation Award 2009 and the Amrita Devi Bisnoi Wildlife Protection Award-2010 during the ‘National Workshop on Developing Strategies for Mitigation of Human-Wildlife Conflicts’ on 20<sup>th</sup> August 2013 at India Habitat Centre, New Delhi.
  18. Attended the ‘Capacity building International workshop for South, Central and West Asia on achieving Aichi Biodiversity Targets 11 and 12 held in Ministry of Environment, Forest and Climate Change from 7-10 December 2015, organised by the National Biodiversity Authority, Chennai.
  19. Attended the workshop titled ‘National Mission for Clean Ganga–State Level Workshop on ‘Forestry Intervention for Clean Ganga’, for the state of West Bengal at 10. AM on 20<sup>th</sup> July 2015 at Hotel Sonnet, Salt Lake Kolkata.
  20. Attended the review workshop on ‘Incentives for Sustainable Management of Biodiversity and Ecosystem Services, TEEB India Initiatives (TII) organised by GIZ, Germany and MoEFCC, Govt. of India at Teesta Hall in Indira Paryavaran Bhawan, Ministry of Environment & Forests, New Delhi on 21<sup>st</sup> and 22<sup>nd</sup> July 2015.
  21. Attended the workshop titled ‘National Mission for Clean Ganga–State Level Workshop on ‘Forestry Intervention for Clean Ganga’, for the state of West Bengal at 10. AM on 20<sup>th</sup> July 2015 at Hotel Sonnet, Salt Lake Kolkata.
  22. Attended the review workshop on ‘Incentives for Sustainable Management of Biodiversity and Ecosystem Services, TEEB India Initiatives (TII) organised by GIZ, Germany and MoEFCC, Govt. of India at Teesta Hall in Indira Paryavaran Bhawan, Ministry of Environment & Forests, New Delhi on 21<sup>st</sup> and 22<sup>nd</sup> July 2015.
  23. Attended the Celebration of ‘World Environment Day, June 5<sup>th</sup> and release of Animal Discoveries Book at Ministry of Environment Forests and Climate Change, Jorbagh, New Delhi on 5<sup>th</sup> June 2015.
  24. Attended the capacity building workshop on various administrative matters related to establishment, general administrative, accounts, stores etc. held on 5<sup>th</sup> & 6<sup>th</sup> May 2016 at Annandale hall, ZSI, Kolkata.
  25. Attended the two days National Workshop on “Integrated Forest Biodiversity Conservation for Sustainable Livelihood: Participatory in the context of Climate

- Change” held on 9-10 May 2016, at IBRAD campus Kolkata and made the presentation on Faunal Diversity of India and Conservation during the workshop.
26. Attended the workshop on “Addressing Fisheries Related Turtle Mortality” meeting scheduled on 22<sup>nd</sup> June 2016 at WWF Auditorium, Lodhi Road, New Delhi.
  27. Attended the National Workshop on ‘Status of Marine Faunal Diversity of India, and the plenary lecture was presented during the workshop organised by the ZSI HQs and Estuarine Biological Regional Centre, Gopalpur-on-Sea from 26<sup>th</sup> to 27<sup>th</sup> October 2016.
  28. Attended the workshop on Sustainable Development of Sundarban: A Comprehensive Agenda on 24 January 2017, Kolkata to explore the twin challenges of ecological conservation and social development in the Sundarban region so as to identify priorities for action and the means to implement them.
  29. Attended the Capacity Building Workshop on Long Term Monitoring of Himalayan Biodiversity for the stakeholders of Himalayan Region, organised under the National Mission on Himalayan Studies, MoEF&CC, Govt. of India jointly by Zoological Survey of India, Botanical Survey of India and G.B.Pant Institute of Himalayan Environment and Development at Gangtok, Sikkim from 29.03.2017 to 30.03.2017.
  30. Attended the ‘Hands-on Training Workshop in Herpetology’ on 2<sup>nd</sup> August 2016 at Prani Vigyan Bhawan, Zoological Survey of India, Kolkata, organised by the Division of Training and Extension, and Division of Herpetology, ZSI, Kolkata.
  31. Attended the National Workshop on ‘Mainstreaming Coastal and Marine Biodiversity of India’ 23.03.2017 to 25.03.2017 at ZSI Port Blair jointly organised by ZSI , BSI under the aegis of AICOPTAX of Ministry of Environment, Forest and Climate Change, Govt of India. Foundation laying ceremony of National Repository for Island Faunal Diversity was also attended at Port Blair on 23<sup>rd</sup> March 2017.
  32. Attended the inaugural programme of ‘Workshop on Lepidoptera’ organised by Panjabi University, Patiala on 20<sup>th</sup> September 2017, for which the resource person was Dr Roger Kendrick, Director, C &R Wildlife from Hong Kong.
  33. Attended the Workshop on “Effective and inclusive Management of Marine and Coastal Ecosystems of Promote Human Well-being and Sustainable Development” in Kochi on 04.07.2017
  34. Attended the Workshop on National Mission on Himalayan Studies (NMHS) at MOEFCC, Paryavaran, New Delhi on 06.07.2017.
  35. Attended the “National Workshop on Coral Reef Ecosystem West Coast of India in Jamnagar from 11.07.2017 to 15.07.2017.
  36. Attended one day workshop on Elephant-Human Conflict & Evaluation of Biodiversity Research Studies in S-W Bengal at Conference Hall, Bon-Bhawan, AE-390, Salt Lake on 25<sup>th</sup> July 2018.
  37. Attended the Capacity Building Workshop on Nagoya Protocol at CEBPOL NBA, Chennai, and made a presentation on the topic ‘Preparation of PBR-Support of Zoological Survey of India’ on 26.02.2019.
  38. Attended National Workshop on “Rapid Response Plan for Managing Coral Reef Ecosystems of India” being organised under GEF-UNDP-GOI NATCOM project at Tuticorin, Tamil Nadu on 23.08.2018 and also chaired a 2<sup>nd</sup> Technical Session during the workshop on 23.08.2018.
  39. Attended the “Dissemination Workshop on the Outcome of CEBPOL” on 5<sup>th</sup> December 2018, organized by MOEFCC, New Delhi and National Biodiversity Authority, Chennai in technical collaboration with Norwegian Environment Agency (NEA), Ministry of

- Norway, Norway at “The Theatre” Habitat World, India Habitat Centre, Lodhi Road, New Delhi-110003.
40. Attended as Guest of Honour a 3-week ‘Interdisciplinary Refresher Course in Environment Studies (All Disciplines)’ in collaboration with UGC-Human Resource Development Centre, Kurukshetra University, Kurukshetra from 31.01.2019 to 03.02.2019.
  41. Attended the workshop to celebrate Ganga River Dolphin Day, jointly organized by National Mission for Clean Ganga (NMCG), Wildlife Institute of India (WII) and World Wide Fund at New Delhi on 5<sup>th</sup> October 2019.
  42. Attended the ‘*Consultative Workshop on Animal inclusive Disaster Risk Reduction (AiDRR)*’ held at National Institute of Disaster Management, Ministry of Home Affairs, New Delhi on 9<sup>th</sup> January 2020 and chaired a session on “Challenges and Gaps with respect to DRR for Livestock and Stray Animals.
  43. Attended in the Workshop on ‘*Impact on Minimum Ecological Flows in Downstream of Reservoir on Riparian Ecosystem (Aquatic Life) Along River Ganga*’ organised by Central Pollution Control Board, at New Delhi on 6<sup>th</sup> February 2020.
  44. Attended as chief guest the workshop cum webinar on “Post COVID: Environmental Challenge and Livelihood” from 18th December, 2020 to 22nd December, 2020 at Ranchi University Campus, Ranchi.
  45. Inaugurated the “Workshop on Coastal and Marine Biodiversity of Island Ecosystem” via video conferencing on 7th January, 2021.

#### **Training Programme Attended**

1. Attended training programme on “Earthworm resources and Vermiculture” from 10<sup>th</sup>-14<sup>th</sup> of September, to 14, 1990 at Solan, Himachal Pradesh
2. Received training on “Identification of Marine Sponges” at CMFRI, Trivandrum in June, 1995.
3. Attended training programme on “Environment Impact Assessment” conducted by “Wildlife Institute of India, Dehradun from 21<sup>st</sup> to 27<sup>th</sup> December, 1999.
4. Attended the Inaugural Session of ‘Third Training Programme for State Government Officials on Integrated Coastal Zone Management’ 78 organized by Marine Aquarium and Regional Centre, on 3<sup>rd</sup> January 2014 at Digha and delivered the inaugural address during the occasion.
5. Attended the Management Development Training Programme on Government e-Marketplace (GeM) at Bains Prashad Hall, Zoological Survey of India, Headquarters on 21.07.2007. Attended the Training Programme on online access of Zoological record at the Annandale Hall ZSI on 25.07.2007 and 27.07.2017
6. Attended the Training Programme of the monitoring staff employed in the Long Term Coral Reef Monitoring Programme from 12.05.2017 to 17.05.2017 in Lakshadweep.
7. Attended the one-day e-Auction Training Programme, which was organized on 05.04.2018 at Bains Prashad Hall, ZSI, HQs., Kolkata.

### **GENERA AND SPECIES DESCRIBED NEW TO SCIENCE**

#### **New Genera**

1. *Subpeltonotus* Ghai, Chandra, and Ramamurthy, 1988
2. *Keshava* Gupta & Chandra, 2017
3. *Hilloxya* Kumar & Chandra, 2019

## New Species

1. *Subpeltonotus andamanae* Ghai, Chandra, and Ramamurthy, 1988
2. *Mimela kalesarensis* Ghai, Chandra, and Ramamurthy, 1988
3. *Articephala lahaulti* Chandra, 1991 (= *Chilotrogus lahaulti* (Chandra, 1991))
4. *Holotrichia nicobarica* Chandra, 1992
5. *Apogonia nicobarica* Chandra, 1995
6. *Lathriobates manohardasi* Chandra and Jehamalar, 2012
7. *Ochterus nicobarensis* Chandra and Jehamalar, 2012
8. *Bolbohamatum achanakmarini* Chandra and Gupta, 2012
9. *Tenagogonus venkataramani* Jehamalar and Chandra, 2012
10. *Metrocoris morsei* Jehamalar and Chandra, 2013
11. *Metrocoris shillongensis* Jehamalar and Chandra, 2013
12. *Hydrometra cherukolensis* Jehamalar and Chandra, 2014
13. *Hydrometra nicobarensis* Jehamalar and Chandra, 2014
14. *Pleciobates expositus* Jehamalar, Chandra & Zettel, 2014
15. *Bolboceras bilaspuricans* Gupta & Chandra, 2016
16. *Bolboceras darjeelicans* Gupta & Chandra, 2016
17. *Odontotrypes (Odontotrupes) tawangensis* Gupta, Chandra & Hillert, 2016
18. *Hedotettix angulatus* Gupta, Shi & Chandra, 2016
19. *Heteropternis raipurensis* Gupta & Chandra, 2016
20. *Poekilocerus geniplanus* Gupta & Chandra 2016
21. *Pseudoceros galatheensis* Dixit, Raghunathan & Chandra, 2017
22. *Pseudoceros nigropunctatus* Dixit, Raghunathan & Chandra, 2017
23. *Pseudoceros auranticrinis* Dixit, Raghunathan, and Chandra, 2017
24. *Pseudoceros vishnui* Dixit, Raghunathan, and Chandra, 2017
25. *Prostheceraeus fuscolineatus* Dixit, Raghunathan, and Chandra, 2017
26. *Pukupuku arunachalensis* Gupta, Chandra & Bezdek, 2017
27. *Tropiorhynchus annandalei* Gupta and Chandra, 2017
28. *Choroerpes (Choroerpes) kaegies* Selvakumar, Subramanian, Chandra, and Jehamalar, 2017
29. *Mesovelia easaci* Jehamalar and Chandra, 2017
30. *Mesovelia kumaria* Jehamalar and Chandra, 2017
31. *Mesovelia lillyae* Jehamalar and Chandra, 2017
32. *Epistaurus tinsensis* Gupta and Chandra, 2017
33. *Coptotettix korbensis* Gupta and Chandra, 2017
34. *Coptotettix magedhensis* Gupta & Chandra 2017
35. *Nososticta nicobarica* Rajeshkumar, Raghunathan, and Chandra, 2017
36. *Thalerosphyrus meghalayensis* Selvakumar & Chandra, 2017
37. *Choroerpes (Choroerpes) kaegies* Selvakumar, Subramanian & Chandra, 2017
38. *Keshava shishodensis* Gupta & Chandra, 2017
39. *Keshava barnawaparensis* Gupta & Chandra, 2017
40. *Keshava jugadensis* Gupta & Chandra, 2017
41. *Gryllacris durgensis* Gupta & Chandra, 2017
42. *Herdmania andamanensis* Mondal, Raghunathan, and Chandra, 2017
43. *Metrocoris sikkimensis* Basu, Chandra, Venkatesan, 2018
44. *Criotettix gidhavensis* Gupta & Chandra, 2018
45. *Criotettix gariyabandicus* Gupta & Chandra, 2018
46. *Euscelimena hardi* Gupta & Chandra, 2018

47. *Tridactylus bijakherensis* Gupta et al., 2018
48. *Acrida raipurensis* Gupta & Chandra, 2018
49. *Acrida bhoramdevi* Gupta & Chandra, 2018
50. *Brachyxenia subtruncata* Gupta, et al., 2018
51. *Ptilomera (P.) nagalanda* Jehamalar & Chandra, 2018
52. *Ptilomera (P.) nagalanda* Jehamalar & Chandra, 2018
53. *Brachyxenia subtruncata* Gupta, Chandra, and Dang, 2018
54. *Anaptygus himalayicus* Kumar and Chandra, 2018
55. *Mesambria indica* Kumar & Chandra, 2018
56. *Oxytauchira truncata* Kumar & Chandra, 2018
57. *Thoradonta subtruncata* Gupta, Shi and Chandra, 2018
58. *Teretamon kempii* Mitra, Payra, and Chandra, 2018
59. *Nemipterus andamanensis* Bineesh, Russell and Chandra, 2018 (Fish)2019
60. *Sikkimiana arunachalensis* Chandra and Kumar, 2019
61. *Hilloxya elongata* Kumar & Chandra, 2019
62. *Sikkimiana arunachalensis* Chandra & Kumar, 2019
63. *Melitta (Melitta) indica* Saini & Chandra, 2019
64. *Sphingonotus (Sphingonotus) changlangensis* Gupta et al., 2019
65. *Macrochlamys leggeae* Sajan, Tripathy, Chandra, and Sivakumar, 2019 (Mollusca)
66. *Enoplotrupes (Enoplotrupes) tawangensis* Gupta, Chandra & Kral 2019
67. *Mesovelia brevia* Jehamalar, Chandra and Polhemus, 2019
68. *Mesovelia dilatata* Jehamalar, Chandra and Polhemus, 2019
69. *Mesovelia occulta* Jehamalar, Chandra and Polhemus, 2019
70. *Mesovelia andamana* Jehamalar, Chandra and Polhemus, 2019
71. *Mesovelia bispinosa* Jehamalar, Chandra and Polhemus, 2019
72. *Mesovelia isiasi* Jehamalar, Chandra and Polhemus, 2019
73. *Mesovelia tenuia* Jehamalar, Chandra and Polhemus, 2019
74. *Cincticostella ranga* Martynov, Selvakumar, Subramanian, Sivaramakrishnan, Chandra, Palatov, Sinha and Jacobus 2019
75. *Cincticostella richardi* Martynov, Selvakumar, Subramanian, Sivaramakrishnan, Chandra, Palatov, Sinha and Jacobus 2019
76. *Gyrinicola dehradunensis* Maity, Rizvi, Bursey and Chandra 2019
77. *Hedotettix mainpurensis* Gupta and Chandra,2019
78. *Hedotettix torengensis* Gupta and Chandra,2019
79. *Hilloxya elongatus* Kumar, Chandra and Saini,2019
80. *Mustilizans zolotuhini* Chandra, Singh, Kumar, Ranjan, Caleb, Gayen, Das and Dey,2019
81. *Neadeloides nubilus* N. Singh, Kirti, Chandra, H. Singh and Ranjan,2019
82. *Ortholinea scatophagi* Chandran, Zacharia and Sanil,2019
83. *Sarmyodus nicobarensis* Majumder, Drumont, Chandra and Dubey,2019
84. *Toccolosida nigraregina* Singh, Chandra, Kirti and Ranjan,2019
85. *Xestophrys namtseringa* Kumar, Chandra and Saini,2019
86. *Parapsilorhynchus alluriensis* Jadhav et al., 2020
87. *Nerice (Nerice) mishmiensis* Mazumder, Raha, Chandra and Schintlmeister, 2020
88. *Tagasta mizoramensis* Gupta, Chandra and Yin, 2020
89. *Anaptygus shishodiai* Kumar, Chandra & Saini.
90. *Bolboceras arunachalensis* Gupta, Chandra, Ghosh & Das
91. *Clyster galatheaensis* Gupta, Chandra, Das & Ghosh



92. *Sacada dzonguensis* Singh, Kirti, Ranjan, Chandra & Speidel
93. *Sacada umtasorensis* Singh, Kirti, Ranjan, Chandra & Speidel
94. *Sarmyodus bagh* Majumder, Drumont, Bouyer & Chandra
95. *Teloganella gurhaensis* Agnihotri, Chandra, Shukla, Singh & Mehrotra
96. *Tenagogonus aruli* Jehamalar and Chandra
97. *Toccolosida ganeshgudiensis* Singh, Kirti, Ranjan & Chandra
98. *Hylaeus (Paraprospis) guptai* Saini & Chandra 2021
99. *Crocidura narcondamica* Kamalakannan, Sivaperuman, Gokulakrishnan, Venkatraman, & Chandra

<b>AWARDS AND RECOGNITION</b>	
Janaki Ammal Taxonomy Award-2018	Ministry of Environment, Forest and Climate Change, Govt. of India
M. S. Pradhan Memorial Lecture citation 2020	Indian Agricultural Research Institute, ICAR, Govt. of India
Asiatic Society, Kolkata	Honorary Fellow
Entomological Society of India	Life Time Achivement Award
Society of Life Sciences, Madhya Pradesh	Fellow
<b>PATENTS</b>	
Larval herbicide for the <i>Aedes</i>	
Ciliates for the control of harmful bacteria	

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