

Two Day National Seminar
on
**SUSTAINABLE MANAGEMENT OF
NATURAL RESOURCES FOR
FOOD SECURITY AND
LIVELIHOOD PROMOTION UNDER
CLIMATE CHANGE SCENARIO**

29th to 30th March, 2024



Organised by:

Department of Biological Sciences (Agriculture)

MIDNAPORE CITY COLLEGE

Venue:



Dr. A.P.J. Abdul Kalam Memorial Hall

MIDNAPORE CITY COLLEGE

Bhadutala, Midnapore, Paschim Medinipur, Pin- 721129, West Bengal, India

www.mcconline.org.in

BACKGROUND

In India, the sustainable management of natural resources stands as a critical pillar for ensuring food security and promoting livelihoods, especially in the context of a rapidly changing climate. With agriculture being a primary source of income for a significant portion of the population, preserving the integrity of land, water, and forests is paramount. Sustainable agricultural practices, such as organic farming, conservation tillage, and integrated pest management, are being increasingly adopted to enhance productivity while minimizing environmental degradation. Water scarcity poses a significant challenge, necessitating efficient irrigation systems, rainwater harvesting, and watershed management programs to ensure reliable access to water for agricultural purposes. Furthermore, reforestation efforts and the protection of biodiversity-rich areas are essential for maintaining ecosystem services critical for agriculture, such as pollination and soil fertility. India is witnessing the adverse impacts of climate change, including erratic weather patterns, extreme events, and shifting agricultural zones. In response, climate-smart agricultural practices are being promoted, including the cultivation of drought-tolerant crops, adoption of climate-resilient livestock breeds, and the use of weather-resistant seeds. Embracing agroforestry techniques not only enhances carbon sequestration but also provides additional sources of income for farmers while improving soil health and water retention. Moreover, promoting sustainable fisheries and aquaculture practices helps preserve marine ecosystems while providing livelihood opportunities for coastal communities.

Ensuring food security and livelihood promotion under a changing climate requires a multi-faceted approach that integrates traditional knowledge with modern technology and policy interventions. Empowering smallholder farmers through access to information, credit, and markets enables them to adopt sustainable practices and adapt to climate variability. Collaborative efforts between government agencies, research institutions, civil society organizations, and local communities are essential for developing and implementing robust strategies for the sustainable management of natural resources, ultimately safeguarding food security and livelihoods for present and future generations in India. Considering these circumstances for preparation of a road map a National Seminar on **“Sustainable Management Of Natural Resources For Food Security And Livelihood Promotion Under Climate Change Scenario”** is going to be organized by Midnapore City College with the following objectives:

- To assess the present scenario and emerging trends of natural resource management, conservation of environment and biodiversity, sustainable livestock management, crop improvement, protection, post harvest management processing, marketing, supply chain management and export of horticultural crops across the country.
- To share innovative technological advancement in the field of biological sciences with special reference to agriculture for sustainable development and livelihood promotion.
- To make key recommendations for recent research and development on Indian agro-ecosystem considering food cum nutritional security and environmental safety.

SEMINAR THEMES

Theme I:

Role of flora-fauna and other natural resources in the dynamics of environmental system and their conservation.

Theme II:

Evolution of agricultural technologies, livestock farming in connection with sustainable development and climate resilient production system.

Theme III:

Nutritional security through quality planting material production, area expansion, processing and export promotion of horticultural crops

Theme IV:

Application of modern day biotechnology, microbiology and bioinformatics for sustainable use in industry and agro-ecosystem

Theme V:

Technological intervention for sustainable food production system and livelihood promotion – uses of engineering technology, nanotechnology, irradiation technology, computational technology and artificial intelligence

VENUE & DATE

MIDNAPORE CITY COLLEGE

Kuturiya, PO: Bhadutala, Salboni, Paschim Medinipur, West Bengal, Pin-721129.

29th to 30th March, 2024.

PARTICIPANTS

Academic and research professionals, students, officials, extension workers, industrialists, processors, policy makers, nursery men, growers, exporters & NGOs.

IMPORTANT DATES

Last date for submission of Abstract: 18.03.2024

Notification of Acceptance: 21.03.2024

Conference Date: 29th to 30th March, 2024

The abstracts received after 18th March, 2024 will not be considered for book of abstracts, however may be under consideration as poster presentation only.

CALL FOR PAPERS

Organizing committee invites abstracts and full length papers on different seminar themes. Abstracts within 250 words are to be submitted through e-mail (mccnatsem2024@gmail.com) as MS Word file in Times New Roman, 12 font, single spacing. Title should be bold, short, attractive, first alphabet of each word should be capital. Full length papers will be invited from the selected abstracts and should not exceed ten pages including title, authors, affiliation, abstract, key words, introduction (with objectives), materials and methods, results and discussion, conclusion, references and tables. Good quality review articles are also invited.

GUIDELINES OF POSTER PRESENTATION

Poster size will be strict 3ft. x 4 ft. (Width/Height).

PUBLICATION

Accepted abstracts will be published as book of abstracts cum souvenir of the seminar. Full papers of the selected abstracts may be published as book chapter in an edited book with ISBN number or in reputed peer reviewed journal following the terms and conditions.

AWARDS

'Best Paper Award' will be given for each theme.

REGISTRATION FEE

	Within 25.03.2024	Spot Registration
Students (UG/PG)	Rs. 500.00	Rs. 600.00
Research Scholar	Rs. 750.00	Rs. 1000.00
Teachers/ Scientists/ Delegates	Rs. 1000.00	Rs. 1500.00

REGISTRATION AND MODE OF PAYMENT

Registration Form will be available from our college website:

www.mcconline.org.in → Conference Registration

& Registration Fees will be paid in the Bank Account.

Bank Name : **Punjab National Bank**
Account No. : **0297050310154**
Branch Name : **Satbankura**
IFSC : **PUNB0029720**



ACCOMMODATION

Hotel accommodation will be available on first come first serve basis after receiving request. Tariff for different categories of hotels nearer to the venue vary from Rs.800 to Rs. 2000 per day.

ROUTE MAP

Distance of the venue from Midnapore Railway Station is 6 Km. The distance between Midnapore Central bus stand via Keranichati near Bhadutola is 5 km.

ORGANIZING COMMITTEE

Chief Patron:	Dr. Pradip Ghosh Founder Director.
Patron:	Dr. Sudipta Chakrabarti (Principal & Associate Professor) Dept. of Biological Sciences.
Co Patron:	Dr. Kuntal Ghosh (Vice-Principal & Assistant Professor) Dept. of Paramedical and Allied Health Sciences.
Convenor:	Dr. Anulina Manna (Assistant Professor of Agriculture) Dept. of Biological Sciences.
Organizing Secretary:	Dr. Tapan Das (Assistant Professor of Agriculture) Dept. of Biological Sciences.
Joint Organizing Secretary:	Mr. Pratonu Bandyopadhyay (Assistant Professor of Agriculture) Dept. of Biological Sciences. Mr. Sudip Bhattacharya (Assistant Professor of Agriculture) Dept. of Biological Sciences.
Treasurer:	Ms. Shreyosi Roy (Assistant Professor of Agriculture) Dept. of Biological Sciences. Mr. Abhishek Das (Assistant Registrar) Administrative Dept.
Technical & Publication:	Dr. Prahlad Deb (Assistant Professor of Horticulture and post harvest technology), Visva-Bharati. Dr. Shrabani Pradhan (Assistant Professor of Nutrition) Dept. of Paramedical & Allied Health Sciences. Dr. Sisir Ghorai (Assistant Professor of MHA) Dept. of Paramedical & Allied Health Sciences. Mr. Suman Mallick (Graphic Designer & Nodal Officer) Administrative Dept.
Registration Committee:	Mr. Subhas Patar (Assistant Professor of Agriculture) Dept. of Biological Sciences. Mr. Abir Choudhury (Assistant Professor of Agriculture) Dept. of Biological Sciences. Mr. Biswanath Sardar (Technical Assistant of Agriculture) Dept. of Biological Sciences.
Conveners for Refreshment and Cultural Programme:	Dr. Soumitra Pal (Assistant Professor of Botany) Dept. of Biological Sciences. Dr. Alokesh Roy (Assistant Professor of Botany) Dept. of Biological Sciences. Mr. Kamalendu De (Assistant Professor of Botany) Dept. of Biological Sciences. Mrs. Titli Panchali (Technical Assistant of Nutrition) Dept. of Paramedical & Allied Health Sciences. Mr. Surendra Patra (Technical Assistant of Botany) Dept. of Biological Sciences. Mr. Subha Mal (Office Attendant) Administrative Dept. Mr. Suman Dey (Office Attendant) Administrative Dept.

RESOURCE PERSONS



Prof. Dharani Dhar Patra

Former Vice-Chancellor, Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, Nadia, West Bengal.
Former Chief Scientist, CSIR-Central Institute of Medicinal and Aromatic Plants, Lucknow.



Prof. Gopal Shukla

Head Department of Forestry
North Eastern Hill University, Tura, Meghalaya.



Prof. Ivi Chakraborty

Department of Postharvest Technology, Faculty of Horticulture
Bidhan Chandra Krishi Viswavidyalaya, Mohanpur Nadia, West Bengal.



Dr. Ranjan Tarai

Associate Professor
College of Horticulture, Odisha University of Agriculture & Technology, Chiplima, Odisha.



Dr. Pinaki Acharyya

Associate Professor and Head, Department of Horticulture
Institute of Agricultural Science, Ballyganj Science College, University of Calcutta.



Dr. Joydip Banerjee

Assistant Professor
Department of Agricultural Food Engineering, Indian Institute of Technology, Kharagpur, West Bengal.



Dr. Ranjit Paul

Assistant Professor, Department of Fruit Science
College of Horticulture and Forestry, Rani LAXmibai Central Agricultural University, Jhansi, Uttar Pradesh.



Dr. Prahlad Deb

Assistant Professor of Horticulture and post harvest technology
Visva-Bharati University, Santiniketan, Bolpur, West Bengal.



For any query please contact:

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