



# Fourth International Conference on Plants & Environmental Pollution (ICPEP-4)

Date: 8-11 December 2010

Venue: NBRI, Lucknow, India

## Organized by:



**International Society of Environmental Botanists**



**National Botanical Research Institute (NBRI), Lucknow**

## Sponsored by:



**Council of Scientific & Industrial Research (CSIR), New Delhi**



**Indian National Science Academy, New Delhi**



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Govt. of India, New Delhi**

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(President ISEB and Director NBRI & IITR)

**Dr. K. J. Ahmad**  
(Secretary ISEB)

**Dr. R. D. Tripathi**  
(Scientist NBRI)

**Organizing Secretaries ICPEP-4**

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## About ISEB & NBRI

International Society of Environmental Botanists (ISEB) is a non-governmental, non-profit registered scientific Society founded in 1994 to promote research, education and awareness activities and to disseminate information on the role of plants in environmental protection, pollution remediation and biodiversity conservation. ISEB's mission is to bring complex scientific news and views on environment and plant life to the reach of non-specialists, and its sphere of activities extends from local to regional and global levels. ISEB publishes a quarterly news magazine, ENVIRONNEWS. Detailed information about ISEB can be accessed from its website: <http://isebindia.com>

ISEB is based on the campus of the National Botanical Research Institute, Lucknow (NBRI), which is the premier plant science institute of the country under the aegis of Council of Scientific & Industrial Research (CSIR), New Delhi, Govt. of India. NBRI, through its researches in the multidisciplinary areas of plants sciences during the past over 60 years, now occupies a prominent place on the world map of R&D institutions. Dr. Rakesh Tuli, the Director of NBRI is also the President of ISEB.

ISEB AND NBRI have organized three highly successful International Conferences on Plants and Environmental pollution in Lucknow in 1996, 2002 & 2005. These conferences have been sponsored by international organization like UNESCO, UNEP, TWAS, IUBS, and Indo-US Science & Technology Forum, besides scores of ministries/departments of Government of India. Fourth International Conference on Plants & Environmental Pollution is being organized during **8-11 December 2010** in Lucknow, India. Prestigious international organizations, development banks, foundations and Corporate sector promoting environmental protection activities under their social responsibility programmes have been invited to co-sponsor this conference which will deliberate on crucial issues like environmental protection, climate change and food security.

## Conference Information

Most of the environmental concerns faced by the developed countries following industrial revolution and resultant economic boom and consumerism in the past are now spreading to the developing countries as well. Among the scourges faced by mankind today, environmental pollution is in the forefront. In the greater part of the last century, it was the fast pace of industrialization, galloping demand for energy and reckless exploitation of natural resources, in developed countries, that were mainly responsible for creating the problem of environmental pollution.

Current scenario is, however, vastly different, as widespread poverty, illiteracy and burgeoning population are leading to increasing environmental pollution at a pace which were unimaginable only few decades earlier. Climate change is the biggest threat faced by this planet since 'Ice Age'. There is now worldwide concern about this impending disaster as geographical or political boundaries are no more relevant in the present scenario. When it comes to the hazards of environmental pollution, there is only a very thin dividing line between developed and developing countries. One pollutes and the other suffers, equally, if not more.

To improve communication and to exchange information between scientists from various parts of the world, an International Conference on Plants and Environmental Pollution (ICPEP-1) was jointly organized by International Society of Environmental Botanists and National Botanical Research Institute Lucknow, India during 26-30 November 1996. This highly successful Conference, organized for the first time in this field in India, was co-sponsored by several prestigious international agencies and attended by nearly 200 delegates from India, U.K., U.S.A., Canada, Germany, France, Japan, Sweden, Greece, Slovakia, Russia, Philippines, The Netherlands, Malaysia, Nepal and Sri Lanka.

On the conclusion of the five-day meet, a set of recommendations were drafted by a panel of experts which were discussed at a plenary session and forwarded to relevant national and international agencies for implementation. While the Abstracts of the oral and poster sessions were published and released during the Conference, full Proceedings

of the Conference entitled "**Environmental Stress: Indication, Mitigation and Eco-conservation**" was published later by Kluwer Academics, The Netherlands.

On the conclusion of the deliberations of ICPEP-1, the delegates widely appreciated the genesis and outcome of the Conference, and unanimously recommended to the organizers (ISEB and NBRI), to organize such international conferences on a regular basis after an interval of three years or so. This suggestion was accepted by the authorities of NBRI and ISEB.

The Second International Conference on Plants & Environmental Pollution (ICPEP-2), was organized at the National Botanical Research Institute, Lucknow (India) from February 4-9, 2002. This Conference, which was jointly organized by NBRI and ISEB, was co-sponsored by some 11 national and international organizations. Some 300 participants including 50 scientists from 21 countries outside India, attended the Conference. Noted Indian scientist and father of India's "Green Revolution" Prof. M.S. Swaminathan, F.R.S. inaugurated the conference and gave the opening address on "*Biodiversity: An effective safety net against environmental pollution*". Some eight technical sessions and two satellite sessions, besides a valedictory session, were held during the five-day Conference. In addition to the many oral presentations, lead lectures and invited lectures from some distinguished scientists across the globe, 130 posters were displayed (mainly by students) at the Conference.

While some of the papers from the oral presentations at the Conference were published in a Special Issue of **Environmental Pollution** (Vol.126, 2003), which is a highly prestigious international journal published by Elsevier, another 52 papers (both oral and poster presentations) have been published in the Conference Proceedings entitled "**Plant Response Under Environmental Stress**" published by I.B.D. Publishers.

The diverse scientific interests of the Conference participants and consequently its technical content served as the basis for international communication and exchange of ideas. Some 300 delegates from **Argentina, Australia, Brazil, Canada, China, Egypt, Finland, Germany, India, Iran, Japan, Malaysia, Mexico, Nepal, Poland, Russia, Spain, Sri Lanka, U.K., U.S.A., Uzbekistan** and **Venezuela** left the Conference with a better mutual understanding of the overall issues and the need for collaboration.

Third International Conference on Plants and Environmental Pollution (ICPEP-3) was jointly organized by ISEB and NBRI during 28th November to 2nd December 2005 at NBRI, Lucknow. The conference provided a vibrant forum for serious discussions and deliberations on the burning problem of environmental pollution and the role of plants in its bio-indication and remediation. The conference was inaugurated by His Excellency Shri T.V. Rajeswar, the Governor of Uttar Pradesh in the presence of nearly 500 five hundred distinguished guests and delegates on 28th November 2005

The four day scientific programme that followed was attended by over 350 delegates representing R& D organizations from India and 30 foreign countries. The scientific programme was divided into eight technical sessions and a daylong poster presentation.

A special 'start up' meeting on Air Pollution Crops Effects Network (APCEN) was concurrently organized jointly by ENVIS-NBRI and Regional Air Pollution in Developing Countries (RAPIDC) on 29th November. Dr. Lisa Emberson of Stockholm Environment Institute gave an overview of the RAPIDC programme at this meeting.

On the conclusions of the deliberations in Lucknow, a daylong satellite session was organized by Prof. Muhammad Iqbal at the Botany department of Jamia Hamdard (Hamdard University), New Delhi on 4th December 2005. This seminar, focusing specially on medicinal plants in relation to environmental pollution, was inaugurated by the Chairman of University Grants Commission of India Prof. V.N. Rajasekhara Pillai.

As in the past, the **Fourth International Conference (ICPEP-4)** will be jointly organized by **International Society of Environmental Botanists (ISEB)** and **National Botanical Research Institute (NBRI), Lucknow, India**. This Conference aims to provide an international forum for serious discussions and deliberations on the

burning problem of environmental pollution and the role of plants in pollution indication and remediation and such related issues as biodiversity conservation, sustainable development, climate change and effects of pollution on agriculture, food productivity, forestry and human health. Some 300 eminent environmental scientists, academicians, young research students, NGOs, government officials, and managers of industry are expected to participate in this prestigious multi-disciplinary Conference. Over 100 distinguished environmental scientists and students from overseas, both developed and developing countries are expected to attend this conference.

India, with a population well over a billion people, is home to one-sixth of the humanity. It is a developing country, where its teeming millions suffer from poverty, illiteracy, malnutrition resulting in severe degradation in environmental quality and ill health. However, with its strong industrial base, sound infra-structure and phenomenal progress in science and technology, it is poised to become a developed country in not too distant future. It is, therefore, ideally suited to host a conference of this type and magnitude. Because of its sheer size and population, what India does today, will have its impact on the entire planet tomorrow. This is more likely in the areas of environment, biodiversity conservation and sustainable development. Entire global community, therefore, has a vested interest in supporting and sustaining any move for protection of environment and biodiversity conservation in this country.

An International Advisory Committee with some of the most reputed and highly distinguished environmental and plant scientists has been constituted to guide and advice in planning and organizing this Conference.

#### **Areas/disciplines of the Conference:**

1. Bio-indication & Bioremediation
2. Environmental biotechnology
3. Environmental education, Mass awareness and Legislation
4. Environmental Impact Assessment and Eco-auditing
5. Environment and Biodiversity
6. Plant Responses to Environmental Pollution
7. Climate change
  - Impacts of Air Pollution and Climate Change on Forest Ecosystems - in collaboration with International Union of Forest Research Organizations, (IUFRO) Vienna, Austria - Special one day concurrent/satellite session.
  - Agriculture & Food Production.
  - Aquatic Ecosystems.
  - Human health.
  - Role of botanic gardens in climate change research
8. Contemporary environmental issues
  - Palaeo-Environment
  - Environmental impact on cultural heritage
  - Environmental systems and Disaster management
  - Bio-pollutants
  - Indoor pollutants
  - Bio-energy
  - Sustainable agriculture
  - Human settlements
  - Alien Plant Invasion
9. Biotechnology, GM Food & Environmental Safety (Special Session)

## **Procedure for Submission of Abstract and Registration**

### **Abstract of Paper:**

The Abstract not exceeding one A-4 page is to be typed in "Times New Roman" 12 pt normal font, single line spacing and should include:

- Title of Paper in BLOCK letter
- Name of author(s) in italics with an asterisk (\*) marked against the name of the presenting author,
- 5 to 6 key words
- Main body
- Author(s)' primary institutional affiliations using superscript numerals including full address of all the authors (s) up to town and country and their E-mail IDs.

Hard copies of Abstract, along with duly filled registration form, complete in all respects (including a passport size coloured photograph of the delegate duly pasted on the form) and, Bank draft of the Registration fee should be mailed to the Organizing Secretaries ICPEP-4, International Society of Environmental Botanists, National Botanical Research Institute, Lucknow-226001, India. Payment of registration fee along with the Registration fee is not mandatory and it can also be paid at the Registration counter of the conference but, for inclusion of the abstract in the Book of Abstracts and for availing fee concession the registration fee must be remitted before 30th September 2010 positively.

An electronic version of the abstract should simultaneously be e-mailed to Dr. Ms. Nandita Singh, Convener, Publications Committee, ICPEP-4 on [nanditaicpep4@gmail.com](mailto:nanditaicpep4@gmail.com) with CC to the Organizing Secretaries, ICPEP-4 on [isebnbrilko@sify.com](mailto:isebnbrilko@sify.com).

**Last date for submission of abstract is 30th September 2010.**

### **Oral presentation:**

Oral presentations will be of 15 minutes duration, including discussions. Overhead, 35mm projection, LCD/CD and other electronic multimedia facilities will be available for presentation.

### **Posters:**

The space given for the poster would be 1.5m (height) x 1.2m (width). Please ensure that your poster will fit into this space. All other details of design and format are up to the author(s), who will themselves display their posters at their respective poster sessions. Necessary materials for posting the displays will be provided by the organizers.

### **Full Papers:**

Full papers need not be submitted presently. If, and when, a decision is taken by the Organizing Committee regarding publication of the Proceedings of ICPEP-4, an International committee of Experts will scrutinize all presentations (oral/poster) made during sessions of the Conference and short list the individuals from whom the full papers will be invited for publication.

## Registration Charges

Registration fee payable per person for various categories of delegates is as follows;

Category:	Indian/SAARC Residents		Foreign National/NRIs	
	Up to 30/09/2010	After 30/09/2010	Up to 30/09/2010	After 30/09/2010
Member of ISEB	Rs. 2500	Rs. 3500	US \$ 350	US \$ 400
Non Member	Rs. 3000	Rs. 4000	US \$ 400	US \$ 450
Students*	Rs. 1500	Rs. 2500	US \$ 150	US \$ 200
Accompanying person	Rs. 1500	Rs. 2500	US \$ 175	US \$ 225

\*Post-Docs, RAs, SRFs, JRFs, Project Fellows, Project Assistants, and those in employment, are not eligible for student category.

Delegates from SAARC countries (Afghanistan, Bangladesh, Bhutan, India, Maldives, Nepal, Pakistan, Sri Lanka) can pay either in Indian currency or US \$.

(Note: The registration fee does not include hotel, boarding and lodging charges)

### Mode of Payment

Registration fee and other charges are to be paid by Bank Draft drawn in favour of "International Society of Environmental Botanists, Lucknow, India Account No. **10863773327**" payable at the State Bank of India, NBRI Branch, Lucknow.

Overseas delegates can also remit by electronic transfer using SWIFT Code **SBININBB157** payable to **International Society of Environmental Botanists Lucknow** A/c. No. **10863773327** at State Bank of India, NBRI Branch, Lucknow.

Cheques/credit cards will not be accepted

### Accommodation

Lucknow has several 3-5 star hotels of international standards as well as many good economy/budget hotels. Delegates may arrange their own accommodation.

A limited accommodation (2/3 person per room) may also be available in the guest houses/ hostels of local R & D institutes, details of which will be provided in next circular.

To facilitate hotel/tour bookings etc a conference travel agent has been appointed. For all your travel, local tours and hotel accommodation requirements/queries etc. please contact the authorized travel agent of the conference.

### Authorized Travel Agent of the Conference

Mr. S. Banerji,  
Branch Manager

**R J Trade-Wings (Pvt.) Ltd.,**  
110 Shalimar Square (First Floor),  
B.N. Road, Lalbagh,  
Lucknow-226001, India.

**Tel:** +91-522-2612099, +91-522-2285194; **Fax:** +91-522-2285194, +91-522-2626591  
**Mobile:** +91-9335911433; **E-mail:** [rjtwlko@yahoo.com](mailto:rjtwlko@yahoo.com)

### Visa for foreign delegates

Before planning your journey Please contact Indian Embassy/Consulate/High Commission in your country regarding the visa requirements.

# Organizing Committees

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(Director NBRI & IITR, and President ISEB)

## **Dr. K.J. Ahmad & Dr. R.D. Tripathi**

Organizing secretaries

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### Convener:

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Ms. Kanti Srivastava (Convener)

**Registration Form**  
**Fourth International Conference on**  
**Plants & Environmental Pollution (ICPEP-4)**  
**Organised by**  
**National Botanical Research Institute**  
**International Society of Environmental Botanists, Lucknow (India)**

Please type or fill in clearly in block letters and tick in the box (☐) wherever applicable.

Please attach  
recent passport  
size photograph.

To: **The Organising Secretaries, (ICPEP-4)**  
**International Society of Environmental Botanists**  
**National Botanical Research Institute**  
**Rana Pratap Marg, Lucknow-226001 (India)**

Dear Sir/Madam

I wish to attend the Fourth International Conference on Plants & Environmental Pollution (ICPEP-4) and am submitting the relevant details as below;

**Title/Salutation:** (Mr. / Ms. / Mrs. / Miss / Dr. / Prof. / Er. Etc.)

**Sex:** ☐M / ☐F

**First Name:**

**Middle Name:**

**Last Name/Surname:**

**Designation (if any):**

**Organisation/Affiliation (if any):**

**Mailing Address:**

**City, State, Postal Code:**

**Country:**

**Phone with full dialing code:**

**FAX with full dialing code:**

**E-mail:**

- ☐ I am a Foreign National/NRI and my passport details are as below;

**Nationality:**

**Passport Number:**

**Issued on:**

**Valid Till:**

**Issuing Authority:**

**Place of Issue:**

- ☐ I will be accompanied by following Persons:

(Please give full name. Foreign Nationals/NRIs to please also give full passport details as above. If needed attach duly signed extra sheet.)

1.

2.

3.

- ☐ I intend to attend the Conference and am submitting/will submit the abstract of my paper.

- ☐ I intend to attend the Conference without submitting a Paper.

- ☐ I am paying herewith the Registration Charges of Rs./US Dollars .....  
..... (Pl write the amount in figures & in words).

- ☐ The payment is being made by

☐ Electronic transfer ☐ Wire transfer ☐ Telegraphic transfer ☐ Draft No.....  
dated ..... through/drawn on..... (Name of Bank)

- ☐ I am paying/will pay concessional Registration fee before 30 September 2010.

- ☐ I will pay full registration fee on arrival, at the Registration Counter.

**Date:**

**Signature**

**Submission of this form by E-mail/FAX should be followed by signed hard copy by post.**

Pl. contact organizers, if confirmation of receipt of form is not received within 15 working days of submission.

**Phone:** +91-522-2297821 (Direct) +91-522-2205831 to 35 (PBX) extn. 821 • **Fax:** +91-522-2205836/2205839

**E-mails:** [isebnbrilko@sify.com](mailto:isebnbrilko@sify.com) / [isebmail@gmail.com](mailto:isebmail@gmail.com) • **Web Site:** <http://isebindia.com>