



PROF. RAMDEO MISRA MEMORIAL LECTURE SERIES

A tribute to Father of Indian Ecology

By

FOREST RESEARCH CENTRE FOR ECO-REHABILITATION PRAYAGRAJ

Initiated in 2020 in memory of late Professor Ramdeo Misra- the Lecture Series is organized annually and an eminent scholar in the arena of ecology and environment delivers the lecture. This year Prof. Anupam Pandey, Geography Department, University of Allahabad, Prayagraj will deliver the lecture on the topic-

Impact of Urbanization on vegetation covers using Fuzzy Technique on Satellite Images

Date: 02.03.2021

Time: 11.00 am to 12.30 pm

Venue: Seminar Hall, FRCER, Prayagraj

Link for ONLINE Participants:

<https://meet.google.com/jhm-umdo-dad>



PROF. RAMDEO MISHRA (1908-1998)

Journey of Father of Indian Ecologist

Prof. Ramdeo Mishra is revered as father of Ecology in India. After obtaining Ph.D. in ecology (1937) under Prof. W. H. Pearsall, FRS from Leeds University in UK, he returned to establish ecology teaching and research at the Department of Botany of the Banaras Hindu University. Under his leadership, this Department gained international recognition for research of ecology of tropical ecosystems (forests, grasslands, ponds, lakes, etc.). His researches laid the foundation for understanding of tropical communities and their succession, environmental responses of plant populations, and productivity and nutrient cycling in tropical forests and grassland ecosystems. Prof. Mishra formulated the first postgraduate course in ecology in India. Over 50 scholars obtained Ph.D. degree under his supervision and moved to other Universities and research institutes to initiate ecology teaching/research across the country. He was honored with the Fellowships of Indian National Science Academy and World Academy of Arts and Science, and the prestigious Sanjay Gandhi Award in Environment and Ecology. Due to his efforts, the government of India established the National Committee for Environmental planning and Coordination (1972) which, in later years paved the way for the establishment of ministry of environment and Forests (1984).

Academic and Research Achievements

Mishra had made innovative measurements of soil redox potential and established its value for plant adaptations along soil-moisture gradient. He developed a theory of body biomass build-up; demonstrated ecotypic differentiation and discussed synecological and ecosystem hypotheses in the light of tropical vegetation of India. Examined ecology, social value system and environmental education. Other Contributions: Mishra served on UNESCO's Man and Biosphere Programme as Vice-Chairman of its International Coordination Council; Chairman, International Commission for Training & Research Ecology (1967). Member, Governing Body of Wildlife Institute of India (1986), Advisory Board of Botanical Survey of India (1970-73), Indian National Committee on Human Environment (1969-72), NCEPC;

Vice-Chairman, MAB National Committee (1972-75) and Member, INSA Council (1981-83). Commemorative medals have been instituted in honour of Ramdeo Misra, e.g. Founder's Medal by International Society for Tropical Ecology (instituted in 1979); Ramdeo Misra Gold Medal by Indian Environmental Society (instituted in 1980). He served as chief editor, Tropical Ecology (1960-85); and International Journal of Ecology Environmental Science and Ecology (1975-88) besides being on the editorial boards of many journals and authored/co-authored three books.

Awards and Honours

Misra received Birbal Sahni Gold Medal (1967); Jawaharlal Nehru Gold Medal (Madhya Pradesh Vigyan Academy) (1974); Bronze Medal International Society for Tropical Ecology (1979); Sanjay Gandhi Award for environment and Ecology (Government of India) (1984); Professor TS Sadasivan Endowment Lecture (INSA) (1984); Swami Pranavanand Saraswati Award (UGC) (1986). He delivered the Malaviya Memorial Foundation Lecture (BHU) (1986); Platinum Jubilee Lecture Indian Science Congress (1991). He was the President, Botany Section, Indian Science Congress (1958). He was a Fellow, National Academy of Sciences (India), Allahabad and Indian Botanical Society (President, 1959); Founder Fellow, National Institute of Ecology, World Academy of Arts and Science and International Society for Tropical Ecology (President, 1971-75).

FOREST RESEARCH CENTRE FOR ECO-REHABILITATION, PRAYAGRAJ

Forest Research Centre for Eco-Rehabilitation, Prayagraj is a research and extension hub committed for enhancement of tree cover through development and promotion of site specific agroforestry and plantation models along with rehabilitation of stress sites and mined areas in Uttar Pradesh.

In last 25 years it has come up with innovative technologies and technological packages in social, farm and agro-forestry vis-a-vis prevailing tree crop combinations; nursery and plantation techniques for forest species most suitable to rural needs and ecology; reclamation packages for eroded areas, stress sites, saline/alkaline soils with low moisture retention, degraded forests, pasture and grazing land, mined areas and other wasteland.

Apart from need based research, the Centre is also entrusted to disseminate technological know-how to stakeholders such as state forest departments, farmers, artisans, forest produce based industrialists, environmentalists, etc.

The Centre is managed and run by highly qualified and specialized researchers, who critically analyze the R & D problems received from stakeholders and provide their innovative solutions. Various national/ international funding agencies like World Bank, UNDP, NABARD, NITI Aayog, MoEF & CC, NOVOD Board, NTPC Ltd., NRAA, SFD Bihar, U.P. Council of Science & Technology, U.P. Council of Agricultural Research etc. have been supporting the R & D programme of the Centre.

Vision:

Enhancement of tree cover through development and promotion of site specific agroforestry and plantation models along with rehabilitation of stress sites and mined areas.

Research mandate:

- *To undertake focused research on rehabilitation of degraded ecosystems and difficult /stress sites and promotion of Agro-forestry.*
- *To disseminate available technologies/processes/tools to user groups for conservation and sustainable use of forest resources.*
- *To support the lead institute in research education and extension in the area of jurisdiction.*

Contact:

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PROF. R. MISRA MEMORIAL LECTURE



IMPACT OF URBANIZATION ON VEGETATION COVERS USING FUZZY TECHNIQUE ON SATELLITE IMAGES

PROF. ANUPAM PANDEY

Geography Department, University of Allahabad, Prayagraj

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(Indian Council of Forestry Research & Education, Dehradun, Ministry of Environment, Forest and Climate Change, GOI, New Delhi)