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Status of Derailing Taxonomy and List of Indian Taxonomists Working on Various Taxa of Phylum Arthropoda

Rajendra Singh Fartyal[1]*, Pragya Topal [2], and Kishor Kumar[3]

[*1]Fly Lab., Department of Zoology, HNB Garhwal University (A Central Univ.), Srinagar-Garhwal, Uttarakhand, India, fartyalrs@gmail.com
[2]Fly Lab., Department of Zoology, HNB Garhwal University (A Central Univ.), Srinagar-Garhwal, Uttarakhand, India, pragyatopal@gmail.com
[3]GB Pant National Institute of Himalayan Environment, Himachal Regional Center, Mohal-Kullu, Himachal Pradesh, India, kishorkkothari5@gmail.com

Abstract: **This review article is a brief introduction to taxonomy. How taxonomy play important role in conservation plans and why this field is important from the perspective of rich diversified India has been mentioned. This article is a tribute to all the eminent Indian taxonomists who have paved the sector of arthropod's taxonomy and taxonomists who are working on it, making many unknown species documented and familiar to us. This article tries to acknowledge all the traditional taxonomists from the Indian subcontinent. Along with it much-needed measures have also been mentioned for conserving taxonomy and skilled taxonomists.**

Index Terms: **Arthropod, India, Insect taxonomy, Skilled taxonomist, Taxonomy**

I. Introduction

Taxonomy is the science of identifying and characterizing species. Carolus Linnaeus, the Father of Taxonomy had introduced this system for naming, ranking, and classifying organisms in the year 1753. In taxonomy, unique identities are assigned to particular taxa which helps a broader scientific community. Taxonomists collect and identify voucher specimens including whole organisms or some body parts; they provide description keys, field guides, and a list of species of specific areas. Taxonomy made some of the model organisms in biology most fascinating in terms of their positions in the evolutions tree. Along with it, taxonomy helps us in understanding biodiversity and helps to conserve it. It can be used in instituting conservation planning tools like generating species lists, demarking species-rich areas, and estimating extinction risk and rates. Although, the original purpose of taxonomy was the recognition, categorization, and identification of organisms. But now a day traditional taxonomy and cladistic taxonomy are two distinct taxonomic systems that are operational among professional zoologists. The traditional taxonomy is applied in the field works, conservation programs, and in the animal husbandry field while the cladistic taxonomy is mostly adopted by the evolutionary biologist.

For Conservation studies, the first and foremost step is the identification of species in each region. While working on the conservation of habitat one needs to mark the keystone species, endangered species, vulnerable species, and an extinct species of the area. Likewise, the study of the species-specific life cycle, fetal development, parasitic behavior, foraging behavior, their genetic makeup, their evolutionary development, etc. needs identification as a primary step. India has 10 different biogeographic regions with diverse climatic conditions, which aids in its rich diversity of the flora and fauna. Till now, 6.45% of total faunal species (1,01,167 in numbers) of world and 11.4% of total world flora (49,003 in numbers) has been recorded from India1. Within India 4 hotspots out of 34 hotspot areas of the world are present. These hotspots include the Indian Himalayan region, Western Ghats, Indo-Burma (including Northeastern states except Assam), and Sundaland [including the entire Nicobar group of islands, extending to southeast Asian countries Indonesia, Malaysia, Singapore, Brunei, and the Philippines] (Venkataraman, & Sivaperuman 2018) These hotspots not only suggest species richness but also provide information about different endemic species of the region. Other than this, India is one of the 12-mega biodiversity regions of the world. Different ecological habitats like the forest, grasslands, deserts, wetlands, coastal and marine ecosystems establish India as an open natural laboratory.

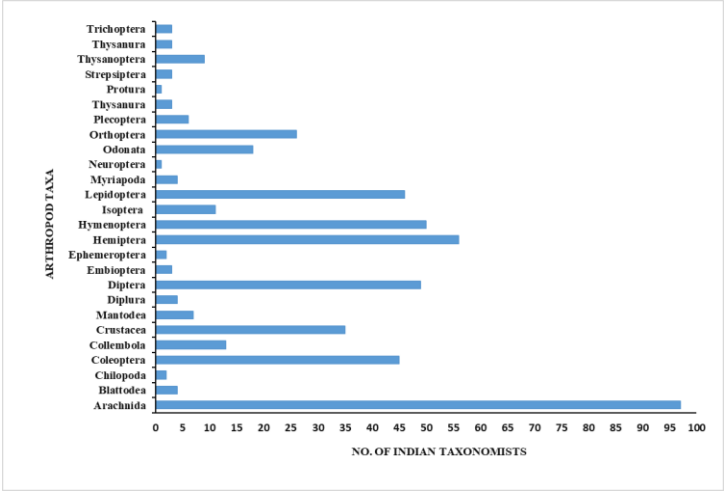
Indian lands are unexplored with respect to their biodiversity and without a good taxonomist this talk could not be achieved. For proper documentation and identification of these florae and

faunae, we really need serious taxonomists. However, over the years, this discipline has lost its attractiveness as a scientific discipline. A fewer young people are opting for this as a career. In such a large country as India, only a few laboratories are involved in taxonomic work. Surprisingly, these laboratories could be counted in human fingers. Despite doing great work in their field, these institutes don't get much recognition for their work.

Having a detailed knowledge of taxonomy empowers us to manipulate it for focusing on issues like improving crops and ensuring food security, speeding up work on genetic engineering, and discovering novel drugs. Despite the importance of taxonomy, the research work in this field is being continuously declining and is being neglected. In a discussion on the fate of taxonomy on research gate forum, Professor Mohammad Mahamood discussed a case where two government-funded projects were completed on misidentified species of a plant-parasitic nematode genus [Meloidogyne] (Mahamood, 2018). Similarly, on the same desk, Dr. Subir Bandyopadhyay from the Botanical Survey of India had also mentioned a case where a person completed his Ph.D. on a misidentified species (Bandyopadhyay, 2018). With these two episodes, the need and importance of taxonomy along with ignorance toward it can be clearly witnessed. This negligence of taxonomy is resulting in less funding, less interest in good journals for publishing taxonomical research, and most importantly new researchers are avoiding entering this field. The Study of the animal world in scarcity of taxonomists caused thousands of animal species to remain unexplored in India till today.

It is known that insects cover almost 75% of all described animal species on this planet (Sankarganesh, 2017). In India itself, about 63,760 species of insects are known, which are represented by 658 families of 27 orders (Sankarganesh, 2017). Almost 94% of these insects belong to orders Coleoptera, Lepidoptera, Orthoptera, Diptera, Hemiptera, Odonata, Hymenoptera, and Thysanoptera (Sankarganesh, 2017). However, if one asks how many insects' taxonomists India has one might get surprised with the answer.

This article is tributed to eminent taxonomists for their patience and devotion, who had contributed their whole life to characterize Phylum Arthropoda in India. The Hermenegild Santapau, a 1967 Padma Shri Awardee, and a Spanish botanist are known as the Father of Indian taxonomy. He had conducted his taxonomical research on both Indian flora and fauna and paved the foundation of Indian taxonomy (IPNI, 2020). The number of the taxonomists working on different classes of Phylum Arthropoda are given in fig. 1.



We have compiled information from various sources majorly including https://zsi.gov.in/App/regcenters.aspx?reg=1559&link=538 to know the current and future status of the Indian taxonomist working on different taxa of arthropods. According to the information compiled in fig.1, In India, Class Arachnida is the only order having > 90 working and retired taxonomic experts followed by Hemiptera > 50 taxonomic experts, Hymenoptera 50, Diptera, Lepidoptera, Coleoptera > 40 experts, Crustacea > 30, Orthroptera > 20, Collembola, Isoptera, Odonota are only having >10 taxonomic experts. The number of the working and retired experts of few other arthropod groups are declining, some of the expert's numbers are either > 5 (Thysanoptera, Plecoptera, Mantodea) or < 5 (Trichoptera, Thysanoptera, Strepsiptera, Protura, Neuroptera, Myriapoda, Ephemeroptera, Embioptera, Diplura, Chilopoda, Blattodea) across India. There are only few Indian taxonomists providing their services in the identification of various specimens/samples of insect and arthropods collected by field researchers, scientists, academicians, and naturalist for their scientific exploration reports as well as recommendation for policy planning. It is well known that the insects and arthropods are providing various services i.e., Provider, Facilitator, and Decomposer, to maintain the balance between ecology, environment, and nutrient cycling in nature. Many species of Hymemoptera, Diptera, Lepidoptera, Coleoptera helps in crop pollination, is perhaps the best-known ecosystem service performed by insects for successful reproduction for fruit and seed production. McGregor (1976) estimates that 15% to 30% of the US diet is a result, either directly or indirectly, of animal-mediated pollination. These products include many fruits, nuts, vegetables, and oils, as well as meat and dairy products produced by animals raised on insect-pollinated forage. Beside this, insect and associated arthropod play an important role in dung burial, nitrogen volatilization, forage fouling, apiculture, sericulture, pest and parasite. The limitation in the numbers of taxonomic experts of a

particular arthropod group is an alarming situation to understand the role of a particular species in maintaining biodiversity conservation, crop production, ecology, and environmental health. Beside this many of these taxonomists are retired from their active services, it presumes that they will not be able to provide their identification services for a long period. Considering the various importance of arthropods in biodiversity conservation, crop production, acting as bioindicator species, , there is immediate need to appoint adequate number of animal taxonomist.

In case of other phyla, taxonomists are rare and this profession is on the declining side. In India, at the graduation level and sometimes even at post-graduation level the taxonomy syllabus lacks practical work and field surveys. Still in many colleges and universities in India students are being exposed to theoretical aspects of this discipline. Only preserved specimens or pictures of specimens are circulated among students, and they are asked to draw them as practical work. While the need is to let the students interact with nature to build their interest and to teach them methods and techniques to identify, count, capture, and handle some local species. Lacking good journals and taxonomy literature are added obstacles in the progress of taxonomy (Kholia, & Fraser-Jenkins, 2011; Heike, et al, 2011; Narendran, 2001). Along with these issues, this field is being ignored by researchers due to tiresome fieldwork and less acknowledgement. Even while using species names in some scientific publications the citing of authority on which they are based is mostly lacking and it indicates the neglecting condition of taxonomic contribution (Heike, et al, 2011). On many occasions, grant agencies do not find taxonomy grant proposals appealing and attractive. This results in a lack of funding in such areas. These labs are mostly the least funded laboratories across the country. This attitude toward taxonomical works demotivates many young researchers to take this as a profession. This trend sometimes also forces existing taxonomists to switch on to "taxonomy-free" research subject. This shift is creating a vacuum in classical taxonomic research.

India is not the only country where taxonomy is in poor condition. Countries like the UK, USA, Japan, and Australia are also facing the same problems. Some reports in the UK and the USA have pointed out that most of the limited annual funding goes to support molecular phylogenies rather than integrative data sets, revisions, monographs, or improved classifications and names (Wheeler 2008). However, globally taxonomical work is being upgraded to DNA sequencing and Barcoding of mitochondrial and nuclear DNA for species identification. They are using the fusion of new technology with classical taxonomy. India is also lacking on this front due to improper training and the absence of demanding tools and infrastructure (Ajmal Ali, M., Choudhary 2011). This further leads to impeding the study of molecular systematics and thus we are lagging in these areas as well (Ajmal Ali, M., Choudhary, 2011). At the global level, the identified species are kept in digitalized form and virtual museums are being created. India is also lacking on this front, especially at the university level. All this is resulting in taxonomical impediment in India at a time when biodiversity studies need a revival dose.

It is not the first time that this issue is being addressed; whistles have been blown before as well. Many times, with alarming articles practical solutions to these problems have been discussed. Concepts like introducing fieldwork in taxonomy syllabi for UG/PG students, short-term training sessions for fresher and working taxonomists to groom their skills along withideas of providing scholarship to researchers pursuing Ph.D. and projects in this field have already been provided (Narendran, 2001, Dharmapalan, 2001). A suggestion like the collaboration of taxonomists and conservation agencies to cover the broad floral and faunal diversity is worth trying (Hariharan & Balaji, 2002). However, already suggested and feasible efforts are also being neglected to worsen the situation. There are many instances where sibling species are too similar that we need skilled taxonomists to differentiate between them. With help of identifying only a few key features, we can't be sure about differences between sibling species and for its different set of techniques are required. It suggests that now we need to work with multidimensional approaches for describing any sibling or new species instead of using only alpha taxonomy. The multidimensional approach ensures us about identification and right now it is the need of the hour. The fusion of biotechnology with classical taxonomy is being looked upon for studying physiology, chemical ecology, and the evolution of different taxonomical species. Along with this, we need to focus taxonomical work with direct applicability for our society. For example, a certain number and species of macroinvertebrates dwelling in freshwater tell us about the quality of water or studying the interaction of pest species with their crop host and formulating solution for less crop damage can be studied. This type of approach will be counted as applied taxonomy and such kind of projects will not only attract funds but will also help in recognizing taxonomical works. There is need of financial support for reviving taxonomical work and this can be achieved with PPP model (Public-private partnership). For PPP mode to be functional in the field of taxonomy we need to promote taxonomical work with help of print media and digital media to make taxonomy renowned in the public domain.

CONCLUSION

The paper concludes that at least all central universities should work toward providing training for taxonomical studies or should offer new courses like M.Sc. animal / M.Sc. plant taxonomy for encouraging PG students to take up taxonomy and should include more fieldwork instead of lab work. Under the Prime Minister Skill India program and Digital India program,

short training programs can be introduced for identifying, handling, and culturing economically beneficial plant and animal species that can be done with aid of taxonomical knowledge. As our prime minister focuses on digitalization, we should also try to digitalize the identified species at the university level. For this work, collaboration can be done with the Zoological Survey of India, the Botanical Survey of India, Forest Research Institute, Indian Council of Agricultural Research, the Wildlife Institute of India, and many more. After that, we could be in better position for biodiversity assessments and conservation by fully skilled workforce and can try to work on a national digital library for all described animals as well as plants for future work. This skilled and educated workforce will not only turn taxonomy into its applied mode but it will make use of its knowledge to conserve nature.

S.No.	Taxa	Name of Taxonomist	Affiliation	Specialization	
	Arachnida				
1.		Shelley Acharya	Scientist, Zoological Survey of India, Kolkata	Orbatidae	Arachnida
2.		Arunabha Chakraborty	Dept. of Entomology, BCKV	Agricultural Acarology	Arachnida
3.		Abhilash Balachandraan		Predatory mites phytophagous mit	Arachnida
4.		Soumya Banerjee	Zoological Survey of India, Kolkata	Orbatidae	Arachnida
5.		D. B. Bastawade	Retired Scientist, Western Regional Station, Zoological Survey of India, Pune- Maharashtra.	Scorpionida	Arachnida
6.		A. K. Bhaduri	Department of Zoology, Vidyasagar College	Cryptostigmata	Arachnida
7.		S.P. Bharadwaj	Associate Director (Res. & Ext.), Dr. Y.S. Parmar U of Horticult ure & Forestry, Reional Hort Research Station, HP, 17100	Bionomics, Ecology, & Management of phytophagous mite pests	Arachnida
8.		H.R. Bhat	National Institute of Virology, Pune	Trombiculidae, Ticks	Arachnida
9.		A. K. Bhattachary ya	Retired Scientist, Zoological Survey of India, Kolkata	Mesostigmata	Arachnida
10.		S.K. Bhattacharyya	Retired Scientist, Zoological Survey of India, Kolkata	Cryptostigmata	Arachnida
11.		T. Bhattacharyya	Department of Zoology, Vidyasagar University, Midnapore West Bengal.	Cryptostigmata	Arachnida
12.		Manmeet Brar Bhullar	Department of Entomolgy, Punjab Agricultural University,	Agricultural Acarology	Arachnida
13.		B. K. Biswas	Retired Scientist, Zoological Survey of India, Kolkata	Araneae	Arachnida
14.		K. Biswas	Scientist, Zoological Survey of India, Kolkata	Araneae	Arachnida
15.		Samiran Chakrabarti	Professor, Biosystematics Research Unit, Dept. of Zoology, University of Kalyani, West Bengal.	Taxonomy of Eriophyidae	Arachnida
16.		D. K. Chakraborty	Department of Zoology, Presidency College, Kolkata, West Bengal.	Cryptostigmata	Arachnida

17.		G.P. Channa Basavanna,	Department of Entomology, University of Agricultural Sciences, Bangalore	Arachnida/ Acari	Arachnida
18.		Sahadeb Chouhan	Forest Entomology Division, Tropical Forest Research Institute, Jabalpur - India	Arachnida/ Acari	Arachnida
19.		N. P. I. Das	Indra Gandhi Atomic Power Plant, Kalpakkam, Tamil Nadu	Arachnida/ Opiliones	Arachnida
20.		S. K. De	Retired Scientist, Zoological Survey of India, Kolkata	Ticks	Arachnida
21.		Dipankar Sengupta	Post Graduate Dept. of Zoology, Maulana Azad College, Kolkata- India.	Mites	Arachnida
22.		Ashit Kumar Dutta		Cryptostigmata	Arachnida
23.		U. A. Gajbe	Retired Scientist, Zoological Survey of India, Kolkata	Araneae	Arachnida
24.		Chinnamade G owda	AINP on Agricultural Acarology, Dept. of entomology, University of Agricultural Sciences, GKVK, Bangalore	Acarology	Arachnida
25.		C. Gunasekharan	Department of Zoology, Bharathiar University, Coimbatore	Acari/Eriophidae	Arachnida
26.		Arun Gupta	Scientist, Zoological Survey of India, Kolkata	Acarology, Museology	Arachnida
27.		S. K. Gupta	Retired Scientist, Northern Regional Centre, Zoological Survey of India, Dehra Dun	Arachnida/ Acari	Arachnida
28.		Y. N.Gupta,	Retired Scientist, Central Regional Station, Zoological Survey of India Jabalpur Madhya Pradesh.	Cryptostigmata	Arachnida
29.		M. A. Haq	Acarology Division, Department of Zoology, University of Calicut, Kerala.	Cryptostigmata	Arachnida
30.		L. S. Hiregaudar	University of Agricultural Sciences, Dharwad, Karnataka.	Arachnida/ Acari	Arachnida
31.		Janardan Singh	Professor, Dept. of Entomology and Agricultural Zoology, Institute of Agricultural Sciences, BHU, Varanasi	Acarology	Arachnida
32.		Maqsood S. M. Javed,	Ecological Research & Monitoring Laboratories, Andhra Pradesh, India;	Arachnida/ Araneae	Arachnida
33.		Krishna Karmakar	Directorate of Research, B.C. Krishi Viswavidyala Kalyani West Bengal,	Agricultural Acarology	Arachnida

			India		
34.		H. N. Kaul	National Institute of Virology, Pune Maharashtra.	Trombiculidae, Ticks	Arachnida
35.		Randeep Kaur	Department of Entomology, Punjab Agricultural University, Ludhiana, India	Arachnida/ Acari	Arachnida
36.		Paramjit Kaur	Department of Agricultural Entomolgy, Punjab Agricultural University, Ludhiana- Punjab, India	Acarology	Arachnida
37.		S. M. Kulkarni	National Institute of Virology, Pune Maharashtra.	Trombiculidae, Ticks	Arachnida
38.		B. G. Kundu	Retired Scientist, Zoological Survey of India, Kolkata	Cryptostigmata	Arachnida
39.		Mahasundaram		Plant mites Eriophyidae	Arachnida
40.		S. Majumdar	Retired Scientist, Zoological Survey of India, Kolkata	Araneae	Arachnida
41.		S. C. Majumder,	Sundarban Field Research Station, Zoological Survey of India, West Bengal, India	Araneae	Arachnida
42.		B. Mallik.	Department of Agricultural Entomology, University of Agricultural Sciences	Agricultural Acarology	Arachnida
43.		S. Mathur		Arachnida/ Acari	Arachnida
44.		R. B. Mathur	Haryana Agricultural University, Hisar Haryana.	Arachnida/ Acari	Arachnida
45.		A. C. Misra	National Institute of Virology, Pune, Maharashtra.	Trombiculidae, Ticks	Arachnida
46.		O. P. Mittal	Department of Zoology, Punjab University, Chandigarh, Punjab.	Araneae	Arachnida
47.		M. Mohansundaram	Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu.	Erioehyoies, Tetramychoides, Insect, Mites	Arachnida
48.		M. N. Moitra	Jalpaiguri, West Bengal.	Orbatidae	Arachnida
49.		Manabendranath Moitra	P.D. Women's College, Club Road, Jalpaiguri	Taxonomy Biology, Ecology of Oribatid mites and ticks	Arachnida
50.		B. K. Mondal	Department of Zoology, Ananda Chandra College, Jalpaiguri, West Bengal.	Cryptostigmata	Arachnida
51.		R.K. Pandit	Biosystematics Research Unit, Dept. of Zoology, University of Kalyani, Kalyani, West Bengal.	Taxonomy of Eriophyidae	Arachnida
52.		B. H. Patel	Department of Zoology, P. P. Institute of Science,	Araneae	Arachnida

			Bhavnagar, Gujrat.		
53.		S.R. Pati	Scientist, Central Zone Research Centre, Zoological Survey of India, Jabalpur.	Arachnida	Arachnida
54.		S. Podder	Entomology & Wildlife Biology Research Unit, Department of Zoology, University of Kolkata, West Bengal, India	Arachnida/ Acari	Arachnida
55.		B. N. Putatunda	Haryana Agricultural University, Hisar, Haryana.	Mites	Arachnida
56.		B.V. Puttaswamaiah	Centre for Agriculture Studies, Dept. of Zoology, Bangalore University, Jnana Bharathi, Bangalore.	Honeybee mites	Arachnida
57.		V. Radhakrishnan	Dept. of Agricultural Entomology, Tamilnadu Agricultural University, Coimbatore Tamilnadu	Ecology, Honeybee mites	Arachnida
58.		M. Raghuraman	Professor, Dept. of Entomology and Agricultural Zoology, Institute of Agricultural Sciences, BHU, Varanasi	Agricultural Acarology	Arachnida
59.		S.N. Rai	Dept. of Entomology and Agricultural Zoology, Institute of Agricultural Sciences, BHU	Agricultural Acarology	Arachnida
60.		N. Ramani	Professor, Dept. of Zoology, University of Calicut, Malapuram, Kerala, India	Plant & soil mites (Taxonomy Biology/Ecology)	Arachnida
61.		K. Ramaraju	Professor, Dept. of Agricultural Entomology, Tamilnadu Agricultural University, Coimbatore Tamilnadu	Plant mites Eriophyidae	Arachnida
62.		Thulsi K. Rao	Ecological Research & Monitoring Laboratories, Nallamalai Hill Ranges, Andhra Pradesh, India	Arachnida/ Araneae	Arachnida
63.		A. Q. Rather	Sher-e-Kashmir University, Srinagar, Jammu and Kashmir.	Arachnida/ Acari	Arachnida
64.		Dinendra Raychoudhuri	Professor of Zoology, Department of Zoology, University of Kolkata,	Arachnida/ Acari	Arachnida
65.		M.S. Reddy	Centre for Agriculture Studies, Dept. of Zoology, Bangalore University, Jnana Bharathi, Bangalore.	Honeybee mites	Arachnida
66.		Samantaray Sachidananda	Bihar Veterinary College, Rajendra Agricultural University, Patna India	Ticks and Tick-borne diseases	Arachnida
67.		G. L. Sadana	Punjab Agricultural University, Chandigarh-Punjab.	Tetramychoids, Araneae	Arachnida

68.		Goutam. Saha	Department of Zoology, Durgapur Government College, Durgapur, West Bengal.	Arachnida/ Acari	Arachnida
69.		Sumana Saha	Department of Zoology, University of Kolkata, India	Arachnida/ Acari	Arachnida
70.		G. K. Sahara	Entomology & Wildlife Biology Research Unit, Department of Zoology, University of Kolkata	Arachnida/ Acari	Arachnida
71.		Rahman Sahidur	Dept. of Entomology, Assam Agricultural University	Agricultural Acarology	Arachnida
72.		Salil Kumar Gupta		Acari	Arachnida
73.		Asok Kanti Sanyal	Acarology Section, Zoological Survey of India	Systematics, Ecology, Oribatid mites	Arachnida
74.		S.Sarkar	Biosystematics Research Unit, Dept. of Zoology, University of Kalyani, West Bengal.	Taxonomy Eriophyidae	Arachnida
75.		P. K. Sarkar	Bidhanchandra Krishi Viswavidyalaya, Kalyani-Nadia, West Bengal.	Arachnida/ Acari	Arachnida
76.		Sadhana Sarkar	Department of Zoology, M. B. B. College, Agartala, Tripura.	Cryptostigmata	Arachnida
77.		Shampa Sarkar		Orbatidae	Arachnida
78.		C.R. Satpathi	Dept. of Agricultural Entomology, Bidhan Chandra Krishi Viswa Vidyalaya West Bengal	Mite p management, Biocontrol	Arachnida
79.		Ashok Sharma	Directorate of Research, Rajasthan Agricultural University, Bikaner (Rajasthan), India	Bio-ecology mites	Arachnida
80.		Sharmila Roy	Division-I, C.A.Z.R.I. Jodhpur, Rajasthan	Collembola & M Taxonomy	Arachnida
81.		Siddharth K. Patel	Deptt. of Life Sciences, Bhavnagar University, Gujarat	Arachnida	Arachnida
82.		Hridaya Singh	Department of Zoology Ch. C.S. University, Meerut	Parasitology/Acar ogy/Taxonomy	Arachnida
83.		J. Singh	Benaras Hindu University, Baranasi, Uttar Pradesh	Arachnida/ Acari	Arachnida
84.		A. K. Som Choudhuri,	Professor, Dept. of Agricultural Entomology, Faculty or Agriculture, BCKV, Kalyani, West Bengal	Arachnida/ Acari	Arachnida
85.		Somnath Roy	Entomology Research Unit, Dept. of Zoology, University of North Bengal, West Bengal	Tea n management	Arachnida
86.		N. Srinivas	Professor, Department of	Agricultural	Arachnida

			Agricultural Entomology, University of Agricultural Sciences, Bangalore	Acarology	
87.		Sushma Bhradwaj	Regional Horticultural Research Station Mashobra, Shimla, INDIA	Phytophagous mites	Arachnida
88.		Sankar Talukdar	Scientist, Zoological Survey of India,	Arachnida/ Acari	Arachnida
89.		Tapas Chatterjee	Indian School of Learning I.S.M.A. Annexe Jharkhand, INDIA	Halacaridae	Arachnida
90.		Vijay K. Saxena	National Institute of Communicable Diseases, Delhi	Ecology and disease transmission, mesostigmata, Ixodoidea	Arachnida
91.		Mohammad Yousuf	Professor Life Sciences at Central university of Kashmir	Arachnida/ Acari	Arachnida
92.	Blattodea	M. Jayakumar	Department of Zoology, Loyola College, Chennai, India	Blattodea	Blattodea
93.		S. K. Mandal	Retired Scientist, Zoological Survey of India, Kolkata	Blattodea	Blattodea
94.		S Prabakaran	Scientist, Southern Regional Station, Zoological Survey of India, Tamil Nadu.	Blattodea	Blattodea
95.		S. John William	Department of Zoology, Loyola College, Chennai	Blattodea	Blattodea
	Chilopoda				
96.		Vinod Khanna	Retired Scientist, Northern Regional Station, Zoological Survey of India, Dehradun	Chilopoda	Chilopoda
97.		P. M Sureshan	Western Ghat Regional Centre, Zoological Survey of India, Kozhikode	Chilopoda	Chilopoda
	Coleoptera				
98.		P. K. Basak	Department of Zoology, Bidhannagar College, Saltlake, Kolkata	Coleoptera	Coleoptera
99.		C. R. Basu	Retired Scientist, Zoological Survey of India, Kolkata	Chrysomelidae	Coleoptera
100.		B. R. Bhateja	S. G. N. Khalsa College, Sri Ganganagar Rajasthan.	Curculionidae	Coleoptera
101.		D. N. Biswas	Retired Scientist, Zoological Survey of India, Kolkata	Coleoptera	Coleoptera

102.		R. G. Booth	Project Directorate Biol Control, HA Farm Post, Bellary Rd, Bangalore, Karnataka, India	Coleoptera/ Polyphaga	Coleoptera
103.		S. K. Chakraborty	Retired Scientist, Zoological Survey of India, Kolkata	Coccinellidae, Histeridae	Coleoptera
104.		K. Chandra	Scientist, Zoological Survey of India, Kolkata	Scarabaeidae	Coleoptera
105.		Charan Singh	Division of Plant Quarantine, N.B.P.G.R, Pusa Campus, New Delhi	Bruchidae (Coleoptera)	Coleoptera
106.		S. K. Chatterjee,	Retired Scientist, Zoological Survey of India, Kolkata	Scarabaeidae	Coleoptera
107.		R. L. Chauhan,	Department of Zoololgy, Kurukshetra University, Haryana	Elateridae	Coleoptera
108.		S. K. Ghosh	Retired Scientist, Zoological Survey of India, Kolkata	Dytiscidae, Hydrophilidae	Coleoptera
109.		Kavita Gupta	Division of Plant Quarantine, N.B.P.G.R, Pusa Campus, New Delhi	Bruchidae	Coleoptera
110.		V. D. Hegde	Scientist, Zoological Survey of India, Kolkata	Coleoptera	Coleoptera
111.		Manju Lata Kapur	Division of Plant Quarantine, N.B.P.G.R, Pusa Campus, New Delhi	Bruchid (Coleoptera) Taxonomy	Coleoptera
112.		P. K. Maiti	Retired Scientist, Zoological Survey of India, Kolkata	Scolytidae	Coleoptera
113.		J. S. Mann	Rice Research Station, Punjab Agricultural University, Kapurthala	Chrysomelidae	Coleoptera
114.		I. C. Mittal	Department of Zoology, Burdwan University, Golapbag, Burdwan, West Bengal.	Scarabaeidae	Coleoptera
115.		P. Mukhopadhyay	Retired Scientist, Zoological Survey of India, Kolkata	Dytiscidae, Cerambycid -ae, Curculionid -ae, Gyrinidae, Hydrophili -dae, Cucujoidea	Coleoptera
116.		B. N. Nandy	Retired Scientist, Zoological Survey of India, Kolkata	Platypodidae	Coleoptera
117.		H. R. Pajni	Department of Zoology, Punjab University, Chandigarh	Bruchidae, Curculionidae	Coleoptera
118.		T. K. Pal	Retired Scientist, Zoological Survey of	Cucujoidea	Coleoptera

			India, Kolkata		
119.		Amol Patwardhan	Department of Zoology, Somaiya Vidyavihar	Coleoptera / Elateridae	Coleoptera
120.		J. Poorani	Project Directorate Biol Control Karnataka, India	Coleoptera/ Polyphaga	Coleoptera
121.		K. D. Prathapan	Department of Entomology, Kerala Agricultural University, Vellayani Kerala, India	Coleoptera/ Polyphaga	Coleoptera
122.		V. V. Ramamurthy	Entomology Division, Indian Agricultural Research Institute, Pusa, New Delhi	Curculionidae	Coleoptera
123.		G. N. Saha	Retired Scientist, Zoological Survey of India, Kolkata	Meloidae, Tenebrionidae.	Coleoptera
124.		Nivedita Saha	Scientist, Zoological Survey of India, Kolkata	Scolytidae	Coleoptera
125.		Abha Sar	Scientist, Zoological Survey of India, Kolkata	Staphylinidae	Coleoptera
126.		Ram Sewak	Retired Scientist, Desert Regional Station, Zoological Survey of India, Jodhpur	Coleoptera	Coleoptera
127.		Shashi Bhalla	Division of Plant Quarantine, N.B.P.G.R, Pusa Campus, New Delhi	Bruchid (Coleoptera) Taxonomy	Coleoptera
128.		Sudhir Singh	Forest Institute, Forest Entomology Division, P.O. New Forest, Dehradun, Uttarakhand, India	Coleoptera	Coleoptera
129.		J. P. Singh	Department of Zoology, Punjabi University, Patiala - Punjab, India	Chrysomelidae	Coleoptera
130.		S. K. Singhal	Entomology Department, Haryana Agricultural University, Haryana.	Curculionidae	Coleoptera
131.		O. P. Srivastava	Scientist, Zoological Survey of India, Kolkata	Coleoptera	Coleoptera
132.		K Sabu Thomas	St. Joseph's College, Devagiri, Kozhikode	Scarabaeidae	Coleoptera
133.		V.P. Uniyal	Wildlife Institute of India, Chandrabani, Dehradun Uttarakhand	Cicindelidae, Elateridae, Scarabaeidae	Coleoptera
134.		L. K. Vats	Department of Zoology, Kurukshetra University, Haryana.	Elateridae	Coleoptera
135.		K. K. Verma	Government Girls' College, Durg Madhya Pradesh.	Chrysomelidae	Coleoptera
136.		C. A. Viraktamath	Department of Entomology, Kerala Agricultural University, Kerala, India	Coleoptera/ Polyphaga	Coleoptera
137.		C. P. S. Yadav	Agricultural Research Station, I. C. A. R., Jaipur.	Scarabaeidae	Coleoptera

138.		J. S. Yadav	Department of Zoology, Kurukshetra University, Haryana.	Chrysomelidae	Coleoptera
	Collembola				
139.		R. Bano	Western Regional Centre, Zoological Survey of India, Pune- Maharashtra	Collembola	Collembola
140.		D. K. Choudhuri	Department of Zoology, Burdwan University, Golapbag, Burdwan, West Bengal.	Collembola	Collembola
141.		A. K. Hazra	Retired Scientist, Zoological Survey of India, Kolkata	Collembola	Collembola
142.		G. P. Mandal	Scientist, Zoological Survey of India, Kolkata	Collembola	Collembola
143.		S. K. Mitra	Retired Scientist, Zoological Survey of India, Kolkata	Collembola	Collembola
144.		D. Pahari	Apterygota Section, Zoological Survey of India, Kolkata	Collembola	Collembola
145.		Hina Parwez	Department of Zoology, Aligarh Muslim University Uttar Pradesh	Collembola	Collembola
146.		S. Roy	Department of Zoology, Burdwan University, Golapbag, Burdwan, West Bengal.	Collembola	Collembola
147.		Sharmila, Roy	Central Arid Zone Research Institute, Jodhpur (Rajasthan)	Collembola	Collembola
148.		G. K. Saha	Retired Scientist, Zoological Survey of India, Kolkata	Collembola	Collembola
149.		Maneesh K. Sharma	Department of Zoology, Aligarh Muslim University Uttar Pradesh	Collembola	Collembola
150.		N. Ullah	RBS Coll, Dept Zool, Agra, Uttar Pradesh, India	Collembola	Collembola
151.		R. K. Verma	RBS Coll, Dept Zool, Agra, Uttar Pradesh, India	Collembola	Collembola
	Crustacea				
152.		S. Ajmal Khan,	Professor (Retired), Centre of Advanced Study in Marine Biology, Annamalai University	Crustacea	Crustacea
153.		S Bajpai	Department of Earth Sciences, Indian Institute of Technology, Roorkee India	Crustacea/ Ostracoda	Crustacea
154.		Jaya Chandran	Department of Aquatic Biology Fisheries, Kerala Agricultural University, Cochin, Kerala.	Crustacea	Crustacea
155.		S. V. A. Chandrasekhar	Zoological Survey of India, Freshwater Biology	Crustacea	Crustacea

			Regional Centre, Hyderabad		
156.		M. K. Dev Roy	Scientist, Zoological Survey of India, Kolkata	Crustacea	Crustacea
157.		A. P. Dineshbabu	Mangalore Research Centre of Central Marine Fisheries Research Institute, India	Crustacea/ Malacostraca	Crustacea
158.		M. K. Durga Prasad	Krishna University, AJ Kalashala Campus, Rajupeta, Machilipatnam A. P.	Crustacea/Eubranchiopoda/Ostrocoda	Crustacea
159.		S. S. Ghatak	Retired Scientist, Zoological Survey of India, Kolkata	Decapoda	Crustacea
160.		A. Gokul	Zoological Survey of India, Kolkata	Brachyuran crabs	Crustacea
161.		S. R. Jakhar	Department of Geology, Mohanlal Sukhadia University, Udaipur, India	Crustacea/ Ostracoda	Crustacea
162.		D.R. Jalihal	Marine Biological Research Station, Ratnagiri, Maharashtra.	Crustacea	Crustacea
163.		K. V. Jayachandran	College of Fisheries, Kerala Agricultural University, Panangad India	Crustacea/Malacostraca	Crustacea
164.		Jayasree Thilak	Scientist, Southern Regional Station, Zoological Survey of India, Tamil Nadu	Crustacea/ Cladocera	Crustacea
165.		V. Kapoor	Department of Earth Sciences, Indian Institute of Technology, Roorkee, India	Crustacea/ Ostracoda	Crustacea
166.		Ilona J. Kharkongor	Zoological Survey of India, North Eastern Regional Centre, Shillong (Meghalaya)	Crustacea	Crustacea
167.		S. C. Khosla	Mohanlal Sukhadia Univ, Dept Geol, Udaipur 313002, India;	Crustacea/ Ostracoda	Crustacea
168.		P. Krishnamurthy	Retired Scientist, Marine Biological Research Center, Zoological Survey of India, Chennai	Crustacea	Crustacea
169.		C. V. Kurian	Department of marine Sciences, University of Cochin, Kerala.	Crustacea	Crustacea
170.		D. M. Mahadey	Department of Earth Sciences, Indian Institute of Technology, Roorkee, India	Crustacea/ Ostracoda	Crustacea
171.		Kumari Manisha	Department of Geology, Mohanlal Sukhadia University, Udaipur, India	Crustacea/ Ostracoda	Crustacea
172.		Anil Mohapatra	Marine Aquarium and Research Centre, Digha, West Bengal	Crustacea	Crustacea

173.		M. L. Nagori	Mohanlal Sukhadia Univ, Dept Geol, Udaipur, India;	Crustacea/ Ostracoda	Crustacea
174.		S.K. Pati	Western Regional Centre, Zoological Survey of India, Pune Maharashtra	Crustacea	Crustacea
175.		M. B. Raghunathan	Retired Scientist, Southern Regional Station, Zoological Survey of India, Kolkata	Crustacea	Crustacea
176.		A. V. Raji	College of Fisheries, Kerala Agricultural University, Panangad India	Crustacea/Malacostraca	Crustacea
177.		P. D. Rane	Western Regional Centre, Zoological Survey of India, Pune- Maharashtra	Crustacea/ Branchiopoda	Crustacea
178.		Y. Ranga Reddy	Dept. of Zoology; Acharya Nagarjuna University; Nagarjunanagar- A.P.	Copepoda	Crustacea
179.		Shibananda Rath	Scientist, Zoological Survey of India, Kolkata	Crustacea Cytotaxonomy	Crustacea
180.		K. N. Reddy	Retired Scientist, Zoological Survey of India, Kolkata	Crustacea	Crustacea
181.		T. Roy	Retired Scientist, Zoological Survey of India, Kolkata	Crustacea	Crustacea
182.		J. Sankholli	Marine Biological Research Station, Ratnagiri, Maharashtra.	Crustacea	Crustacea
183.		R. Sharma	Department of Earth Sciences, Indian Institute of Technology, Roorkee, India	Crustacea/ Ostracoda	Crustacea
184.		Sumita Sharma	Retired Scientist, Eastern Regional Station, Zoological Survey of India Shillong-Meghalaya	Crustacea	Crustacea
185.		Bikramjit Sinha	Zoological Survey of India, Arunachal Pradesh Regional Centre	Zooplanktons	Crustacea
186.		K. Valarmathi	Scientist, Zoological Survey of India, Kolkata	Crustacea	Crustacea
187.		K. Venkataraman	Director, Zoological Survey of India, Kolkata	Crustacea	Crustacea
	Dictyoptera/ Mantodea				
188.		B. C. Das	Department of Zoology, Presidency College, Kolkata, India	Dictyoptera/ Mantodea	Dictyoptera/ Mantodea
189.		H. V. Ghate	Department of Zoology, Modem College, Shivajinagar, Pune	Dictyoptera/ Mantodea	Dictyoptera/ Mantodea
190.		A. K. Hazra	Retired Scientist, Zoological Survey of India, Kolkata	Dictyoptera/ Mantodea	Dictyoptera/ Mantodea

191.		S. S. Jadhav	Western Regional Centre, Zoological Survey of India, Pune- Maharashtra	Dictyoptera/ Mantodea	Dictyoptera/ Mantodea
192.		T. K. Mukherjee	West Bengal Education Service Kolkata	Dictyoptera/ Mantodea	Dictyoptera/ Mantodea
193.		T. Mukherjee	Department of Zoology, Presidency College, Kolkata, India	Dictyoptera/ Mantodea	Dictyoptera/ Mantodea
194.		M. C. Vyjayandi	Providence Womens Coll, Dept Zool, Calicut Kerala, India	Dictyoptera/ Mantodea	Dictyoptera/ Mantodea
	Diplura				
195.		G. P. Mandal	Scientist, Zoological Survey of India, Kolkata	Diplura	Diplura
196.		S. K. Mitra	Retired Scientist, Zoological Survey of India, Kolkata	Diplura	Diplura
197.		G. P. Mandal	Scientist, Zoological Survey of India, Kolkata	Diplura	Diplura
198.		S. K. Mitra	Retired Scientist, Zoological Survey of India, Kolkata	Diplura	Diplura
	Diptera				
199.		M. L. Agarwal	Department of Entomology, Birsa Agricultural University, Kanke, Ranchi India	Diptera/ Brachycera	Diptera
200.		D. Banerjee	Scientist, Zoological Survey of India, Kolkata	Diptera	Diptera
201.		R.Banerji	Bidhan Chandra Krishi Viswavidyalaya, Dept Agr Entomol, Nadia, W Bengal, India	Diptera/ Brachycera	Diptera
202.		S. S. Bhalerao		Cecidomyiidae	Diptera
203.		R. S. Bhandari	Entomology Division, Forest Research Institute, Dehra Dun	Diptera	Diptera
204.		K. Bhattacharjee	Retired Scientist, Zoological Survey of India, Kolkata	Diptera/ Brachycera	Diptera
205.		P. T. Cherian	Retired Scientist, Southern Regional Centre, Zoological Survey of India, Tamil Nadu	Chloropidae	Diptera
206.		P. K. Choudhuri	Department of Zoology, University of Burdwan, West Bengal.	Ceratopogonidae, Chironomidae, Sciaridae	Diptera
207.		S. K. Das	Bidhan Chandra Krishi Viswavidyalaya, Dept Agriculture Entomology W. Bengal, India	Diptera/ Brachycera	Diptera
208.		Sujit Dasgupta	University of Kolkata.	Ceratopogonidae, Culicidae	Diptera
209.		Swetapadma Dash	Estuarine Biological Station, Zoological Survey of India Orissa, India	Diptera	Diptera
210.		Datta, M.,	Retired Scientist,	Simuliidae, Tab	Diptera

			Zoological Survey of India, Kolkata	Syrphidae, Cely Diopsidae.	
211.		Devinder Singh	Department of Zoology, Punjabi University, Punjab, India	Diptera	Diptera
212.		P. K. Garg	School of Entomology, St. John's College, Agra, Uttar Pradesh.	Agromyzidae	Diptera
213.		G. P. Gupta	Entomology Division, Defence R & D Establishment, (MP), India	Diptera/ Nematocera	Diptera
214.		J. P. Gupta	Department of Zoology, Benaras Hindu University, Varanasi, Uttar Pradesh.	Drosophilidae	Diptera
215.		K. Ilango	Zoological Survey of India, Southern Regional Centre Chennai, India	Diptera/ Nematocera	Diptera
216.		M. Ipe	School of Entomology, St. John's College, Agra, Uttar Pradesh.	Agromyzidae	Diptera
217.		S. Jha	Bidhan Chandra Krishi Viswavidyalaya, Department of Agricultural Entomology, W. Bengal, India	Diptera/ Brachycera	Diptera
218.		A.N.T Joseph	Retired Scientist, Marine Biological Research Center, Zoological Survey of India, Chennai	Diptera	Diptera
219.		V. C. Kapoor	Punjab Agricultural University.	Sarcophagidae, Calliphoridae	Diptera
220.		B. K. Kaul	Department of Zoology, H. P. Krishi Visva Vidyalaya Himachal Pradesh.	Blephariceridae	Diptera
221.		A. K. Kulshrestha	Department of Zoology, Garhwal University, Garhwal, Srinagar-246174, Uttar Pradesh.	Chironomidae	Diptera
222.		Binay Kumar	Department of Entomology, Birsa Agricultural University, India	Diptera/ Brachycera	Diptera
223.		A. R. Lahiri	Retired Scientist, Zoological Survey of India, Kolkata	Diptera/ Brachycera	Diptera
224.		Geeta Maheshwari	B. S. A. College, Mathura.	Phlebotomidae, Culicidae	Diptera
225.		Girish Maheshwari	B. S. A. College, Mathura.	Phlebotomidae, Culicidae	Diptera
226.		M. J. Mendki	Entomology Division, Defence R & D Establishment, Jhansi (MP), India	Diptera/ Nematocera	Diptera
227.		Bulganin Mitra	Scientist, Zoological Survey of India, Kolkata	Diptera/ Brachycera	Diptera
228.		R. S. Mirdha	Scientist, Zoological Survey of India, Kolkata	Diptera/ Brachycera	Diptera
229.		Manu Mukherjee	Retired Scientist, Zoological Survey of India,	Diptera/ Brachycera	Diptera

			Kolkata		
230.		Bhanu Chandra Nandi	Department of Zoology, Krishnanagar Government College, Krishnanagar, Nadia, West Bengal.	Diptera	Diptera
231.		P. Parui	Retired Scientist, Zoological Survey of India, Kolkata	Asilidae, Tipulidae	Diptera
232.		Shri Prakash	Entomology Division, Defence R & D Establishment, Jhansi (MP), India	Diptera/ Nematocera	Diptera
233.		C. Radhakrishnan	Western Ghat Regional Centre, Zoological Survey of India,	Tephritidae	Diptera
234.		Sahoo, Shyamal Kr.,	Bidhan Chandra Krishi Viswavidyalaya, Dept Agriculture Entomology, Nadia, West Bengal, India	Diptera/ Brachycera	Diptera
235.		V. K Sehgal	Department of Entomology, G. B. Pant University of Agriculture and Technology, Pant Nagar, Nainital, Uttarakhand	Agromyzidae	Diptera
236.		R. M. Sharma	Western Regional Centre, Zoological Survey of India, Pune- Maharastra	Cecidomyiidae	Diptera
237.		Shuvra Kanti Sinha	Assistant Professor, Department of Zoology, Sonamukhi College, West Bengal, India	Diptera	Diptera
238.		Sidhu Inderpal Singh,	Department of Zoology, Punjabi University, Punjab, India	Diptera/ Brachycera	Diptera
239.		A. Singh	Department of Zoology, Punjab University, Punjab.	Tephritidae	Diptera
240.		B. K. Singh	Department of Zoology, Kumaun University, Nainital, Uttarakhand	Drosophilidae	Diptera
241.		Shuvra Kanti Sinha	Hooghly Mohsin College, West Bengal, India	Diptera/ Brachycera	Diptera
242.		K. Upadhyay	Uttarakhand	Drosophilidae	Diptera
243.		Vijay Veer	Entomology Division, Defence R & D Establishment, Jhansi Road, (MP), India	Diptera/ Nematocera	Diptera
244.		K. C. Verma	Entomology Division, Defence R & D Establishment, Jhansi Road, (MP), India	Diptera/ Nematocera	Diptera
	Embioptera				
245.		T. N. Ananthakrishnan	Rtd. Professor, Entomology Research Institute, Loyola College, Chennai, Tamil Nadu.	Embioptera	Embioptera
246.		B. L. Bradoo	Department of Zoology, D. A. V. College, Abohar,	Embioptera	Embioptera

			Punjab.		
247.		K. J. Joseph	Department of Zoology, University Centre, Calicut, Kerala.	Embioptera	Embioptera
	Ephemeroptera				
248.		K.G. Sivaramakrishnan	Madras Christian College, Tambaram East, Chennai	Ephemeroptera	Ephemeroptera
249.		K. A. Subramanian	Scientist, Zoological Survey of India, Kolkata	Ephemeroptera	Ephemeroptera
	Hemiptera				
250.		B. K. Agarwala	Department of Life Science, Tripura University, Agartala, Tripura.	Aphididae	Hemiptera
251.		S.R. Aland	Department of Zoology, Shivaji University, Kolhapur, Maharashtra	Pentatomidae	Hemiptera
252.		P. Dungtson Ambrose	Entomology Research Unit, Department of Zoology, St. Xaviers College, Palayamkottai	Reduviidae	Hemiptera
253.		P. Annakkodi	Department of Agricultural Entomology, Tamil Nadu Agricultural University, Coimbatore, India	Hemiptera/ Homoptera	Hemiptera
254.		S. Arivoli	Loyola College, Dept Adv Zoology and Biotechnology, Madras Tamil Nadu, India	Hemiptera/ Heteroptera	Hemiptera
255.		A. Bal	Scientist, Zoological Survey of India, Kolkata	Aquatic Hemiptera	Hemiptera
256.		M. Basu		Aphididae	Hemiptera
257.		R. C. Basu	Retired Scientist, Zoological Survey of India, Kolkata	Aphididae, Coreidae	Hemiptera
258.		D.L. Bharmal	Department of Zoology, Sri Pancham Kamraj Mahavidyalaya, Sawantwadi, Maharashtra.	Pentatomidae	Hemiptera
259.		H. R. Bhat	National Institute of Virology, Pune-Maharashtra	Cimicidae	Hemiptera
260.		B. Biswas	Scientist, Zoological Survey of India, Kolkata	Cercopidae, Membracidae, Reduviidae	Hemiptera
261.		S. Chakrabarti	Department of Zoology, University of Kalyani, West Bengal.	Aphididae	Hemiptera
262.		S. P. Chakraborty	Retired Scientist, Zoological Survey of India, Kolkata	Pentatomidae	Hemiptera
263.		M. S. V. Chalam	Acharya NG Ranga Agriculture Univ, Dept Entomology, Andhra Pradesh, India	Hemiptera/ Homoptera	Hemiptera
264.		N. P. Chopra	Department of	Coreidae,	Hemiptera

			Entomology, Haryana Agriculture University, Haryana.	Lygaeidae, Pentatomidae, Tingidae.	
265.		B. C. Das	Retired Scientist, Zoological Survey of India, Kolkata	Aphididae	Hemiptera
266.		B. V. David	Department of Entomology, Fedrick Institute of Plant Protection and Toxicology Tamil Nadu.	Agromyzidae	Hemiptera
267.		David, P. Manidurai Manoharan,	Tamil Nadu.	Hemiptera	Hemiptera
268.		Dubey, Anil Kumar	Wood Biodegradation Division, Institute of Wood Science & Technology	Hemiptera/ Homoptera	Hemiptera
269.		A. K. Ghosh	Retired Director, Zoological Survey of India, Kolkata	Aphididae	Hemiptera
270.		L. K. Ghosh	Retired Scientist, Zoological Survey of India Kolkata	Aphididae, Cicadellidae, membracidae, Psyllidae.	Hemiptera
271.		Maya Ghosh	Scientist, Zoological Survey of India, Kolkata	Cicadellidae, Fulgoridae, Cicadidae	Hemiptera
272.		Y. C. Gupta	B.S.A. College, Mathura-(U.P.)	Hemiptera	Hemiptera
273.		Hassan	Scientist, Zoological Survey of India, Kolkata	Hemiptera	Hemiptera
274.		Deepa Jaiswal	Scientist, Zoological Survey of India, Freshwater Biology Regional Centre, Hyderabad	Aquatic Hemiptera	Hemiptera
275.		C. Kandasamy		Psyllidae	Hemiptera
276.		Harbhajan Kaur	Department of Zoology, Punjabi University, Patiala, India	Heteroptera genetics	Hemiptera
277.		Sandeep Kush waha	Scientist, Central Zone Research Centre, Zoological Survey of India, Jabalpur, India	Hemiptera	Hemiptera
278.		David Livingst one	Department of Entomology, Fedric Institute of Plant Protection and Toxicology, Tamil Nadu.	Reduviidae	Hemiptera
279.		J. Lyngdoh	Zoological Survey of India, North Eastern Regional Centre, Shillong (Meghalaya)	Hemiptera	Hemiptera
280.		M. Mani	Division of Entomology and Nematology, Indian Institute of Horticultural Research, Bangalore	Hemiptera	Hemiptera
281.		S. C. Mitra	Retired Scientist, Zoological Survey of India, Kolkata	Coreidae	Hemiptera

282.		A. Mukhopadhyay	Department of Zoology, North Bengal University, Siliguri, Darjeeling, West Bengal.	Lygaeidae	Hemiptera
283.		N. Muraleedharan	UPASI Tea Estate, Coimbatore, Tamil Nadu.	Anthocoridae	Hemiptera
284.		Azim Nayyar	M. P.G. Department of Zoology, University of Kashmir, Srinagar- (J&K)	Pentatomidae	Hemiptera
285.		R. Puspa		Hemiptera	Hemiptera
286.		V Rama Subba Rao	Acharya NG Ranga Agr Univ, Dept Entomology, Andhra Pradesh, India	Hemiptera/ Homoptera	Hemiptera
287.		G. Ravichandran	Department of Entomology, Bharathiar University, Coimbatore Tamil Nadu.	Reduvidae	Hemiptera
288.		Dinendra Raychoudhuri,	Professor of Zoology, Department of Zoology, University of Kolkata	Aphididae	Hemiptera
289.		G. C. Sen	Retired Scientist, Zoological Survey of India, Kolkata	Cicadidae	Hemiptera
290.		Rajendra Singh	Department of Zoology, Gorakhpur University,	Aphididae	Hemiptera
291.		Allesh P. Sinu	Central University, Kasargod	Coleoptera	Hemiptera
292.		A. S. Sohi	Department of Entomology, Punjab Agricultural University. Ludhiana	Hemiptera / Cicadellidae	Hemiptera
293.		Y. B. Srinivasa	University of Agriculture of Science Bangalore, GKVK, Karnataka, India	Hemiptera/ Homoptera	Hemiptera
294.		K. Sudheer	Department of Agricultural Entomology, Tamil Nadu Agricultural University	Hemiptera/ Homoptera	Hemiptera
295.		R. Sundarraj	Wood Biodegradation Division, Institute of Wood Science & Technology, Karnataka	Hemiptera/ Homoptera	Hemiptera
296.		M. K.Usmani	Uttar Pradesh	Aphididae	Hemiptera
297.		R. K. Varshney	Retired Scientist, Zoological Survey of India, Kolkata	Coccoidea	Hemiptera
298.		P.Venkatesan	Loyola Coll, Dept Adv Zool and Biotechnol, Madras 600034, Tamil Nadu, India	Hemiptera/ Heteroptera	Hemiptera
299.		C. A. Viraktamath	Department of Entomology, University of Agricultural Science, Karnataka.	Cicadellidae	Hemiptera
300.		F. A. Zaki	Division of Entomology, S.K. University of Agricultural Sciences & Technology of Kashmir, Shalimar, Srinagar	Hemiptera/Homoptera	Hemiptera
	Hymen				

	optera				
301.		Meena Agnihotri	ICAR, Project Directorate Biol Control, Karnataka	Hymenoptera/ Apocrita	Hymenoptera
302.		Himender Bharti	Department of Zoology, Punjabi University, Punjab, India	Formicidae	Hymenoptera
303.		Bharti, Himender	Panjabi University, Patiala	Taxonomy of Formicidae	Hymenoptera
304.		Girish Chandra	Department of Zoology, K. M. College, University of Delhi.	Hymenoptera	Hymenoptera
305.		S. I. Farooqui	Division of Entomology, Indian Agricultural Research Institute, Pusa, New Delhi.	Hymenoptera	Hymenoptera
306.		Soumyendra Nath Ghosh	Biodiversity Board of West Bengal.	Vespoidea	Hymenoptera
307.		Kumar P.Girish	Scientist, Zoological Survey of India, Kolkata	Hymenoptera/ Apocrita	Hymenoptera
308.		Ankita Gupta	ICAR, Project Directorate Biol Control, Karnataka, India;	Hymenoptera/ Apocrita	Hymenoptera
309.		R. K. Gupta	Department of Zoology, Rajrishi College, Alwar-301 001, Rajasthan.	Hymenoptera	Hymenoptera
310.		S. K. Gupta	Northern Regional Centre, Zoological Survey of India	Hymenoptera	Hymenoptera
311.		MohammadHayat	Department of Zoology, Aligarh Muslim University, Uttar Pradesh	Hymenoptera	Hymenoptera
312.		Joseph K. Jonathan	Retired Scientist, Zoological Survey of India, Kolkata	Ichneumonidae	Hymenoptera
313.		K. J. Joseph	Agricultural University, Vellanikkare, Trichur- 680 654, Kerala.	Hymenoptera	Hymenoptera
314.		R. Kanagaraj	Systematic Entomology Laboratory, Department of Zoology, University of Calicut, Kerala	Hymenoptera/ Apocrita	Hymenoptera
315.		Karmaly	St. Thomas College, Alwaye, Kerala	Formicidae	Hymenoptera
316.		S. I. Kazmi	Scientist, Zoological Survey of India, Kolkata	Parasitic Hymenoptera	Hymenoptera
317.		F. R. Khan	Aligarh Muslim University, Uttar Pradesh.	Parasitic Hymenoptera	Hymenoptera
318.		M. A. Khan	ICAR, Project Directorate Biol Control, PB 2491, HA Farm Post, Bellary Rd, Bangalore 560024, Karnataka, India;	Hymenoptera/ Apocrita	Hymenoptera
319.		S. Manickavasagam	Systematic Entomology Laboratory, Department of Zoology, University of Calicut, Kerala	Hymenoptera/ Apocrita	Hymenoptera
320.		H. Nagraja		Trichogrammatidae	Hymenoptera
321.		T. C. Narendran	University of Calicut, Calicut- Kerala.	Hymenoptera	Hymenoptera

322.		P. K. Nikam	Department of Zoology, Marathawada Maharashtra.	Hymenoptera	Hymenoptera
323.		S. M. Nikam		Ichneumonidae	Hymenoptera
324.		D. Priyadarshan	Ashoka Trust For Ecology and Environment, Jakkur, Bangalore	Hymenoptera	Hymenoptera
325.		K.Rajmohana	Western Ghat Regional Centre, Zoological Survey of India, Kozhikode	Hymenoptera	Hymenoptera
326.		M. S. Saini	Department of Zoology, Punjabi University	Symphyta	Hymenoptera
327.		Santhosh Shreevihar	Assistant Professor of Zoology Malabar Christian College	Chrysidoidea	Hymenoptera
328.		T. V. Sathe	Department of Zoology, Shivaji University, Kolhapur	Hymenoptera/ Apocrita	Hymenoptera
329.		Mohammad Shamim	Department of Zoology Aligarh Muslim University Aligarh	Brachonidae	Hymenoptera
330.		S. K. Sharma	St. John's College, Agra, Uttar Pradesh.	Hymenoptera	Hymenoptera
331.		V. Sharma	Department of Zoology, Jodhpur University, Rajasthan.	Hymenoptera	Hymenoptera
332.		Saroj Sheela	Scientist, Zoological Survey of India, Kolkata	Formicidae, Parasitic Hymenoptera	Hymenoptera
333.		D. Singh	Department of Zoology, Punjabi University	Hymenoptera	Hymenoptera
334.		Sudhir Singh	Forest Protection Division, Institute of Rain and Moist deciduous Forests Research, Assam.	Hymenoptera	Hymenoptera
335.		K. Sudheer	Systematic Entomology Laboratory, Department of Zoology, University of Calicut, Kerala	Hymenoptera	Hymenoptera
336.		Sujauddin,	Department of Zoology, Aligarh Muslim University, Uttar Pradesh.	Hymenoptera	Hymenoptera
337.		P. M. Sureshan	Western Ghat Regional Centre, Zoological Survey of India, Kozhikode	Hymenoptera	Hymenoptera
338.		N. Tak	Scientist, Zoological Survey of India, Kolkata	Formicidae	Hymenoptera
339.		Thomas Thjresi amma	Centre for Ecological Sciences, Indian Institute of Science, Bangalore	Formicidae	Hymenoptera
340.		R. N. Tiwari	Retired Scientist, Zoological Survey of India, Kolkata	Hymenoptera	Hymenoptera
341.		Thresiamma Varghese	Centre for Ecological Sciences, Indian Institute of Science, Bangalore, India	Hymenoptera/ Apocrita	Hymenoptera
342.		Mohammad	Central University of	Trichogrammat	Hymenoptera

		Yousuf	Kashmir	idae, Brachonidae.	
	Isoptera				
343.		Gita Bose	Retired Scientist, Zoological Survey of India, Kolkata	Isoptera	Isoptera
344.		P. K. Maiti	Retired Scientist, Zoological Survey of India, Kolkata	Isoptera	Isoptera
345.		Madhumita Mandal	Desert Regional Station, Zoological Survey of India, Jodhpur	Isoptera	Isoptera
346.		N. S. Rathore	Retired Scientist, Desert Regional Station, Zoological Survey of India, Jodhpur	Isoptera	Isoptera
347.		P. H. Roy	Retired Scientist, Zoological Survey of India, Kolkata	Isoptera	Isoptera
348.		Nivedita Saha	Scientist, Zoological Survey of India, Kolkata	Isoptera	Isoptera
349.		N. B. Singh	Animal Science Department, Faculty of Applied Sciences, M.J.P. Rohilkhand University, Bareilly	Taxonomy and Ecology	Isoptera
350.		Sachin Srivastava	Animal Science Department, Faculty of Applied Sciences, M.J.P. Rohilkhand University, Bareilly	Taxonomy and Ecology	Isoptera
351.		N. Tak	Scientist, Zoological Survey of India, Kolkata	Isoptera	Isoptera
352.		M. L.Thakur	Retired Scientist, Forest Research Institute, Dehra Dun.	Isoptera	Isoptera
353.		Ajit Varma	School of Life Sciences, Jawaharlal Nehru University, New Delhi, India	Ecology of Isoptera	Isoptera
	Lepidoptera				
354.		Haider Arshad Ali	Department of Zoology, Aligarh Muslim University	Lepidoptera/ Glossata/ Heteroneura	Lepidoptera
355.		G. S. Arora	Retired Scientist, Zoological Survey of India, Kolkata	Lepidoptera	Lepidoptera
356.		D. P. Bhattacharya	Retired Scientist, Zoological Survey of India, Kolkata	Lepidoptera	Lepidoptera
357.		S. Chakrabarti	Himalayan Forest Research Institute, Conifer Campus, Shimla Himachal Pradesh	Lepidoptera/ Glossata/ Heteroneura	Lepidoptera
358.		A. Chander	Forest Research Institute, Dehra Dun	Geometridae, Pyralidae	Lepidoptera
359.		K. Chandra	Scientist, Zoological Survey of India, Kolkata	Lepidoptera	Lepidoptera

360.		Judhajit Dasgupta	IBM, Kolkata.	Lepidoptera	Lepidoptera
361.		S. K. Ghosh	Retired Scientist, Zoological Survey of India, Kolkata	Lepidoptera	Lepidoptera
362.		Navneet Singh Gill	Gangetic Plains Regional Station, Zoological Survey of India, Patna- Bihar	Lepidoptera/ Glossata/ Heteroneura	Lepidoptera
363.		I. J. Gupta	Retired Scientist, Zoological Survey of India, Kolkata	Lepidoptera	Lepidoptera
364.		S. L. Gupta	Division of Entomology, Indian Agricultural Research Institute, Pusa, New Delhi	Lymantriidae and allied moths.	Lepidoptera
365.		D. Gurung	Himalayan Forest Research Institute, Conifer Campus, Shimla Himachal Pradesh	Lepidoptera/ Glossata/ Heteroneura	Lepidoptera
366.		Meena Haribal	Bombay Natural History Society, Hornbill House, Bombay, Maharashtra	Rhopalocera	Lepidoptera
367.		Isaac Kehimkar	Bombay Natural History Society, Hornbill House, Bombay, Maharashtra	Lepidoptera	Lepidoptera
368.		K. S. Khokhar	Krishi Vigyan Kendra, Plant Protect Div, Dabwali Punjab, India	Lepidoptera/ Glossata/ Heteroptera	Lepidoptera
369.		Jagbir Singh Kirti	Department of Zoology, Punjabi University, Punjab, India	Lepidoptera/ Glossata/ Heteroneura	Lepidoptera
370.		Pramod Kumar	Northern Regional Centre, Zoological Survey of India, Uttarkhand	Lepidoptera	Lepidoptera
371.		Rishi Kumar	Krishi Vigyan Kendra, Plant Protect Div, Dabwali Punjab, India	Lepidoptera/ Glossata/ Heteroptera	Lepidoptera
372.		KushnameghKunte	National Center for Biological Sciences GKVK, Bengaluru	Lepidoptera	Lepidoptera
373.		M. Majumdar	Scientist, Zoological Survey of India, Kolkata	Rhopalocera	Lepidoptera
374.		D. R. Maulik	Retired Scientist, Zoological Survey of India, Kolkata	Lepidoptera	Lepidoptera
375.		V. G. Mironov	Jammu and Kashmir.	Lepidoptera	Lepidoptera
376.		D. K. Mondal	Retired Scientist, Zoological Survey of India, Kolkata	Lepidoptera	Lepidoptera
377.		H. R. Pajni	Department of Zoology, Punjab University, Chandigarh- Punjab.	Pyralidae	Lepidoptera
378.		Amrit Pal	Department of Zoology, Punjabi University, Patiala-Punjab, India	Lepidoptera/ Glossata/ Heteroneura	Lepidoptera
379.		Muhamed Jafer Palot	Western Ghat Regional Centre, Zoological Survey of India, Kozhikode	Lepidoptera (Rhopalocera)	Lepidoptera
380.		P. C. Pathania	Division of Entomology, Indian Agricultural	Lepidoptera/Glossata/	Lepidoptera

			Research Institute, New Delhi	heteroneura	
381.		C. Radhakrishnan	Western Ghat Regional Centre, Zoological Survey of India, Kozhikode	Lepidoptera	Lepidoptera
382.		H. S. Rose	Punjabi University	Lepidoptera	Lepidoptera
383.		S. Sambath	Central Zone Research Centre, Zoological Survey of India, Jabalpur, India	Lepidoptera	Lepidoptera
384.		Ahmad Samiuddin	Department of Zoology, Aligarh Muslim University, Uttar Pradesh	Lepidoptera/ Glossata/ Heteroneura	Lepidoptera
385.		N. Sharma	Scientist, Zoological Survey of India, Northern Regional Centre, Dehradun.	Lepidoptera	Lepidoptera
386.		Avtar Kaur Sidhu	Scientist, High Altitude Regional Centre, Himachal Pradesh.	Lepidoptera	Lepidoptera
387.		Arun Pratap Singh	RFRI, Jorhat, Assam.	Lepidoptera	Lepidoptera
388.		Kaleka Singh	Department of Zoology, Punjabi University, Patiala India	Lepidoptera/ Glossata/ Heteroneura	Lepidoptera
389.		P. Singh	Forest Research Institute, Dehradun	Geometridae, Pyralidae	Lepidoptera
390.		Jagpreet Singh Sodhi	Department of Zoology, Punjabi University, Patiala India	Lepidoptera/ Glossata/ Heteroneura	Lepidoptera
391.		Rachita Sood	Division of Entomology, Indian Agricultural Research Institute, New Delhi	Lepidoptera/Glossata/ heteroneura	Lepidoptera
392.		Ajai Srivastava	High Altitude Zoology Field Station, Zoological Survey of India, Solan H.P., India	Lepidoptera	Lepidoptera
393.		V.P. Uniyal	Wildlife Institute of India, Chandrabani, Dehradun, Uttarakhand	Lepidoptera	Lepidoptera
394.		R.K. Varshney	Retired Scientist, Zoological Survey of India, Aligarh, Uttar Pradesh.	Lepidoptera	Lepidoptera
395.		Deepak Wadhawan	Entomology Section, Department of Zoology, Panjab University, Chandigarh India	Lepidoptera/ Glossata/ Heteroneura	Lepidoptera
396.		Virendra Kumar Walia	Entomology Section, Department of Zoology, Panjab University, Chandigarh, India	Lepidoptera/ Glossata/ Heteroneura	Lepidoptera
	Myriapoda				
397.		K. Prabhakar Achar	Sri Bhuvendra College, Karnataka	Myriapoda	Myriapoda
398.		B. S. Iangi		Myriapoda	Myriapoda
399.		Vinod Khanna	Retired Scientist, Northern Regional Station, Zoological Survey of	Myriapoda	Myriapoda

			India, Dehra Dun		
400.		Mary Bai	Retired Scientist, Southern Regional Centre, Zoological Survey of India, Tamil Nadu.	Myriapoda	Myriapoda
	Neuroptera				
401.		S. K. Ghosh	Retired Scientist, Zoological Survey of India Kolkata	Neuroptera	Neuroptera
	Odonata				
402.		R. J. Andrew	Hishop College, Nagpur.	Odonata	Odonata
403.		R. Babu	Scientist, Zoological Survey of India Kolkata	Odonata	Odonata
404.		K. G. Emiliyamma	Western Ghat Regional Centre, Zoological Survey of India, Kozhikode	Odonata	Odonata
405.		N. Ganapathy	Krishi vigyan Kendra, Vriddhachalam, Tamil Nadu, India	Odonata	Odonata
406.		M. Kandibane	Krishi vigyan Kendra, Vriddhachalam, Tamil Nadu, India	Odonata	Odonata
407.		Arun Kumar	Retired Scientist, Northern Regional Station, Zoological Survey of India, Dehra Dun, India	Odonata	Odonata
408.		A. R. Lahiri	Retired Scientist, Zoological Survey of India, Kolkata	Odonata	Odonata
409.		T.R Mitra	Retired Scientist, Zoological Survey of India, Kolkata	Odonata	Odonata
410.		Manoj V. Nair	IFS, Odisha State Forest Department.	Odonata	Odonata
411.		Supriya Nandy	Scientist, Zoological Survey of India, Kolkata	Odonata	Odonata
412.		Mahabir Prasad	Retired Scientist, Zoological Survey of India Kolkata	Odonata	Odonata
413.		S. Raguraman	Krishi vigyan Kendra, Vriddhachalam, Tamil Nadu, India	Odonata	Odonata
414.		Gaurav Sharma	Scientist, Zoological Survey of India, Kolkata	Odonata	Odonata
415.		Chhaya Sinha	Retired Scientist, Zoological Survey of India, Kolkata	Odonata	Odonata
416.		B. K. Srivastava	Department of Zoology, University of Sagar, Madhya Pradesh.	Odonata	Odonata
417.		K. A. Subramanian	Scientist, Zoological Survey of India, Kolkata	Odonata	Odonata
418.		Manu Thomas	Madras Christian College, Chennai.	Odonata	Odonata
419.		B. K. Tyagi	Centre for Research in Medical Entomology,	Odonata	Odonata

			Madurai, Tamil Nadu		
420.		Gurinder Kaur Walia	Department of Zoology, Punjabi University, Punjab, India	Odonata Genetics	Odonata
	Orthoptera				
421.		Hena Anand	Department of Zoology, Visva-Bharati University, West Bengal, India	Orthoptera/ Saltatoria	Orthoptera
422.		S. K. Ashwath	Department of Zoology, University of Mysore, India	Orthoptera	Orthoptera
423.		N. V. Aswathanarayana	Department of Zoology, University of Mysore, India	Orthoptera	Orthoptera
424.		Rohini Balakrishnan	Centre for Ecological Sciences, Indian Institute of Science, Bangalore, India;	Orthoptera/ Saltatoria	Orthoptera
425.		D. Nizara Barthakur	Rain Forest Research Institute, Jorhat- Assam, India	Orthoptera	Orthoptera
426.		N. J. Borah	Rain Forest Research Institute, Jorhat- 785001 Assam, India	Orthoptera	Orthoptera
427.		Suresh Chand	Sundarban Field Research Station, Zoological Survey of India, West Bengal, India	Orthoptera	Orthoptera
428.		Anita Dey	Retired Scientist, Zoological Survey of India, 'M' Block, New Alipore, Kolkata- 700 053	Orthoptera/ Saltatoria	Orthoptera
429.		Sunil Kumar Gupta	Retired Scientist, Zoological Survey of India, Kolkata	Orthoptera	Orthoptera
430.		P. Halder	Department of Zoology, Visva-Bharati University West Bengal.	Orthoptera	Orthoptera
431.		A. K. Hazra	Retired Scientist, Zoological Survey of India, Kolkata	Orthoptera	Orthoptera
432.		P. P. Kulkarni	ZSI Kolkata.	Orthoptera	Orthoptera
433.		S. K. Mandal	Retired Scientist, Zoological Survey of India, Kolkata	Orthoptera	Orthoptera
434.		V. K. Mattu	Himachal Pradesh University Dept Biosci, Simla, Himachal Pradesh, India	Orthoptera	Orthoptera
435.		D. Prabakar	Western Ghat Regional Centre, Zoological Survey of India, Kozhikode	Orthoptera/ Saltatoria	Orthoptera
436.		Shabir A. Reshi	University of Kashmir	Orthoptera	Orthoptera
437.		T. Roy	Retired Scientist, Zoological Survey of India, Kolkata	Orthoptera	Orthoptera
438.		Hiroj Kr. Saha	Department of Zoology, Visva-Bharati University,	Orthoptera/ Saltatoria	Orthoptera

			West Bengal, India		
439.		Kamal Saini	High Altitude Zoology Field Station, Zoological Survey of India, Solan H.P., India	Orthoptera	Orthoptera
440.		N. Senthlikumar	Rain Forest Research Institute, Jorhat-Assam, India	Orthoptera	Orthoptera
441.		M. S. Shishodia	Retired Scientist, Zoological Survey of India, Kolkata	Orthoptera	Orthoptera
442.		A. K. Singh	Retired Scientist, Zoological Survey of India, Kolkata	Orthoptera Cytotaxonomy	Orthoptera
443.		Asket Singh	Retired Scientist, Zoological Survey of India, Punjab.	Orthoptera	Orthoptera
444.		G. Srinivasan	Scientist, Zoological Survey of India, Kolkata	Orthoptera	Orthoptera
445.		P. M. Sureshan	Scientist, Zoological Survey of India, Kolkata	Orthoptera	Orthoptera
446.		S. K. Tandon	Retired Scientist, Zoological Survey of India, Kolkata	Orthoptera	Orthoptera
447.		S. K. Thakur	Himachal Pradesh Univ, Dept Biosci, Simla, Himachal Pradesh, India	Orthoptera	Orthoptera
	Plecoptera				
448.		B. C. Das	Retired Scientist, Zoological Survey of India, Kolkata	Plecoptera	Plecoptera
449.		Sivaramakrishnan,K.G.	No. 5, 'RAMS', Natesan Street, Tyagaraja Nagar, Chennai	Plecoptera	Plecoptera
	Protura				
450.		R. Bano,	Western Regional Centre, Zoological Survey of India, Vdiya Nagar, Pune Maharashtra.	Protura	Protura
	Strepsiptera				
451.		P. K. Chaudhury	Department of Zoology, University of Burdwan, West Bengal.	Strepsiptera	Strepsiptera
452.		S. K. Dasgupta	Department of Zoology, Presidency College, Kolkata, West Bengal.	Strepsiptera	Strepsiptera
453.		Alpana,Majumder	Department of Zoology, University of Burdwan-713 104, West Bengal.	Strepsiptera	Strepsiptera
	Thysanoptera				
454.		T. N. Ananthakrishnan	Entomology Research Institute, Loyola College, Chennai, Tamil Nadu.	Thysanoptera	Thysanoptera
455.		J. S. Bhatti	Hans Raj College, New Delhi	Thysanoptera	Thysanoptera

456.		R. H. Kamble	Retired Scientist, Western Regional Station, Zoological Survey of India, Pune- Maharashtra.	Thysanoptera	Thysanoptera
457.		Vikas Kumar	Scientist, Zoological Survey of India, Kolkata	Thysanoptera	Thysanoptera
458.		N. K. Pramanik	Retired Scientist, Zoological Survey of India, Kolkata	Thysanoptera	Thysanoptera
459.		S. Sen	Retired Scientist, Zoological Survey of India, Kolkata	Thysanoptera	Thysanoptera
460.		C. K. Sengupta	Retired Scientist, Zoological Survey of India, Kolkata	Thysanoptera	Thysanoptera
461.		Kaomud. Tyagi	Scientist, Zoological Survey of India, Kolkata	Thysanoptera	Thysanoptera
	Thysanura				
462.		A. K. Hazra	Retired Scientist, Zoological Survey of India, Kolkata	Thysanura	Thysanura
463.		Mandal, G. P.,	Scientist, Zoological Survey of India, Kolkata	Thysanura	Thysanura
464.		S. K. Mitra	Retired Scientist, Zoological Survey of India, Kolkata	Thysanura	Thysanura
	Trichoptera				
465.		S. K. Ghosh	Retired Scientist, Zoological Survey of India, Kolkata	Trichoptera	Trichoptera
466.		M. Majumdar	Scientist, Zoological Survey of India, Kolkata	Trichoptera	Trichoptera
467.		K.G. Sivarama krishnan	Dept. of Zoology, Madras Christian College, Tambaram East, Chennai	Trichoptera	Trichoptera

*The primary data of this table has been majorly adapted by the pdf online available https://zsi.gov.in/App/regcenters.aspx?reg=1559&link=538 and has been modified accordingly.

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REFERENCES

Ajmal Ali, M., Choudhary R.K., India needs more plant taxonomists. Nature. 2011, 471 (7336), 37. doi:10.1038/471037d

Bandyopadhyay, S., Re: What will be the fate of Taxonomy? 2018, Retrieved from: https://www.researchgate.net/post/What-will-be-the-fate-of Taxonomy/5bcb42024f3a3e61ff4b4a8a/citation/download.

Dharmapalan, B., Role of funding agencies for the betterment of taxonomy. Curr. Sci. 2001, 81(6), 629.

Hariharan G.N., Balaji, P., Taxonomic research in India: Future prospects. Curr Sci. 2002, 83(9), 1068-1070.

Heike, W., Wägele, H., Annette, K-K., et al., The taxonomist - an endangered race. A practical proposal for its survival. Front Zool. 2011, 8(1), 25. doi:10.1186/1742-9994-8-25.

IPNI. International Plant Names Index. Published on the Internet http://www.ipni.org, The Royal Botanic Gardens, Kew, Harvard University Herbaria & Libraries and Australian National Botanic Gardens. 2020 [Retrieved 31 July 2020]

Kholia, B.S., & Fraser-Jenkins, C., Misidentification makes scientific publications worthless – save our taxonomy and taxonomists. Curr. Sci., 2011, 100(4), 458-461.

Mahamood, M., Re: What will be the fate of Taxonomy? 2018, Retrieved from: https://www.researchgate.net/post/What-will-be-the-fate-of-Taxonomy/5bd01be6a7cbaf596d514371/citation/download.

McGregor, S.E., 1976. Insect pollination of cultivated crop plants. Available in http://www.beeculture.com/content/pollination handbook/strawberry-1.html (9 Mar. 2009).

Narendran, T.C., Taxonomic entomology: Research and education in India. Curr. Sci., 2001, 81(5), 445–447.

Sankarganesh, E., Insect Biodiversity: The Teeming Millions - A review. Bull. Env. Pharmacol. Life Sci.,Vol. 6,Special issues [3], 2017, 101 – 105.

Venkataraman K, Sivaperuman C., Biodiversity Hotspots in India. In: Indian Hotspots. (eds Sivaperuman, C., Venkataraman, K.,) Springer Singapore, 2018, 1 – 27. doi:10.1007/978-981-10-6605-4_1

Wheeler, Q. D., Introductory: Toward the New Taxonomy. In: The new taxonomy. Boca Raton (Fla): CRC press, 2008, 1-18.

https://zsi.gov.in/App/regcenters.aspx?reg=1559&link=538

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