



19-21
FEBRUARY
2018

ABOUT THE DEPARTMENT

ORGANIZING COMMITTEE

The University Department of Zoology was established as a full-fledged teaching and research department in July, 1968, at Kariavattom with the late Prof. K. K. Nayar as the Professor and Head of the Department. During the formative period, the department was concentrating mainly on research, the principal field being Comparative Endocrinology of Invertebrates, especially insects. There were many research projects during that period supported by various agencies like the Ford Foundation, PL 480, CSIR, UGC, INSA, ICMR, ICAR, Tea Board, Atomic Energy Commission, etc. and the research activities of the Department were organized along definite lines with an active group of research workers pursuing one or more lines of study.

The department started the M.Sc. and M.Phil. Courses in Zoology (Pure and Applied) in 1983-1984. The department has produced 100 % pass in all the examinations with high degree of First Classes. For the Ph.D. programme, this has been offered in the department since its inception. The Department has so far produced more than 100 Ph.D, 200 M.Phil and more than 1000 research publications in national and international journals

The main areas of research chosen by candidates for the Ph.D. and M. Phil. Programmes are: - Insect Physiology, Endocrinology, Muscle Physiology, Wild Life Biology, Animal Physiology, Animal Behaviour, Vector Biology, Environmental Biology, Stress Physiology, Fish Biology, Aquatic ecology and Conservation Biology. Active research in these areas is in progress with substantial financial aids from national funding agencies are there. The successful implementation of the research projects covering these areas is instrumental for the recognition in the field of Basic and Applied Zoology research. The Department is celebrating its Golden Jubilee year in 2018.

CHIEF PATRON

Prof. P. K. Radhakrishnan
Vice Chancellor, University of Kerala

MEMBERS

Prof. P. M. Radhamany
Member of Syndicate, and Head, Dept. of Botany, University of Kerala

Prof. M. C. Subhash Peter

Head, Department of Zoology, University of Kerala

Prof. A. Bijukumar

Dean, Faculty of Science, & Director, Research, University of Kerala

Prof. Achuthshankar S. Nair

Dean, Faculty of Applied Science and Director, IQAC & Head, Department of Computational Biology and Bioinformatics

Dr. A. Gangaprasad

Member Senate University of Kerala

Dr. P. Sreejith

Asst. Professor, Dept. of Zoology, University of Kerala

Dr. Benno Pereira

Asst. Professor, Dept. of Zoology, University of Kerala

Smt. V. K. Jeejakumari

Asst. Professor, Dept. of Zoology, University of Kerala

Dr. Sunitha S

Lecturer, Dept. of Zoology, University of Kerala

Sri. Jyothi K. S

Dept. of Zoology, University of Kerala

ORGANIZING SECRETARY

Dr. G. Prasad

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NATIONAL SEMINAR ON RECENT TRENDS IN

ZOOLOGICAL RESEARCH



DEPARTMENT OF ZOOLOGY UNIVERSITY OF KERALA



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The subject Zoology is one of the oldest biological discipline with a promising future for its followers and developers. The development of new theories and research findings increases the excitement of this subject day by day. As the heading says the "Recent Advances in Zoological Research" is a wide Scientific platform will bring researchers and academicians of various zoological subdivision covering evolution, genomics, proteomics, immunology, ecology, biological diversity and its conservation etc. The seminar will further help in raising future direction of zoological science as well as creating awareness about the importance of zoological research in different fields and matching this with the job market. Zoology is an evergreen vast biological discipline covering from taxonomic details of animal groups with a promising future. As the analysis of organelles, organs, organisms and their association changes, their status of recognition do evolve in the long history of biological science. This has taken place. As the title of the seminar suggests, the proposed seminar will be aimed to cover vast areas of Zoological Sciences, like Ecology, Molecular Biology, Biochemistry, Physiology, Genetics and Immunology, Animal Behaviour and other fields. Eminent persons will be addressing current issues and developments in their fields, and research scholars from various branches will be presenting their research findings under one umbrella. Zoologists are concerned with theoretical topics as diverse as molecular evolution, physiology, behaviour and community ecology and with applied aspects from fauna conservation and pest management to stream ecology and water quality studies. The seminar discussion will be a showcase of current perspective in animal sciences. Today, it occasionally appears as though, due to rapid expansion of life science, zoology has been replaced by more or less independent sub-disciplines. However, the recent advances of molecular methodology into classical fields of biology and the development of theories that can be explained on different levels of organization has led to a re-integration of zoological disciplines promoting a broader than usual approach to zoological questions. Zoology has re-emerged as an integrating discipline encompassing the most diverse aspects of animal life, from the level of the gene to the level of the ecosystem. It aims to represent and re-unite the various disciplines that look at animal life from different perspectives and at providing the basis for a comprehensive understanding of zoological

phenomena on all levels of analysis. The lecture topics of the seminar will provide an opportunity for both students and faculty to interact with the scientists/academicians from other institutions and encourage students to involve in scientific discussion by asking questions.

Being one of the oldest Departments of the University, and it is celebrating its Golden Jubilee Year in 2018, the Department of Zoology strives to promote all round development of students by inculcating spirit of inquest, discipline and adventure. In this context we would like to bring all who involved in the Zoological Research under one umbrella by organizing a National Seminar for the making a platform to present and interact their research findings.

STRUCTURE OF THE SEMINAR

The seminar will be held in the Department of Zoology, University of Kerala, Thiruvananthapuram. It features keynote address, lead talks and paper presentations by participants. Participants are requested to send papers related to the mentioned themes for presentation. All the presented papers will be compiled and proceedings will be published as a book.

Major theme areas in the Seminar are the following:

- Animal Physiology and Endocrinology
- Aquatic Biology & Fisheries Sciences
- Biodiversity, National resources and Conservation strategies
- Biotechnology
- Immunology and Bioinformatics
- Environmental Pollution and Technology
- Genetics, Transgenesis and Evolution
- Global Warming/Climate change, its impact and mitigation strategies
- Parasitology, and Vector Borne Diseases
- Molecular Biology
- Taxonomy and Developmental Biology
- Wild life, Management & Conservation
- Animal behaviour
- Nanotechnology and Neo-Biology

CALL FOR PAPERS

Papers are invited on the above themes for oral presentationsessions or poster session. A student prize will be awarded for the best presentation among the young scientists (Ph. D. and Post-doctoral students below 35 years). Those who in tend to compete for the student prize should send two copies of fullpapers, proof of date of birth and a certificate from the Head ofthe Department/Research Supervisor that the work is bonafide. For best presentation, a cash prize will be given. The details and the schedule for receipt of abstracts and papers as follows.

SUBMISSION OF ABSTRACTS

Abstract of scientific papers on various themes not exceeding 300 words must be submitted on or before **12th February 2018** as an e-mail attachment and the name of the presenting author should be underlined. The abstract should be prepared in Times New Roman 12 point size and the title. The title should be bold and followed by the author/s and the affiliation address in full along with e -mail. Organizers have a choice to select the abstract either for oral or poster presentation. Please send e-mail to:probios1@gmail.com.

REGISTRATION

Those persons intending to register for the Seminar should do so on or before **15th January 2018**. To register, please contact the Organizing Secretary or send the Registration form directly to the organizing secretary.

The registration fee is

Rs. 1500/- for faculty and scientists

Rs. 1000/- for Research Scholars.

Rs. 750/- for PG students.

The payment has to be made by account payee Demand Draft or online payment only, payable at State Bank of India, Kariavattom branch, Kerala University campus, in favour of the Organizing Secretary, National Seminar on Biodiversity Conservation. Registration includes the programme, Conference kit, morning and afternoon tea and lunches. For more details contact the Organizing Secretary.

ACCOMMODATION

Accommodation should be arranged by participants and local help will be provided by the organizers. Limited accommodation facility is available in the University Guest house which will be allotted on first come first serve basis.

