

Dr. T. Muthukumar

Root & Soil Biology Laboratory
Department of Botany
Bharathiar University
Coimbatore - 641 046
Tamil Nadu, India

Title :

Mycoremediation of heavy metal contaminated soils
Mycorrhizal fungi in imparting stress tolerance in plants

Dr. P. Thangavel

Department of Environmental Science
Periyar University
Salem – 636 011
Tamil Nadu, India

Title :

Role of hyperaccumulators in phytomanagement of metal contaminated soils

"Biodiversity starts
in the distant past
and it points toward the future"
- Frans Lanting

"Conservation is a state of harmony
between men and land"
- Aldo Leopold

**Registration Form**

Science Academies' Lecture Workshop on
"Plant Diversity and Phytoremediation"

Periyar University, Salem

January 19-20, 2017

Name :
Category (Student/Staff) :
Level (B.Sc./M.Sc./Ph.D) :
Major Subjects/Study area :
Institution :
Address :

Contact Number (Mobile) :
E – mail :

Signature of the participant

Send the completed Registration forms to:

Dr. P. Thangavel
Coordinator, SALW – PDP 2017
Department of Environmental Science
School of Life Sciences
Periyar University
Periyar Palkalai Nagar, Salem - 636 011
Tamil Nadu, India.
Mobile: 9688222646
Email: thanvel@gmail.com

(Photocopy of this registration form can also be used)

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Science Academies' Lecture Workshop on

**PLANT DIVERSITY AND
PHYTOREMEDIATION**

January 19 and 20, 2017



**Department of Environmental Science
School of Life Sciences
PERIYAR UNIVERSITY**

[Reaccredited with "A" Grade by the NAAC]
Periyar Palkalai Nagar, Salem – 636 011, Tamil Nadu

Sponsored by



Indian Academy of Sciences
Bangalore



Indian National Science Academy
New Delhi



The National Academy of Sciences
Allahabad

Convener

Dr. R. R. Rao, Ph.D., FBS, FES, FIAAT, FNRS, FLS, FNASc., FASc., FNA*

Formerly:

Associate Professor, NEHU, Shillong
Joint Director, BSI, Dehra Dun & Kolkata
Director Grade Scientist, NBRI, Lucknow, and CIMAP, Bangalore
Pitambar Pant National Environment Fellow,
Chairman, Karnataka State Environment Appraisal Committee
CSIR Emeritus Scientist, Bangalore
INSA Honorary Scientist, Bangalore

Coordinator

Dr. P. Thangavel
Assistant Professor
Department of Environmental Science
Periyar University
Periyar Palkalai Nagar, Salem – 636 011
Tamil Nadu, India

About the Periyar University

Periyar University was established at Salem on 17th September 1997 by the Government of Tamil Nadu. The University has taken rapid strides and is emerging as one of the leading Universities. The vision of the University is to impart knowledge to the society through formal and informal modes and to contribute to nation building. Periyar University is reaccredited with 'A' grade by the NAAC with a CGPA of 3.15 in a four point scale. At present, the University has five Science schools and three Arts schools comprising 28 Departments which offer 33 PG programmes and 26 research programmes. Besides the departments, the University has established exclusive centres for Biodiversity and Forest Studies, Geoinformatics and Planetary Science, Instrumentation and Maintenance Facility, Nanoscience, Tamil Computing, Women and Vivekanandha Studies. At present 95 colleges are affiliated to Periyar University, which includes 13 Government colleges and 4 Government aided colleges. More than 1.5 lakh students have enrolled for the undergraduate and postgraduate programmes offered in these colleges.

About the Department

The Department of Environmental Science (School of Life Sciences) was started in 2011 with the aim of providing innovative knowledge and awareness at the forefront of interdisciplinary sciences focusing on environmental care and renewable energy. The Department is established with well-equipped smart classes, laboratory and library, and offers new interdisciplinary curricula for the PG and research programmes. On behalf of PENGREEN (Periyar University Environmental Science Association), the Department has conducted several National Seminars, Conferences, Special Lecture Programmes and Hands on Training Programmes with advanced equipments in collaboration with TNPCB and industrial visits which strengthened the students' views and knowledge in various environmental issues. The Department is striving for industry partnership and MoUs with leading foreign Universities, which enable postgraduates and research scholars to have direct exposure to industrial careers through internships, scholarships and fellowships. Research grants received from various funding agencies including DST, DBT and MoEF & CC, New Delhi to support ongoing research projects in the Department.

About the Workshop

India is one of the 17 megadiversity countries in the world recognised by the World Conservation Monitoring Centre in 2000. The country supports a diverse array of habitats or ecosystems such as forests, grasslands, wetlands, coastal, marine and desert and each with rich and unique floristic diversity. Among the 35 biodiversity hot spots have been identified globally, India has four biodiversity hot spots including Western Ghats and Eastern Himalayas. Globally, the 35 hot spots represent just 2.3% of Earth's land surface, but between them they contain around 50% of the world's endemic plant species and 42% of all terrestrial vertebrates. According to Pimm and Joppa (2015), the total number of angiosperm species estimated at around 450,000, of which 10-20% is still unknown to science.

Soils are the basis of our food production and also it hosts one quarter of our planet's biodiversity. Soil security is the key for food, water and energy security. Several phytotechnologies has been deployed throughout the world to remediate the contaminated sites especially both the organic and heavy metal contaminants. New effective phytoremediation strategies can be designed for remediation of co-contaminated sites using indigenous hyperaccumulators and transgenic plants are need for the hour. The world could produce up to 58% more food for restoring and protecting living soils through sustainable soil management. The proposed workshop will help to identify the solution and gain more knowledge pertaining to environmental security through sustainable manner.

Registration

- ❖ There is **NO REGISTRATION FEE** for the participants. **Spot Registration should not entertain.**
- ❖ The participants will be provided with workshop kit, working lunch and refreshment during the workshop.
- ❖ Only 150 participants will be selected based on the registration forms received (on a first-come, first-served basis). Selected participants will be intimated through email.
- ❖ Attendance Certificates for the participation would be issued based on the request.
- ❖ Registration forms can be sent by post or mailed on or before **January 13, 2017** to: **thanvel@gmail.com**

Science Academies' Lecture Workshop on "Plant Diversity and Phytoremediation" January 19 and 20, 2017

Resource Persons

Venue

Senate Hall, PRIDE Building, Periyar University

Dr. R. R. Rao Ph.D., FBS, FES, FIAAT, FNRS, FLS, FNASc., FASc., FNA*
Formerly : Associate Professor, NEHU, Shillong
Joint Director, BSI, Dehra Dun & Kolkata
Director Grade Scientist, NBRI, Lucknow, and CIMAP, Bangalore,
Pitambar Pant National Environment Fellow,
Chairman, Karnataka State Environment Appraisal Committee,
CSIR Emeritus Scientist, Bangalore,
INSA Honorary Scientist, Bangalore

Title :

Some emerging challenges in contemporary botanical science with a special focus on Plant Taxonomy and Ethnobotany

Endangered species : Problems and Solutions

Dr. K.R. Shivanna Ph.D., FNA, FASc, FNAAS, FNASc
INSA Honorary Scientist
Ashoka Trust for Research in Ecology & the Environment
Srirampura, Jakkur Post
Bengaluru – 560 064
Karnataka, India

Title :

Pollination: Critical ecoservice needed for sustenance of biodiversity and crop productivity

Why India's efforts on conservation of plant diversity are poor?

Dr. M.Sanjappa Ph.D., FNA, FASc, FNASc
INSA Senior Scientist
Botanical Garden
University of Agricultural Sciences
GKVK, Bengaluru - 560 065
Karnataka, India

Title :

Floristic Diversity in India: an over view
Kas Plateau: a botanical paradise in Western Ghats

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