



ABOUT THIRUVANANTHAPURAM

Thiruvananthapuram (Trivandrum), the capital of the Indian state of Kerala, is located on the west coast of India near the extreme south of the mainland. A major academic and science and technology hub of Kerala, the city is referred to by Mahatma Gandhi as the 'Evergreen City of India'. The City gets its name from the Malayalam word thiru-anantha-puram meaning the 'City of Lord Ananta'. The name derives from the deity of the Sri Padmanabhaswamy Temple (the richest temple in the World) at the centre of the city. Anantha is the serpent Shesha on whom Padmanabhan or Vishnu reclines. The city has a climate that borders between a tropical savanna climate and a tropical monsoon climate. As a result it does not experience distinct seasons. The mean maximum temperature 34 °C and the mean minimum temperature is 21 °C.

Thiruvananthapuram, the capital city of Kerala State (known as 'God's Own Country'), is also a tourist hot-spot for both Domestic and International tourists. There are many tourist destinations in the city including Kovalam beach, Sanghumukham Beach, Napier Museum and Zoo, Agasthyarkoodam peak, Neyyar Wild Life Sanctuary and Neyyar Dam, Kuthiramalika Palace, Sree Padmanabha Swamy Temple, Ponmudi, Poovar, Varkala Cliffs and Beaches and many others.

Thiruvananthapuram's International Airport has direct flights from the Middle East, Singapore, Maldives and Sri Lanka. This is one of the cities in Kerala where one can visit beaches, backwaters and mountains of the Western Ghats in the same day and the city is well connected by road, rail and flight to other tourist destinations of Kerala.

INTERNATIONAL TRAINING WORKSHOP ON TAXONOMY OF CRUSTACEA (ITWOTAC 2016)

THIRUVANANTHAPURAM
INDIA
20-23 SEPTEMBER 2016



Organised by
DEPARTMENT OF AQUATIC BIOLOGY & FISHERIES
UNIVERSITY OF KERALA
Thiruvananthapuram – 695 581, Kerala, India

Co-organisers

Kerala University of Fisheries and Ocean Studies (KUFOS), Kochi, India
Department of Marine Biology, Microbiology and Biochemistry, School of Marine Sciences
Cochin University of Science and Technology, Kerala, India
Indian Science Congress Association, Cochin Chapter, India
Zoo Outreach Organisation, Coimbatore, India
South Asian Invertebrate Specialist Group

In collaboration with

Lee Kong Chian Natural History Museum, Singapore
Department of Biological Sciences,
National University of Singapore
Museum of Natural History, Oxford University, U.K.





ABOUT THE WORKSHOP

Crustaceans (Phylum Arthropoda; subphylum Crustacea) form the most studied and biodiverse group of arthropods aside from insects, and include commercially and ecologically valuable crabs, lobsters and shrimps. Most of the 67,000 described crustacean species are marine, but there are many freshwater forms. They represent one of biodiverse group.

Brachyuran crabs, which originated in the Jurassic, have undergone extreme morphological diversity and as such present numerous challenges in taxonomy. The diversity of crustaceans in deep waters off Indian coast, intertidal habitats and freshwater ecosystems in the Western Ghats Biodiversity Hotspot are not fully understood.

The goal of the taxonomy workshop is to impart to participants the necessary skills and knowledge to begin to address the systematics and biology of decapod crustaceans, with special focus on marine and freshwater brachyuran crabs and caridean shrimps. The proposed workshop will offer hands-on laboratory sessions where participants will learn to prepare collected decapod crustacean specimens for identification, including anatomical examination. Field trips will also be conducted during the course of the workshop to complement the laboratory work and to generate discussions on crab ecology and habitats.

This course seeks to give the participant the necessary tools to pursue taxonomy of decapod crustaceans. Daily activities will include morning lectures, lab work, and discussion sections or talks. The workshop will also publish a manual on taxonomy of decapod crustaceans.

WHO CAN PARTICIPATE IN THE WORKSHOP?

It is strongly emphasized that only sincere and dedicated persons who have genuine interest in this area of research need apply. Research scholars, young amateur researchers, and scientists, with a strong desire to carry out research work on taxonomy of crabs and shrimps, are welcome to attend the training Workshop.

HOW TO APPLY?

Those who wish to apply may send their application along with detailed biodata and justification for applying for the workshop. Preference will be given to those who are in the initial phase of working on crustaceans and youngsters who wish to pursue their studies on this group. Employed candidates and research scholars need to submit the application through the concerned Head of the Department/Institution. The researchers/scientists are requested to produce a letter of recommendation from their supervising teacher/head of the Department.

The number of participants is limited to 20, and the selection will be based on the justification for participation provided.

PARTICIPANT'S FEE

Scientists and faculty: Rs. 8000*
 Research scholars and students: Rs. 5000*
 International participants: US\$ 250*
 *Course fee includes teaching materials, food and local field visits for 5 days

Last date for submission of application: 10 August 2016

COURSE DIRECTOR

Dr Peter K. L. Ng

Head, Lee Kong Chian Natural History Museum, Faculty of Science, National University of Singapore



Dr Peter NG is a global authority on crustacean taxonomy and has broad interests in brachyuran systematics, Indo-Pacific biogeography and marine biodiversity, and Southeast Asian conservation biology. He serves as member of the International Commission for Zoological Nomenclature and Group of Taxonomic Experts (FAO), and as expert in various international assignments of UNEP, World Bank, GEF, DIVERSITAS IWP Council, ASEAN-ARBC, UNESCO etc. He is an editorial board member of leading international journals including Journal of Natural History and Zoological Journal of the Linnean Society. Dr Peter Ng has published over 750 research articles and 210 books, chapters and other articles.

EXPERTS

Dr. Sammy De Grave

Head of Research, Oxford University Museum of Natural History, Oxford, United Kingdom



The research of Dr Sammy De Grave is concerned with the systematics of caridean shrimps (Crustacea: Decapoda) in the broadest sense, ranging from alpha-level species taxonomy through to family level systematics, with forays into biogeography, faunistics, comparative morphology, ecology and conservation. Field work plays a prominent role, with recent expeditions in many locales in the Caribbean as well as the Indo-Pacific. IUCN Red List Authority Coordinator for freshwater shrimps, Dr. De Grave has published extensively on taxonomy of caridean shrimps, and is one of the global experts in this area.

Dr. Darren Yeo Chong Jinn

Assistant Professor and Assistant Deputy Head of Dept. (Operations), Department of Biological Science National University of Singapore



Dr Darren CJ YEO is also a Research Affiliate of the Tropical Marine Science Institute (TMSI). He is involved in a range of research projects including systematics and taxonomy, biogeography, and conservation of freshwater decapod crustaceans. Dr. Yeo has contributed to various books on Singapore biodiversity and serves as IUCN Red List Authority Coordinator for freshwater crabs and member, International Advisory Board, Crustacean Research.

Dr. K V Jayachandran

Director of Research, Kerala University of Fisheries and Ocean Studies, Kochi, India



Dr Jayachandran is a taxonomist of eminence of decapod crustaceans especially in the area of freshwater prawns for the last three decades. Dr Jayachandran is the winner of the NAGA Award for his publication "Palaemonid Prawns: Biodiversity, Taxonomy, Biology and Management". He has involved in a range of research projects on systematics, taxonomy, molecular taxonomy of crustaceans. Prof. Jayachandran is the invited collaborator for All India Co-ordinated Project on Taxonomy – Crustacea (AICOPTAX – Crustacea), Ministry of Environment and Forest, Govt. of India.

ITWOTAC 2016 TEAM

PATRONS

Prof. P.K. Radhakrishnan, Vice Chancellor, University of Kerala
Prof. A. Ramachandran, Vice Chancellor, Kerala University of Fisheries and Ocean Studies
Dr. (Ms.) B. Meenakumari, Chairperson, National Biodiversity Authority
Dr. N. Veeramanikandan, Pro Vice Chancellor, University of Kerala
Prof. K. Padmakumar, Pro Vice Chancellor, University of Kerala

CHAIRMAN

Dr. K.V. Jayachandran, Director of Research, Kerala University of Fisheries and Ocean Studies, Kochi, India

CO-CHAIR

Dr. Sanjay Molur, Zoo Outreach Organisation, India

ORGANISING SECRETARY

Dr. A. Biju Kumar
 Head, Dept. of Aquatic Biology & Fisheries, University of Kerala

ADVISORS

Dr. P. Radhamony, Member, Syndicate, University of Kerala
Dr. K. Venkataraman, Former Director, Zoological Survey of India
Dr. C. Sankarankutty, Former Scientist, CMFRI
Dr. M. Kathirvel, Former Principal Scientist of CIBA, Chennai
Dr. L.N. Santhakumaran, Former Scientist, Institute of Wood Science & Technology, Bangalore
Dr. S. Ajmal Khan, Emeritus Professor, Centre of Advanced Study in Marine Biology, Annamalai University, Tamil Nadu
Dr. E.V. Radhakrishnan, Emeritus Scientist, CMFRI, Cochin
Dr. Dev Roy M.K., Former Scientist, Zoological Survey of India
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Dr. Sobhanakumar and **Dr. C.S. Purushothaman**, DABF, UoK

ORGANISING COMMITTEE

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Dr. M. Harikrishnan, Associate Professor, School of Industrial Fisheries, CUSAT
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Dr. Akhila S. Nair, DABF, UoK
Rajesh L., Apsara S. Krishnan, Smrithy Raj, Ravinesh R. and Aprehgi K.P., DABF, UoK

THE APPLICATION ALONG WITH BIO-DATA MAY BE SEND TO

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