

National Workshop

on

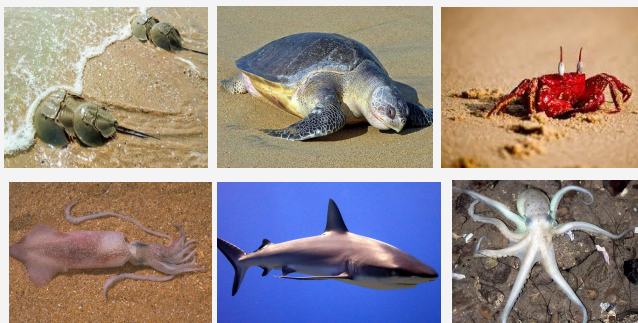
Interdisciplinary Approach for Conservation of Marine Faunal Resources, with special reference to Indian Horseshoe Crabs

Dt: 12th & 13th March 2025

The National Workshop on "Conservation of Marine Faunal Resources with special reference to Indian Horseshoe Crabs" is dedicated to the preservation and study of these ancient and ecologically significant Marine species. Indian horseshoe crabs also known as living fossils, offer valuable insights into evolutionary biology and marine ecology.

This workshop has been planned to gather scientists, conservationists, policymakers, and students to discuss challenges, share research, and develop strategies for conserving horseshoe crabs and their associated organism as well as their ecosystems. Through lectures, interactive sessions, and field activities, participants will collaborate on ensuring the survival of these remarkable creatures and the biodiversity they support.

Join us in protecting Indian horseshoe crabs and other marine animals for fostering a sustainable future for them and their habitats.



CONVENOR

Prof. Bisnu Prasad Dash

ORGANIZING SECRETARY

Dr. Niladri Bhusan Kar

CO-ORGANIZING SECRETARY

Dr. Manojit Bhattacharya

Organized by:

P.G Department of Zoology
and

Center for Research and Conservation of Indian Horseshoe Crabs (CRCIHSC),
Fakir Mohan University, Balasore

Background

Fakir Mohan University, alongside other national institutions such as the National Institute of Oceanography, Goa, the Zoological Survey of India, Kolkata, MoEFCC have conducted several research works on the distribution, habitat mapping, breeding biology, artificial rearing, and population restoration of different marine fauna in India. However a sustainable approaches for conservation of these organism are yet to be addressed.

Two species, mainly *Tachypleus gigas* and *Carcinascorpius rotundicauda*, and different other marine creatures are known to inhabit in India's coastal waters. Historically, thousands of marine animals have been reported along the beaches of Odisha. But recent observations indicate a decline in their population.

To address these issues, the Center for Research and Conservation of Indian Horseshoe Crabs (CRCIHSC) at the PG Department of Zoology, in collaboration with the Department of Biosciences and Biotechnology at Fakir Mohan University, is organizing a National Workshop on the "Conservation of Indian Horseshoe Crabs and Associated Organisms" during March 12th-13th, 2025 .

RESOURCE PERSON

1. Dr. Dhriti Banarjee, Director, ZSI, Kolkata, India
2. Shri Prem Kumar Jha, IFS, PCCF, Odisha Wildlife Division
3. Prof. Sushil Kumar Dutta, Emeritus Professor, Don Bosco University, Assam
4. Dr. Manoj V. Nair, CCF Wildlife, Govt. of Odisha
5. Mr. Samyak Samantra, DCF wildlife, Govt. of Odisha
6. Dr. Punyashloka Bhadury, Professor, Biological Science Division, Indian Institute of Science Education and Research (IISER), Kolkata
7. Dr. Basudev Tripathy, Scientist F, WRC- ZSI Pune
8. Dr. Pratyush P. Mohapatra, Scientist E, ZSI, Kolkata, West Bengal
9. Dr. Prasad Chandra Tudu, Scientist-D, MARC-ZSI, Digha
10. Dr. Muntaz Khan, Assistant Professor, Department of Zoology, Maa Manikeswari University, Bhawanipatna.
11. Dr. Rajesh Jha, Quality Control, Balasore Alloy.
12. Mr. Aditya Padhi, Oripol Industries Limited
13. Mr. Muralidharan Manohara Krishnan, Lead-Marine species, WWF
14. Prof. Bisnu Prasad Dash, Adjunct Professor, P.G Dept. Of Zoology, FM University.
15. Dr. Bharat Bhusan Pattnaik, Head, Dept. of Bioscience and Biotechnology, Deputy Director, CRCIHSC
16. Prof. Bharatibala Patanaik, Head, P.G. Dept. Of Journalism and Mass Communication, FM University.
17. Dr. Sunil Kumar Padhi, Head, P.G. Dept. Social Science, FM University
18. Dr. Rosalin Das, Head, P.G. Dept. of Geology, FM University
19. Dr. Nihar Ranjan Rout, Head, P.G. Dept. of Geography, FM University
20. Dr. Gobind Chandra Biswal, Retired Reader and HOD, Sidheswar Mahavidyala, Amarda Road, Balasore

ORGANIZING COMMITTEE

Prof. Santosh Kumar Tripathy

Chief Patron

Vice Chancellor, Fakir Mohan University

Prof. Bhaskar Behera

Patron

Coordinator of Dept. of Zoology

Chairman, Post Graduate Council

Prof. Bisnu Prasad Dash

Convenor

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Dr. Bharat Bhusan Patnaik

Associate Professor

Head of The Dept. of Bioscience and Biotechnology

Deputy Director, CRCIHSC

ORGANIZING COMMITTEE MEMBERS

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Miss Swati Rout,

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Mr. Soumyaranjan Dash

Project Fellow, CRCIHSC

Miss Ananya Devasmita Patra

Research Intern, CRCIHSC

Miss Subhadra Kar

Research Intern, CRCIHSC

ABOUT THE UNIVERSITY

The Fakir Mohan University, Vyasa Vihar, Balasore was established by the Government of Odisha, under Section 32 of the Odisha Universities Act, 1989 (Act 5 of 1989) and it was notified vide the Government's Notification No. 973, dated 3rd July 1999. It has been duly recognized by the UGC under Section 2(f) of the UGC Act vide Notification No. F-9-1/2000 (CPP-I), dated 11th February 2000 as well as under Section 12(B), vide UGC letter no. F.9-1/2000 (CPP-I) dated 23rd December 2005. The University has also been accredited by the Association of Indian Universities (AIU) since 2000 and is also a member of the Association of Commonwealth Universities (ACU), UK. At present it is functioning in two campuses: The Old Campus at Janaganj, beside the National Highway near Remuna Golei and the New Campus at Nuapadhi, in and around Balasore town.

ABOUT CRCIHSC

In 2024, Fakir Mohan University in Balasore established a dedicated Center for Research and Conservation of Indian Horseshoe Crab, underscoring its commitment to the preservation and study of this ancient and ecologically significant species. This center aims to advance scientific research on the Indian horseshoe crabs through comprehensive studies on its biology, ecology, and conservation needs. By fostering collaboration among researchers, conservationists and students, the center aspires to develop effective strategies for the protection of horseshoe crabs and their habitats. Additionally, it serves as an educational hub raising awareness about the importance of these creatures in marine ecosystems and their contributions to biomedical research. Through its initiatives, the center strives to ensure the sustainable conservation of Indian horseshoe crabs for future generations.

ABOUT DEPARTMENT OF ZOOLOGY

The P.G. Department of Zoology, since its very inception in the year, 2018 has focused on its advanced course curricula in respect of different departmental activities and programme (teaching research extension) giving due importance on the involvement of the nature and natural products, peoples of the surroundings and ecological changes of the prevailing ecosystem. So far the department has produced numbers of successful students who are placed in different Institutes/University, Govt. sectors in National and International levels. Department has MoU with several National/international organization (CIFA, CIFRI, ZSI, RMRC) for R & D purposes. The main thrust of the department is on biodiversity and its utilization through bio-prospecting, wildlife technology, computational biology and bio assessment from molecular to ecosystem level.



WORKSHOP MODULE

1. Basic Biology and Introduction Native Faunal Resources
2. Morphology and Taxonomy
3. Biomedical and Biopotential perspets
4. Use of advanced Bioinformatics tool in conservation and resource mapping.
5. Different characteristics features and distribution of Indian Horseshoe crabs.
6. Genetic diversity & Evolutionary significance of Indian Horseshoe crabs
7. Balancing Conservation and Research
8. Commercialization perspets from native species.
9. Host-Microbe Interaction.
10. Field study:
 - a) Handling of Marine Species
 - b) Association of other organism with Indian Horseshoe crabs
 - c) Micro and Macro Faunal diversity related to Horseshoe crabs

PLACES TO VISIT



Chandipur Beach



Dublagadi sea Beach



Khirachora Gopinath



Panchalingeswar Temple

THEMES

1. Marine Faunal Conservation and Management

Exploring conservation strategies, marine protected areas (MPAs), and sustainable management to combat habitat destruction, pollution, and overexploitation.

2. Ecology and Biology of Indian Horseshoe Crabs

Understanding their habitat, breeding patterns, spawning behavior, and ecological role in the marine food web.

3. Threats to Horseshoe Crab Conservation

Addressing habitat loss, pollution, climate change, and overexploitation for biomedical use, along with mitigation strategies.

4. Sustainable Fisheries and Community Role

Highlighting sustainable fishing practices, community-driven conservation, and the socio-economic significance of marine species.

5. Research, Conservation, and Technological Advancements

Exploring GIS, remote sensing, genetic studies, and tagging techniques in marine biodiversity conservation.

6. Biomedical Importance and Ethical Concerns

Discussing horseshoe crabs' biomedical significance, LAL production, Chitosan, ethical concerns, and sustainable alternatives.

7. Climate Change and Marine Ecosystems

Examining the impact of rising sea levels, ocean acidification, and temperature changes on marine biodiversity.

8. Policy, Legislation, and Global Collaboration

Focusing on national policies, international treaties, and collaborative efforts for marine conservation.

9. Role of Corporates, Print, and Electronic Media in Conservation

Exploring CSR initiatives, industry support, eco-friendly practices, and media's role in conservation awareness.

10. An Interdisciplinary Approach to Marine Conservation

Highlighting the role of journalism, social sciences, geography, and geology in habitat assessment and policy-making.

ELIGIBILITY

- Academicians from any field/Branch
- Researchers from any field/Branch
- Students from any field/Branch
- Government Organizations and Non Government Organizations

MODE

The workshop will be conducted in offline and online as well.

IMPORTANT DATES

- Online Registration – 1st March 2025 to 12th March 2025
- Spot Registration 12th March 2025 (Form will be provided at the venue)
- Date of Workshop - 12th & 13th March 2024

VENUE:

- P.G Council Hall, Fakir Mohan University, Balasore, Odisha-75620, India.
- Final Schedule of the event shall be communicated two days before the event.

REGISTRATION AND ABSTRACTS GUIDELINES

All the participants have to register formally via our online form providing all necessary details, including personal information, and academic/professional background. Upon registration, confirmation will be sent via email.

Abstracts for oral and poster presentations should be aligned with the thematic area of workshop and need to be submitted in given email [hscworkshop2024@gmail.com], or attached in registration link including the title, authors, affiliations, and a brief description in 300 words on or before 12th March 2025.

For any queries, please contact the given mail ID or Phone number given in the brochure. We encourage early registration to secure your participation in this crucial conservation initiative.

- Note: No TA/DA will be paid to the Participants.
- Registration link: <https://forms.gle/39DGVjWrsJw9BZWW7>
- Registration Fees
 - a. Student and Research Scholar 500₹/-
 - b. Academician/scientist/Researchers 1000₹/-
 - c. Government & Non Government Organizations 1000₹/-

CONTACT INFORMATION

For any queries, please contact

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