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Dr. A.V.RAJASHEKHAR

Organizing Secretary (AIVA-II)

Department of Zoology, University College of Science,
Osmania University, Hyderabad - 500 007, T.S

E mail id: dravraj@gmail.com or ucsouaiva@gmail.com

Mobile: +91- 9908314124, 9032587734

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UGC & TSCE Sponsored
2nd National Conference on

**"ADVANCES IN INSECT VECTOR CONTROL
AND APPLIED BIOLOGY" (AIVA-II)**

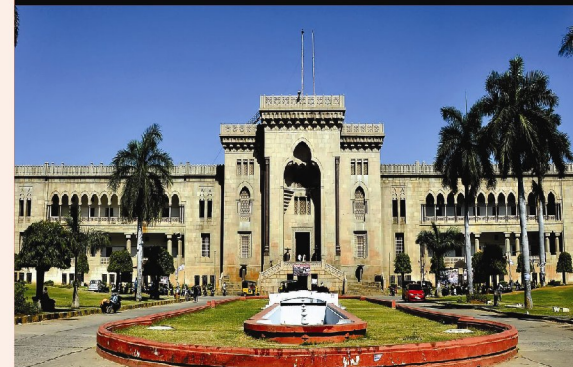
on
27th & 28th February, 2018



Ronald Ross
1857- 1932



The belief is growing on me that the disease is communicated by the bite of the mosquito... She always injects a small quantity of fluid with her bite - what if the parasites get into the system in this manner.



Venue: Department of Zoology,
University College of Science, Osmania University,
Hyderabad - 500007, Telangana

Dear Colleagues

We are happy to inform you that a UGC and APSCHE sponsored two day National Conference is being Organized by the Department of Zoology, UCS, Osmania University, Hyderabad on **27-28th February 2018**. The Organizing Committee is cordially inviting you and your colleagues, scientists, Research Scholars and Post- Graduate students to contribute Research papers and participate in the National Conference and make it a grand success.

About the National Conference

Owing to population growth, poor levels of hygiene, and increasing urban poverty, the urban environment in many developing countries is rapidly deteriorating. Densely packed housing in shanty towns or slums and inadequate drinking-water supplies, garbage collection services, and surface-water drainage systems combine to create favorable habitats for the proliferation of vectors and reservoirs of communicable diseases. As a consequence, vector-borne diseases such as **malaria, lymphatic filariasis, chicken guinea and dengue** are becoming major public health problems associated with rapid urbanization in India. The problems in controlling these diseases and eliminating vectors and pests can be resolved by decision-makers and urban planners by moving away from the concept of "blanket" applications of pesticides towards integrated approaches. Sound environmental management practices and community education and participation very much needed.

Insects are major vectors of plant and animal disease, and bacterial Phyto pathogens are often disseminated by flies. Flies have often been thought to be involved in the transmission of animal and plant diseases. They live on decaying media, enriched in microorganisms, and are ideal vectors for microbial dissemination through food contamination because of their close association with animal or plant communities. Although the potential hazard of flies towards humans is generally accepted, little is known about the interactions between bacteria and potential fly vectors.

Malaria and Encephalitis are the two most serious human diseases transmitted by rice land mosquitoes. The integrated pest management (IPM) strategy for mosquito control, also known as integrated vector control (IVC) is an ecologically based approach that may involve several complementary interventions used in combination or singly. Environmental management, and chemical, biological and mechanical control comprises the elements of IVC proposed for use in or near rice land habitats. Biological control agents that have been used successfully in rice fields include several species of larvivorous fish, mermithid nematodes, fungus and bacteria. The systemized approach by identifying and defining the issues of water pollution linked with the water usage and discharges from the different sources. The nature is evolved with ecological processes in place to take care of wastes from human activities. The caring capacity of the ecosystem should be the major concern while discharging wastes into the environment and eco-technologies should compliment to establish technological interventions for waste water treatment. Environmental pollution is a major issue for mankind all over the world and its control and regulation is key to

sustainable development. Further, there is a vast scope to innovate ideas in the expanding field of technology innovation and improvement. Ecosystem management needs to recognize the diversity of social and cultural factors affecting natural resource use. Similarly, there is a need for flexibility in policy making and implementation.

Thrust Areas

- Insect vector control methods and Parasitology.
- Conserve and safe guard measures of fresh water bodies and biodiversity.
- Aquatic Biology, Aquatic pollution and waste water treatment.
- Agricultural Entomology, Sericulture and IPM.
- Agricultural biotechnology, Bio fuel energy production.
- Emerging issues in Human diseases and Health care Management.

About the Institution

Osmania University, is a public state university established in 1918, is the seventh oldest in India, the third oldest in south India and the first to be established in the erstwhile princely state of Hyderabad. With a sprawling campus of nearly 1600 acres and buildings of majestic beauty and architectural splendor, Osmania University, is one of the largest higher education system in India. It is a home to nearly 300,000 students pursuing their higher studies in its campus, constituent. Affiliated Colleges and District Centres. its faculty and staff number nearly 5000. Osmania University is home to rich diversity of about 4500 international students from over 80 countries. The university has been conferred the covered status of University with Potential for Excellence (UPE) by the UGC in the year 2012 making it one of the top ten Universities in the Country. This aptly sums up the spirit and essence of Osmania University - the symbol of lifelong learning.

About the Department

The Department of Zoology came in to existence in 1924 with the introduction of teaching of Zoology in Intermediate Course in the then Biology Department. In the subsequent eight decades of growth and expansion, the Department has diversified teaching and research to suit both recent advances and needs of the regional populace. Strong research sections emerged, in addition to the established teaching line, in the last few decades through funding from UGC, DBT, DST, MoEF, CSIR, ICMR, ICAR, DoAE, SERB& DRDO.

Today significant research contributions are being made in biochemistry and physiology of parasites, cell and molecular biology, immunology, neurobiology, fisheries, animal models, biodiversity studies, classical and molecular taxonomy, and DNA barcoding. This complements the studies on vector biology, insect pest management, phytonematology, effect of stress on physiological functions, use of botanicals as ameliorative agents, biopesticides, taxonomy of vertebrates and biodiversity inventorisation and conservation. In recognition of the work done by the Faculty, the department is recognized as potential center for conducting investigations in the area of fluorosis, diabetes-related neuropathies, molecular taxonomy and barcoding, and as a training center for challenges related to tropical diseases.

It is also training center for integrated pest management and formulation of bio-pesticides. It is associated with national and international institutions and universities for formulating biodiversity action plans and wildlife conservation activities.

The faculties of this department are full-fledged members of international institutions like International Union for Conservation of Nature (IUCN) and United Nation's Convention on Biological Diversity (UN-CBD). The department is associated in collaborative research work with various departments of Government of Andhra Pradesh (like, Forest & Wildlife, Fisheries, Pollution Control, etc.); Andhra Pradesh State Biodiversity Board and also with MNJ, Yashoda Hospitals and Global Hospitals; Zoological Survey of India; National Biodiversity Authority, Government of India and many industries associated with biotechnology. In the recently organized Eleventh Conference of Parties of the United Nations Convention on Biological Diversity (COP11 UN-CBD), the Department has participated and contributed for the production of the first ever database of Biological Diversity of Andhra Pradesh and first Greater Hyderabad City Biodiversity Index in collaboration with the Greater Hyderabad Municipal Corporation and other stakeholders.

Abstract Submission

Participants are informed to submit their abstracts of research papers not more than 300 words and Full length paper in the areas related to the conference for oral and as well as poster presentation on A4 size paper with 12 font, Times New Roman and with double space on or before 30th January, 2018 in MS - word format by e-mail to dravraj@gmail.com or ucsouaiva@gmail.com. The abstract should have a Title, author(s) name, and affiliation, important findings of the work, minimum 3 key words and corresponding author's email address. The abstract will be peer reviewed by the technical committee and the acceptance will be communicated to the author on or before 5th February, 2018.

Registration

The interested participants are requested to submit filled in registration form along with an abstract to the organizing secretary on or before 5th February, 2015 with due registration fee. DD should be drawn in favour of the Principal, UCS, Osmania University payable at Hyderabad in any nationalized bank. Spot registrations are limited. Due to paucity of funds the participants are requested to have their own travel grants through their institutions for attending the conference. Out Station participants will be provide accommodation in the Guest House/ Hotels at their own cost.

Registration Fee

For Faculty and Research Scholars - ₹.800/-
For PG Students - ₹.400/-

Important Dates

Last date of abstract submission : On or before 30th January, 2018
Acceptance of abstracts : On or before 5th February, 2018
Conference dates : 27th & 28th February, 2018

