Coordinator’s Report

A Two day Science Academies’ lecture workshop on ‘Recent Advancement in Environmental Sciences in Sustaining Natural Resources and Maintaining Healthy Livelihood’ was organized on 22-23 August, 2014 by the Department of Physical Sciences, St. Pious X Degree & PG College for Women, Hyderabad. The aim of the workshop was to promote awareness among the students about the environmental pollution caused by anthropogenic impact and also educating them about the role of science and technology in the protection of environment. The workshop was jointly sponsored by the three Science Academies of India. The response towards the workshop was overwhelming. Altogether 90 outside participants (faculty, research scholars and students) from 26 colleges /research institutions/universities of the twin cities attended the workshop. Six distinguished speakers from India’s premier research organizations and universities had enlightened the participants through their excellent deliberations. A wide range of topics on environmental sciences were covered and all the lectures were informative, interesting and thought provoking.

The workshop was inaugurated formally through lighting of lamp by the chief guest Dr. D. S. Ramesh, Director, Indian Institute of Geomagnetism, Navi Mumbai along with other dignitaries. He also delivered the key note address, where he highlighted about the possible drivers of the recent climate change and global temperature rise.

The lecture session of 22nd August was initiated by the talk of Dr. R.N. Singh, FNA, FASc. In the morning session the topic on which he made his deliberation was on “Mathematical modeling for sustainable development of natural resources”. His second lecture in the post-lunch session was on “Enhancing environmental services”. Emphasizing the importance of
mathematical modeling he stressed that it is possible to characterize the quality and quantity of resources and predict changes due to both natural and man-made causes through mathematical modeling.

Prof. E. Saibaba Reddy, Department of Civil Engineering, Jawaharlal Nehru Technological University, educated the students on the role of Science and Technology in the protection of environment.

On 23rd August, the lecture session commenced with the talk of Prof. Anji Reddy, Department of Environmental Sciences, Jawaharlal Nehru Technological University. He delivered an informative lecture on the process and applications of Remote sensing, GIS and GPS.

The second lecture of the morning session was delivered by Shaik Pentu Saheb, Chief Scientist and Head, NEERI Zonal Laboratory, Hyderabad on “Environmental pollution and impact assessment”. He enlightened the participants on various aspects such as air and water pollution, measures to control pollution, and EP- Act. He also spoke on environment impact assessment (EIA).

The lecture session during the post-lunch session continued with the talk of famous Ecologist Prof. Appa Rao Podile, University of Hyderabad. The topic was on “Environment friendly approaches for plant disease management”. He discussed about the environmental-friendly technologies for crop protection.

The concluding speaker Dr. S. Venkat Mohan, Principal Scientist, Indian Institute of Chemical Technology, Hyderabad delivered an interesting lecture on “Synergy between energy and environment: sustainable waste management practices”. His talk focused on how we can convert waste to energy. He discussed various routes for bio-hydrogen production from waste water, bioelectricity production through microbial fuel cell etc.

The very purpose of conducting this workshop was to generate public awareness about the various environmental issues and to take necessary steps for its protection for the future generation. I strongly feel that the goal is fully achieved and the participants were benefited through it. Overall the workshop was a grand success.
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<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Session</th>
<th>Speakers/Institutions</th>
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<tbody>
<tr>
<td>22nd</td>
<td>9.30 -10.30 AM</td>
<td><strong>INAUGURAL SESSION</strong></td>
<td>Dr. D.S. Ramesh, Director, Indian Institute of Geomagnetism, Mumbai</td>
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<td>10.30 -11.15 AM</td>
<td><strong>Mathematical Modeling for Sustainable Development of Natural Resources</strong></td>
<td>Dr. R.N. Singh, FNA, FASc, INSA, Sr. Scientist, National Geophysical Research Institute, Hyderabad</td>
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<td>11.30 AM - 12.45 PM</td>
<td>Tea Break (11.15 - 11.30 AM)</td>
<td>Prof. E.Sai Baba Reddy, Jawaharlal Nehru Technological University, Hyderabad</td>
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<td>1.30 - 2.45 PM</td>
<td>Enhancing Environmental Services</td>
<td>Dr. R.N. Singh, FNA, FASc, INSA, Sr. Scientist, National Geophysical Research Institute, Hyderabad</td>
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<tr>
<td>23rd</td>
<td>9.30 -10.45 AM</td>
<td>Recent Advancement in Environmental Protection-EP-Act</td>
<td>Prof. M. Anji Reddy, Jawaharlal Nehru Technological University, Hyderabad</td>
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<td>11.00 - 12.15 PM</td>
<td><strong>Environment Friendly Approaches for Plant Disease Management (Part-A)</strong></td>
<td>Shaik Pentu Saheb, Chief Scientist &amp; Head National Environmental Engineering Research Institute, Zonal Laboratory, Hyderabad</td>
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<td></td>
<td>12.15 PM - 1.30 PM</td>
<td>Tea Break (12.45 - 1.30 PM)</td>
<td>Prof. Appa Rao Podile, FNASc, University of Hyderabad, Hyderabad</td>
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<td>2.15 - 3.30 PM</td>
<td>Environment Friendly Approaches for Plant Disease Management (Part-B)</td>
<td>Prof. Appa Rao Podile, FNASc, University of Hyderabad, Hyderabad</td>
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<td>3.45 - 5.00 PM</td>
<td>Synergy Between Energy &amp; Environment: Sustainable Waste Management Practices</td>
<td>Dr. Venkata Mohan, Principal Scientist, Indian Institute of Chemical Technology, Hyderabad</td>
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**SPONSORED BY**

- Indian Academy of Sciences (Bangalore)
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22 - 23 August, 2014
St. Pious X Degree & PG College for Women
Nacharam, Hyderabad – 500076
(Accredited by NAAC with ‘A’ Grade)
Science Academies’ Lecture Workshop

Recent Advancement in Environmental Sciences in Sustaining Natural Resources and Maintaining Healthy Livelihood
22 - 23 August, 2014

List of speakers

1. Dr. R. N. Singh, FNA, FASc
   INSA Senior Scientist, National Geophysical Research Institute, Hyderabad.

2. Prof. Appa Rao Podile, FNASC
   University of Hyderabad, Hyderabad.

3. Prof. E. Saibaba Reddy
   Jawaharlal Nehru Technological University, Hyderabad.

4. Prof. M. Anji Reddy
   Jawaharlal Nehru Technological University, Hyderabad.

5. Shaik Pentu Saheb, Chief Scientist and Head
   National Environmental Engineering Research Institute, Zonal Laboratory, Hyderabad.

6. Dr. S. Venkata Mohan, Principal Scientist
   Indian Institute of Chemical Technology, Hyderabad.
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on
Recent Advancement in Environmental Sciences in Sustaining Natural Resources and Maintaining Healthy Livelihood
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List of participated colleges

1. University College for Women, Koti
2. St. Ann’s Degree College, Mehdipatnam
3. Sri Indu Institute of Engineering
4. Veda Degree College
5. Railway Degree College, Tarnaka
6. Navbharat College
7. BITS Pilani, Hyderabad Campus
8. Department of Chemistry, Osmania University
9. Sri Prakash College
10. Sreenidhi College of Engineering
11. Andhra Mahila Sabha College
12. CMR College of Engineering and Technology
13. Matrusri Engineering College
14. Gurunanak Engineering College
15. Einstein College
16. Indian Institute of Chemical Technology, Hyderabad
17. Avanthi Degree College
18. Holy Cross Degree College
19. GITAM University, Hyderabad
20. University College of Science, Saifabad
21. R. B. V. R. R. Women’s College
22. Little Flower Degree College
23. CVR Engineering College
24. Narayanamma Engineering College
25. Chaitanya Bharathi Institute of Technology
26. Brilliant Engineering College
27. St. Pious X Degree & PG College for Women (Host College)