

ONE DAY
NATIONAL SEMINAR
ON

Issues Pertaining To Sustainable Management of Water Quality
29th March, 2019

Organised by
Environmental Science & Management Course
Department of Zoology, Patna University, Patna-800 005
In Collaboration with
Patna Science College, Patna University, Patna
Registration Form

PERSONAL DETAILS

Name:
Designation:
Institution:
Contact No.:
Email ID:
Title of the Presentation:
Mode of Presentation: Oral/Poster/Participation Only (Poster size: 3 ft x 2 ft)
Whether applying for Poster Competition: Yes/No
Whether applying for Young Scientist Award: Yes/No
(If Yes, Mention Date of Birth (Documentary Evidences Required))
Registration fee Paid: Rs.
Mode of Payment:
RTGS: Name of A/c Holder : PU Zoology Seminar
A/c no. : 50437134083 Bank Name : Allahabad Bank
Branch : Patna University IFSC : ALLA0210002
NOTE : Receipt of RTGS must be produced at the time of registration on 29.03.2018
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Date:
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Information Brochure

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PATNA UNIVERSITY

The seventh oldest University in the Indian subcontinent and the first in Bihar, Patna University was founded by the Act of legislature on 1st October, 1917 to cater to the higher education needs of Bihar, Orissa and Nepal. In 2017, it has celebrated its hundred years of excellence. It has 31 postgraduate departments in the faculties of Science, Social Science, Humanities, Education, Commerce, Law and 10 constituents colleges. The University is in the process of revitalizing its potential for excellence to provide students, researchers and teachers opportunities to excel in their disciplines. It is taking path breaking initiative in higher education with introduction of innovative and modern curricula, establishing partnerships with Indian and off-shores universities to enhance scholarship and sharing of technology. The development of a state is invariably linked to the growth of its education intellectual quotient and creativity. Bihar's tryst with its intellectual destiny has commenced in earnest and the contribution of Patna University and the goals that it has set for itself is foundational to that end.

POST GRADUATE DEPARTMENT OF ZOOLOGY, PATNA UNIVERSITY

The Post Graduate Department of Zoology, Patna University is situated in the Patna Science College campus on the bank of the holy river Ganga. The department was started in Patna Science College in August, 1948 and got the status of University Department in January, 1952. This department can be called the parent department for all the departments of Zoology in the state of undivided Bihar. It has been the pioneer in nurturing the study of Zoology in Bihar and in putting the wheels of Zoological Research in motion. During 65 years of service to education in Bihar, the department has produced overwhelming number of academicians, scientists, doctors, bureaucrats. Currently, faculties of the Department are engaged in research activities in several areas including Ecotoxicology, Genetic toxicology, Freshwater Ecology, Biodiversity and Biological Conservation, Fish and Fisheries, Insect Biology and Molecular Biology. The Department of Zoology has brought several laurels for the commendable work on the Ganges River Dolphin which is given the status of National Aquatic Animal by the Government of India by the efforts and restless campaign of Padamshri Prof. (Dr.) R. K. Sinha. In 2006 the Department was selected for financial support under FIST Program of the Department of Science and Technology, Government of India. In 2012, the Department became the part of Inter-disciplinary Programme in life sciences (IPLS) sponsored by Department of Biotechnology, Government of India.

ENVIRONMENTAL SCIENCE & MANAGEMENT COURSE

In, 2007, M.Sc. Environmental & Management course was started in the Department as a self-financing course with intake of 20 students every year. Since then many students of M.Sc. Environment Science and Management have qualified UGC-NET/JRF and are engaged in research activities in various prestigious institutions. Some students are working for various companies and industries as Scientist, Environmental officer, Water quality inspector, Environmental Manager, Health inspector etc. Semester system was implemented in the academic session 2012 – 2013. It considered a step further in higher education. It inhibit absenteeism and compel students to complete assignments and projects given by lecture to qualify for examinations. Choice Based Credit System (CBCS) was introduced in 2018 to look into the needs of the students so as to keep up-to-date with development of higher education in India.

PATNA SCIENCE COLLEGE

Patna Science College, a constituent unit of Patna University, is one of the oldest Science Colleges in India. Initially started in 1927, it was established on November 15th, 1928 by the then Viceroy, Lord Irwin. Since its inception, the college has been recognised as a premier institute of higher learning in science stream in India. It offers under-graduate courses in Physics, Chemistry, Botany, Zoology, Geology, Mathematics and Statistics, besides a number of vocational courses such as Biotechnology, Environmental Science and Computer applications.

ABOUT THE CITY

The national seminar is being held in Patna, the capital city of the state Bihar. It is one of the oldest continuously inhabited places in the world. Ancient Patna, known as Pataliputra, was the capital of the Magadha Empire, and had been a seat of learning, knowledge and fine arts. Patna has a humid subtropical climate under the Köppen climate classification. Weather at Patna in March is very pleasant and the temperature is expected to be between 15 - 33°C. The city of Patna is well connected with road, rail and air from every part of country.

THEME OF THE SEMINAR

Water is essence of life. Throughout the world, demographic, economic, and technological developments have accelerated the undesirable changes in our living environment. The resulting impact of this is global climate change, change in precipitation pattern, and altering the quantity and quality of our freshwater resources. Freshwater is essential for life, not only to survive, but indeed for our economic well being as well. There are no substitutes for it and should be managed in a holistic and sustainable way. It is at the core of sustainable development and is critical for socio-economic development, healthy ecosystems and for human survival itself. Water can pose a serious challenge to sustainable development but if managed efficiently and equitably, it can play a key role in strengthening the resilience of social, economic and environmental systems in the light of rapid and unpredictable changes. Perhaps the most important challenge to sustainable development to have arisen in the last few decades is the unfolding global ecological crisis that is becoming a barrier to further human development. From an ecological perspective, the sustainable developmental efforts have not been successful. Global environmental degradation has reached a critical level with major aquatic ecosystems approaching thresholds that could trigger massive collapse. With the collective efforts of policy makers and stakeholders, action need to be taken to regular monitor the water quality of freshwater ecosystem, including facilitating integrated water resources management processes and the implementation thereof, and providing guidelines to protect and restore freshwater ecosystems with a view to sustaining their ecosystem services for generations to come.

OBJECTIVES

The aim of this national seminar is to develop in-depth knowledge and problem solving skills on the issues related to sustainable management of water and bringing together the thoughts of Academicians, Scientists, Researchers, Health Professionals, Legal Professionals, NGOs, Government/ Private organisations and Experts in the field as well as students from various parts of India with the following important objectives:

- To analyse present status of water bodies (regional & national) in context to, their vigority, encroachment threat and implication of conservation strategies.
- To review the current status of aquatic biomonitoring and its assessment strategies.
- To evaluate the effects of aquatic contaminants for risk assessment and hazard identification.
- To examine the causative factors for water pollution and aquatic degradation.
- To emphasize and promote recent advancement on environment and to develop putative mitigation strategies.
- To discuss present scenario of water related issues and their mitigation.

SUB-THEMES

- Water quality monitoring, assessment & its mitigation
- Sustainable management of aquatic ecosystems
- Aquatic chemistry & toxicology
- Impact of mining and industrialization on water
- Natural resources management for sustainable development
- Impact of global warming & climate change on aquatic ecosystems

- Aquatic stress management
- Socio-economic and other related issues to water
- Aquatic biotechnology, microbiology, bio informatics and nanotechnology
- EIA, Environmental Auditing & Life Cycle Assessment
- Water conservation prioritization using geospatial technology
- Taxonomy & biodiversity
- Rain water harvesting
- Environmental policies, laws and legislations related to conservation of water bodies.

CALL FOR ABSTRACTS AND PAPERS

Abstracts for oral/poster presentation are invited through online submission (**Email id: puseminaresm19@gmail.com**) on any of the sub-themes mentioned above along with other relevant water related issues. The interested participants are requested to fill up the registration form and send the same along with the submission of abstract. The abstract should be prepared (250-300 words) using MS Word, Times New Roman for English with font size 12 and line spacing of 1.5. The footnotes, if any, should be in Times New Roman, font size 10 with spacing of 1.0. The last date of abstract submission is March 25, 2019. No abstract will be considered after 25th March, 2019.

AWARDS

Young Scientists Award (below 35 years) will be given for best oral presentation to one male and one female participants. Those who apply for best oral presentation award should specify in their registration form as "Applying for Young Scientist Award". Best three poster presentations will also be awarded.

REGISTRATION FEE

Category	Upto 25.03.2019	On spot
Scientists and Teachers	₹ 1,000	₹ 1,200
Research Scholars (Non Ph. D.)	₹ 750	₹ 950
UG and PG Students	₹ 500	₹ 700
NGOs	₹ 1,500	₹ 1,700

Registration fee will be accepted either as Cash or bank Demand Draft in favour of the "PU Zoology Seminar" payable at Patna. Participants may deposit/online transfer the registration fee at Allahabad Bank, Patna University Branch, Patna (IFSC Code: ALLA0210002), Account Number: 50437134083, however, have to produce the original receipt at the time of registration on 29.03.2019.

FOR ADVERTISEMENT IN ABSTRACT CUM SOUVENIR BOOK

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TRAVEL AND ACCOMMODATION

The organisation will bear the travel cost of invited speakers only, maximum by AC-2 tier train fare. Accommodation for a limited number of participants may be arranged in Patna University guest house on payment basis. Accommodations in hotels may be arranged on request with advanced payment. Participants are free to make their own accommodation arrangements.

Contact Persons:

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