

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 :

Galapagos Islands: Where Darwin's theory of evolution was borne

Pollination: An essential eco-service threatened by anthropogenic activities

Dr. D.J. Bagyaraj, Ph.D., FNA, FASc, FNASc
NASI Senior Scientist & Chairman
Centre for Natural Biological Resources and Community Development (CNBRCD)
Bengaluru – 560 024
Karnataka, India

Title :

Soil Biodiversity

Ecology of AM fungi

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

Title :

Global climate change scenario: An overview

Influence of climate change on biodiversity resources

**"And no challenge poses a greater threat to future generations than climate change"
-- Barack Obama**



Registration Form

Science Academies' Lecture Workshop on
"Perspectives in Climate Change and Biodiversity"
Periyar University, Salem

October 03-04, 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 – PCCB 2017
Department of Environmental Science
School of Life Sciences
Periyar University
Periyar Palkalai Nagar, Salem - 636 011
Tamil Nadu, India.
Mobile: 9688222646
Email: ptpccb2017@gmail.com

(Photocopy of this registration form can also be used)

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Science Academies' Lecture Workshop on
**Perspectives in
Climate Change and Biodiversity**

October 03 and 04, 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



Venue
Senate Hall, PRIDE Building, Periyar University

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 34 P.G programmes and 31 research programmes. Besides the departments, the University has established exclusive centres for Floral Studies, Geoinformatics and Planetary Science, Instrumentation and Maintenance Facility, New and Renewable Energy Studies, Nanoscience, Tamil Computing, Women and Vivekanandha Studies. At present 96 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 and Special Lecture/Awareness/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 from various funding agencies to the tune of more than two crores 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. Unfortunately, due to population explosion, climate change and lax implementation of environmental policies, several species are facing the threat of extinction. According to IUCN Red List Criteria, 21% of global plants species are currently threatened with extinction.

According to Mouna Loa Observatory, Hawaii (NOAA-ESRL), the monthly mean global atmospheric CO₂ concentration is 407.07 ppm in July 2017 and this level was more than 45% higher as compared to pre-industrial values of 280 ppm. The average global land and ocean surface temperature for July 2017 was the second highest for the month at 0.83°C (1.49°F) above the 20th century average of 15.8°C (60.4°F), behind the record year 2016 by 0.05°C (0.09°F). Nine of the 10 warmest Julys on record have occurred during the 21st century (since 2005), with only one year from the 20th century (1998) among the top 10 warmest Julys on record. July 2017 also marks the 41st consecutive July and the 391st consecutive month with a global temperature at least nominally above the 20th century average. Recently, conservationists and scientists have long been trying to draw attention to the fate of Great Barrier Reef - also known as one of the seven natural wonders of the world - which is slowly but surely succumbing to the effects of environmental pressures, including global warming. The spring season was started 3 days earlier in 2017 in USA have influenced on several changes including distorted the behavioural patterns, change the location of migratory species, alter the awakening time of hibernating animals, increase the seasonal insect populations and impact on agriculture yield. The consequences of global warming on polar environment such as melting of ice glaciers and its impact on

biodiversity resources especially Svalbard Global Seed Vault, polar bear, penguins and other species are faced to be extinct by 2050. The proposed workshop will help to identify the solution and strengthen the knowledge pertaining to the protection and utilization of biodiversity resources in a sustainable manner to achieve the Goal 13 of SDGs to limit the increase in global mean temperature to 2°C above pre-industrial levels.

Registration

- ❖ There is **NO REGISTRATION FEE** for the participants. **Spot Registration is not entertained.**
- ❖ The participants will be received workshop kit, working lunch and refreshment during the workshop.
- ❖ Only 150 participants will be selected based on the registration forms received (on first-come, first-serve basis). Selected participants will be intimated through email.
- ❖ Attendance Certificates for the participation will be issued based on the request.
- ❖ Registration forms can be sent by post or email on or before **September 25, 2017** to: **ptpcb2017@gmail.com**

**Science Academies' Lecture Workshop on
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Resource Persons**

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 :

Conservation and Bioprospection of Floristic Diversity in India – A priority agenda for 21st century

Role of Taxonomy and Ethnobotany in promoting medicinal plants research in India