

Workshops held by Centre for Environment and Climate Change

1. Report on The two day National Conference on Impact of Nanoparticles and Nanomaterials on Health and Environment on June 23th & 24th, 2014.

The two day National Conference on Impact of Nanoparticles and Nanomaterials on Health and Environment was conducted by Jawaharlal Nehru Institute of Advanced Studies (JNIAS) at Central Research Institute of Unani Medicine (CRIUM), Erragada, Hyderabad.

Dr. D. Swaminadhan, Chairman, D. Swaminadhan Research Foundation (DSRF), President, JNIAS was the Chief Guest for the occasion and Prof. Suman Kapur, Dean, International Programmes and Collaboration Division, BITS Hyderabad and Prof. Anand K Kondapi, Professor, Dept of Biotechnology, University of Hyderabad were the Guests of Honor.

Inaugural function started with welcome address by Smt. Sujatha Gangadhar, Registrar, JNIAS and Organizer of the Conference. Smt. Sujatha Gangadhar introduced the guests and spoke about JNIAS. Thereafter Dr. Kaiser Jamil, Dean, School of Life Sciences, Director, Centre for Biotechnology and Bioinformatics, JNIAS and Convener of the Conference spoke about the purpose of the Conference and its application for Environmental and Health concerns. She informed the audience that Conference will have 2 keynote presentations, 10 invited speakers and more than 25 presentations from young scientist participants. Further, she said that the Conference addresses tactical challenges in the area of toxicology and safety of nanomaterials and more than 1000 consumer products have been launched using nanomaterials, which include food package material, textiles, cosmetics, medical devices, etc. She also pointed out that besides North America, the manufacture of nanotechnology products has shifted to China, North Korea and Taiwan.

The Conference was inaugurated by the Chief Guest, Dr. D. Swaminadhan, by lighting of the lamp. Prof. Suman Kapur, Prof. Anand K Konadapi, Dr. Kaiser Jamil, Smt. Sujatha Gangadhar joined in the lighting of the lamp.

This was followed by release of Conference volume by the Guests of Honor: In their address, the Guests of Honor emphasized the need to develop more research projects in this emerging area of science and technology. Prof. Suman Kapur said that the nanoparticles, present in soil, air and water could pose a threat to environment, health and agriculture. Hence, these should be used carefully. Prof. Anand K Kondapi spoke on the use of nanotechnology and their integration with various disciplines of traditional medicine.

Dr. D. Swaminadhan in his Presidential address emphasized the need for more support from Government and Private sector in furthering research in this area. Further, he proposed he need to develop regulations that could be implemented in the use of nanotechnology. He also came forward with the proposal of collaboration between various Universities, Medical Institutions with JNIAS to develop indigenous technologies in the field of nanoscience. Dr. D. Swaminadhan is keen to set up Nanoscience and Technology Centre with an objective to work on thrust areas of science and technology.



Dr. Kanakabhushanam from KIMS Research Centre, Hyderabad explained the use of nanoparticles in medicine and was keen on collaborative projects in this area.

Vote of thanks was delivered by Dr. D. Sirisha, Head, Centre for Environment and Climate Change (CECC), JNIAS and C- Convener of the Conference.



2. International Conference on “Emerging Trends in Biomarker Research - Prospects and Challenges” on 13 & 14 September, 2013 at IICT, Hyderabad

Jawaharlal Nehru Institute of Advanced Studies (JNIAS) has successfully conducted a two day International National Conference on “**Emerging Trends in Biomarker Research - Prospects and Challenges**” on 13 & 14 September, 2013. The Venue of the International Conference was the Auditorium, Indian Institute of Chemical Technology (IICT), Hyderabad, Andhra Pradesh. The Chief Guest of the Inaugural Session was Dr. G. Tulasi Ram Das, Vice-Chancellor, Jawaharlal Nehru Technological University, Kakinada (JNTUK), A.P and the Guests of Honour were Dr. Ch. Mohan Rao, Director, Center for Cellular and Molecular Biology (CCMB), Hyderabad and Dr Suresh Atilli, Medical Oncologist and Hematologist, Consultant at Apollo Hospital and Member of Board of Directors, ClinSync, Hyderabad.

The two day Conference included six Technical Sessions on various themes namely, Biomarkers Discovery & Development, Companion Diagnostics & Personalized Medicine, Biomarkers in Clinical Development, Enabling Technologies & Identification, Biomarkers for better prognosis and diagnosis, Biomarkers development - Case Studies, Translational Biomarkers in Drug Development and Cancer Molecular Markers to Guide Therapy.

Many Scientists, Pharmaceutical Industrialist, Technologists, Educationists representing various Universities, Institutions, NGOs and Government Departments have actively participated. A number of research papers were presented and a Conference Volume consisting of selected Abstracts was released at the Inaugural Session on September 13, 2013 by the Chief Guest, Dr. G. Tulasi Ram Das.

The Inaugural session commenced with a welcome address by Smt. Ch. Sujatha Gangadhar, Registrar, JNIAS, who gave a brief report on various academic and research activities at JNIAS. Dr. Kaiser Jamil, Dean, School of Life Sciences, presented the theme of the Conference and gave a detailed view of the need for conducting this conference and called upon the audience and paper presenters to contribute towards the success by participating actively in the conference.

Dr. D. Swaminadhan delivering his Presidential address referred to the need for integrating research with the present needs of the industry which would result in ultimately addressing the common mans problem. He emphasized the need for the collaboration between various research institutes such as IICT, CCMB, JNIAS, and Universities such as JNTUH, Hyderabad Central University and Osmania University along with industries to develop new technologies that would help in Biomarkers Research and development.

The Valedictory Session of the National Conference on Biomarkers for Diseases - Prospects & Challenges was conducted on 14, September, 2013. The Chairman and President of JNIAS Dr. D. Swaminadhan expressed his happiness about the participation of huge number of research scholars and students in the Conference and called upon them to play active role in the ongoing research in the area of Biomarkers. He also praised the Conference organizing team for their efforts in organizing the conference and their role in its success.

Dr. Kaiser Jamil, Dean, School of Life Sciences, JNIAS gave a brief report about the deliberations and the proceedings of the conference followed by the Distribution of Certificates and awards to the participants. The two day International Conference gave participants exposure towards various aspects related to Biomarkers and their implications in diagnosis, prognosis and therapeutics.

Lastly, a vote of thanks was proposed by Dr. D. Sirisha, Head Center for Environment and Climate Change, (CECC), School of Environmental Sciences (SES), JNIAS, Hyderabad.



3. NATIONAL CONFERENCE ON “BIOMARKERS FOR DISEASES - PROSPECTS & CHALLENGES” - 24 – 25 February 2012.

Jawaharlal Nehru Institute of Advanced Studies (JNIAS) has successfully conducted a Two day National Conference on “Biomarkers for Diseases - Prospects & Challenges” during 24 – 25 February 2012. The Venue of the National Conference was the Auditorium, Jawaharlal Nehru Architecture and Fine Arts University, Masab Tank, Hyderabad, Andhra Pradesh. The Chief Guest of the Inaugural Session was Dr. R.V. Raja Kumar, Vice-Chancellor, Rajiv Gandhi University of Knowledge Technologies, Gachibowli, Hyderabad, and the Guest of Honour was Dr. D. Raghunadha Rao, Professor and Head Department of Medical Oncology, Nizams Institute of Medical sciences (NIMS), Hyderabad.



The two day Conference included six Technical Sessions on various themes namely, Integrated Biomarkers of Various Diseases, Biomarkers for Diseases Prediction and Model Biomarkers, Biomarkers in Clinical practice and Disease Progression, Biomarkers in newer areas like Metabolomics and Genomics, Future trends in Biomarkers for Research and Development respectively.

Many Scientists, Technologists, Educationists representing various Universities, Institutions, NGO's and Government Departments have actively participated. A number of research papers were presented and a Conference Volume consisting of selected Abstracts was released at the Inaugural Session on February 24, 2012 by the Chief Guest, Dr. R.V. Raja Kumar.

Dr. D. Swaminadhan delivering his Presidential address referred to the need for integrating research with the present needs of the industry which would result in ultimately addressing the common man's problem. He expressed keen interest in

the formation of Biomarker Research Society which would spread awareness about the emerging issues in the area of Biomarkers and also work towards development of novel Biomarkers for various diseases.

The Valedictory Session of the National Conference on "Biomarkers for Diseases - Prospects & Challenges" was conducted on February 25, 2012. The Chief Guest Sri. Ponnala Lakshmaiha, Hon'ble Minister for Information Technology and Communications, Govt. of A.P could not grace the occasion due to unavoidable reasons. Dr K.V. Raghavan, INAE Distinguished Professor, Indian Institute of Chemical Technology, Hyderabad was the Guest of Honor. He expressed happiness about the participation of huge number of research scholars and students in the Conference and called upon them to play active role in the ongoing research in the area of Biomarkers. Dr. Kaiser Jamil, Dean, School of Life Sciences, JNIAS gave a brief report about the deliberations and the proceedings of the conference followed by the Distribution of Certificates to the participants. The two day National Conference gave participants exposure towards various aspects related to Biomarkers and their implications in diagnosis, prognosis and therapeutics.

4. NATIONAL CONFERENCE ON “EMERGING TRENDS IN SOLID WASTE MANAGEMENT TECHNOLOGIES” – June 04th & 05th, 2011.

Jawaharlal Nehru Institute of Advanced Studies has successfully conducted a 2 day National Conference on “Emerging Trends in Solid Waste Management Technologies” on June 4th and 5th 2011. The Venue for the National Conference was Dr. MCR HRD Institute, Jubilee Hills, Hyderabad.



The Chief Guest of the Inaugural Session was Dr. P. Padmavathi, Vice-Chancellor, Jawaharlal Nehru Architecture & Fine Arts University, Masab Tank, Hyderabad and the Guest of Honour was Dr. Mrs. Y. Saraswati Rao, Former Vice-Chancellor, Sri. Krishna Devaraya University, Anantapur. Dr. D. Swaminadhan, President, JNIAS presided over the function. The 2 day Conference included VI Technical Sessions on various themes namely Solid Waste Management Technologies, Reduction. Re-use and Recycling of Solid Waste & Regulatory Issues, Sustainable Solid waste Management status and perspective, Education & Training & Solid Waste Management in Common Effluent Treatment Plants (CETP) etc. Many Scientists, Technologists, Educationists representing various Universities, Institutions, NGO's and Government Departments have actively participated. A number of research papers were presented and a Conference Volume consisting of all the accepted research papers was released at the Inaugural Session on June 04, 2011 by the Chief Guest, Dr.P.Padmavati.

As a part of the above National Conference, JNIAS celebrated "The World Environment Day2011" on June 5th 2011 and a Plenary Session was conducted to mark the World Environment Day. Dr. D. Swaminadhan, President, JNIAS presided over the Session. Dr. Mrs. Valli Manickam, Chairperson, Environment Area, Administrative Staff College of India (ASCI), Hyderabad and Dr.Y. Rajeshwar, Director (Training), Centre for Climate Change and Environment Advisory, Dr. MCR HRD Institute, Hyderabad were the keynote speakers.



Dr. D. Swamindhan delivering his Presidential address referred to the announcement of United Nations Environment Program (UNEP) making India the Global Host of World Environment Day 2011. The theme for the year 2011 is "Forest: Nature at your Service". A pledge was drafted to mark the World Environment Day-2011 and it was put up for discussion before the participants. After deliberations, the pledge was finalized as follows:

"We the participants of this conference along with JNIAS pledge to contribute through our daily actions towards benign consumption, efficient use of resources and preserving the local ecosystems for posterity"

The Valedictory Session on the 2 day National Conference on "Emerging Trends in Solid Waste Management Technologies" was held on June 5th 2011 at 5.pm at Dr. MCR HRD Institute, Jubilee Hills, Hyderabad. The session was chaired by Dr. D. Swaminadhan President, JNIAS.

Chief Guest of the Valedictory Session was Dr. B. Krishna Gandhi, Vice-Chancellor, Jawaharlal Nehru Technological University Anantapur (JNTUA), Anantapur and Smt. C.S Rama Lakshmi, IFS, Director - General, A.P Forest Academy, Hyderabad was the Guest of Honour.

Dr. D.Sirisha, Head Centre for Environment and Climate Change, JNIAS gave brief report about the conference followed by the Distribution of Certificates to the participants.

The 2 day National Conference gave participants exposure towards various aspects of Solid Waste Management Technologies such as importance of Solid Waste Management, various Technologies recommended for Management of Solid Waste, various methods to Reuse and Recycle Solid Waste and also Importance of Land fill Technology.

5. US India Conference-cum-Workshop on “Air Quality and Climate Research” – March 14 – 24, 2011.

US- India Conference-cum Workshop on “Air Quality and Climate Research” was organised at Jawaharlal Nehru Institute of Advanced Studies (JNIAS), Hyderabad jointly with Administrative Staff College of India (ASCI) in collaboration with North Carolina State University-USA,

University of North Carolina-USA and Ansal Institute of Technology (AIT)- Delhi from March 14- 24, 2011.

The Valedictory Session on US - India Workshop on ‘Air Quality and Climate Research’ was held on 24-March 2011 at 4.pm Conference Hall, 6th Floor, Buddha Bhawan, JNIAS. The session was chaired by Dr. D.Swaminadhan President, JNIAS and Ch. Sujatha Gangadhar, Registrar, JNIAS delivered the welcome speech and about the workshop.

Chief Guest of the session was Sri. P. Ramakanth Reddy I.A.S (Retd.), State Election Commissioner. Sri. Chiranjiv Chaudhary I. F. S Commissioner (R&R) I & CAD Dept. And Smt. Anjana Sinha I.P.S Inspector General of Police, Special Protection Force, A.P were the guest of honours. Dr. I. V Murali Krishna, Chairman, Organising Committee, US-India Workshop given closing remarks followed by the Presentation of Mementoes and Distribution of Certificates to the participants.



Dr. Valli Manickam, Chairperson, Environment Area, ASCI, Hyderabad expressed vote of thanks to all the participants and partner institutions.

The workshop was sponsored by US National Science Foundation (NSF), United States Environmental Protection Agency (USEPA), National Oceanic and Atmospheric Administration (NOAA), United States and Supported by Department of Science and Technology (DST), Ministry of Earth Sciences (MOES), Ministry of Environment and Forests (MOEF) and Oil and Natural Gas Corporation Ltd (ONGC).

The overarching goal of this endeavor is to bring together experts from the U.S.A. and India to establish the framework for capacity-building and continued research collaborations in air quality monitoring, forecasting and to develop an advanced air quality decision support system. The Workshop gave hands on training to 41 participants from various Universities, Industries and Research organisations on three important models of Air Quality namely:

SMOKE - Sparse Matrix Operator Kernel Emission (SMOKE) Model,
WRF - Weather Research Forecast Model
CMAQ - Community Multiscale Air Quality Model

The 6 day training gave participants exposure on the data requirements, installation of softwares, system components, case studies and application examples of all the three training models.