Focal theme: Climate Change and Biodiversity

4th INDIAN BIODIVERSITY CONGRESS

10-12 March 2017
Pondicherry University | Puducherry
“Biodiversity” is defined as the variety of all forms of life on earth, including plants, animals, micro-organisms, and their genetic variability and the ecosystem they belong. It is considered at three main levels, they are genetic diversity, species diversity and ecosystem diversity. There are various habitats, biotic communities and ecological processes in the biosphere. It is essential to preserve biodiversity as it is vital in a number of ways, contribution to our material well-being through utilitarian values, maintaining the integrity of the environment through CO₂/O₂ balance, regulation of biogeochemical cycle, absorption and breakdown of man made pollutants and waste materials through decomposition, regulation of world climate and environment protective services acting as indicators of the environmental changes and promoting the aesthetic value of the natural environment. Despite the benefits from biodiversity, today’s threats to species and ecosystems are greatest recorded in recent history. Virtually all factors of a perfectly bio diverse system are hindered and hampered by human mismanagement and intervention on biological resources. Indian Biodiversity Congress is a platform which takes up these issues and discusses it before concerned policy makers to bring in a much needed change to preserve the natural wealth bestowed on us.

Conservation of biological diversity and sustainable use of its components came into the limelight in 1992 (Earth Submmit at Rio de Janeiro). In 1993, UNEP identified conservation of biodiversity as a priority area, hence there was a need to get the legal mandate for conservation of world resources. There were negotiations for a legally binding instrument to address biological diversity and its loss to enhance fairness and equity in sharing of the benefits of biodiversity. The link between climate change and biodiversity has long been established. Although throughout Earth’s history the climate has always changed with origin and extinction of species and ecosystem, rapid climate change affects ecosystems and species ability to adapt and so biodiversity loss increases.

As a mega-biodiversity country, India has got commitment in playing a global leadership in conservation and sustainable use of biodiversity in the present global scenario of climate change. On this background, the focal theme of 4th Indian Biodiversity Congress 2017 is “Climate Change and Biodiversity” with 12 other subthemes, which were found to be appropriate in the present day context. The 4th IBC is scheduled at Pondicherry University, Puducherry, in the eastern coastal town during March 10-12 2017, with a National Seminar, Biodiversity Expo, Civil Society Meet, Children’s Conclave on Biodiversity, National Photography Competition and Documentary Film Festival.

We, on behalf of organizing committee of the 4th Indian Biodiversity Congress, welcome you to Puducherry and extend our sincere thanks for your continued support.

Dear Friend,
Greetings from the organizing committee of 4th Indian Biodiversity Congress!

Dr. Vandana Shiva
Chairperson IBC

Dr. G. G. Gangadaran
Vice-Chairman BIC 2017

Prof. Anisa Bashir Khan
Chairperson IBC 2017

Dr. P. N. Krishnan
Secretary General IBC 2017

Dr. S. Jayakumar
Organizing Secretary IBC 2017

Dr. S. Aromougame
Chief Co-ordinator IBC 2017

Chairperson IBC

President, CISSA

[Officiating], Pondicherry University

Secretary-General IBC 2017
The Indian Biodiversity Congress (IBC) was launched in the International Year of Biodiversity (2010) at Thiruvananthapuram, Kerala as a first national initiative towards creating awareness on biodiversity and environmental education and involved in forwarding policy suggestions for conservation and sustainable development.

The first IBC (IBC 2010) was organised in collaboration with Kerala State Biodiversity Board and University of Kerala. The Second IBC (IBC 2012) was held at Indian Institute of Science, Centre for Ecological Sciences (IISc), Bengaluru in collaboration with Institute of Ayurveda and Integrative Medicine (I-AIM) and Government of Karnataka.

The third Indian Biodiversity Congress (IBC 2014) was organized at SRM University, Chennai, a major cultural, economic and educational centre in the country during December 2014, in collaboration with CP Ramaswamy Environmental Education Centre (CPREEC), Chennai, a Centre of Excellence of the Ministry of Environment & Forests, Govt.of India, established jointly by the Ministry and the C.P. RamaswamiAiyar Foundation. IBC has now become a regular biennial event in India, with an array of programmes attached to it including Seminars, Exhibition, Workshops, National Photography Exhibition, Civil Society Meet, Documentary Film Festival and Children’s Biodiversity Conclave, besides a series of satellite and side events.

The UN General Assembly declared the period 2011-2020 as United Nations Decade on Biodiversity to promote the implementation of a strategic plan on biodiversity and its overall vision of living in harmony with nature. There is a better realisation now that sustainable development for our growing human family depends on biological diversity. The vital goods and services it offers forms the key stone for preserving and properly managing its richness for the current and future generations. It is also a period in which the government has to take concerted efforts to achieve “Aichi Target” or the 2011-2020 Strategic Plan of the Convention on Biological Diversity for addressing the underlying causes of biodiversity loss, reduce the pressures on biodiversity, safeguard biodiversity at all levels, enhance the benefits provided by biodiversity.

The fourth Indian Biodiversity Congress (IBC 2017) is being organised at Pondicherry University, Puducherry from 10 to 12 March 2017. Focal theme for seminar is “Climate Change and Biodiversity”. It is now widely recognised that climate change and biodiversity are interconnected. The earth climate is changing rapidly and the impacts are already being felt on biodiversity and wildlife habitats across the planet. Though biodiversity is affected by climate change with negative consequences of human well-being but through the ecosystem services it supports, also makes an important contribution to both climate change mitigation and adaptation. Specific biodiversity and climate change related measures and targets need to be integrated on biodiversity conservation and sustainable utilisation. Societies need to develop and implement appropriate strategies to risk associated with changing climate to ensure that the changing climate resources are appropriately exploited and that the adverse impacts are minimised.

**Highlights of IBC 2017**

- National Seminar on the focal theme - Climate Change and Biodiversity and 12 other sub-themes.
- Plenary and keynote lectures by eminent scholars in the field.
- 1000 delegates from all over India.
- Indian Biodiversity Expo
- Participation by R & D centers, NGOs, Corporates and State Biodiversity Boards.
- NGO meet highlighting inclusive action for biodiversity conservation.
- All India Photography Competition on Climate Change, Livelihood and Biodiversity.
- Documentary Film Festival.
- Children’s Conclave.

**Participation**

Members of Academic and Research Community, Civil Society, Community Members, Planners, Policy Makers, Students, Corporates, etc.
FOCAL THEME: CLIMATE CHANGE AND BIODIVERSITY

Sub themes:

1. Biodiversity characterisation and documentation (survey, taxonomic studies in different groups, characterisation of specific groups and to overcome taxonomic impediment, innovations, DNA barcoding, databases, flora, fauna and microbial biodiversity etc).


3. Biodiversity of Puthucherry (Plant, animal, microbial biodiversity etc).

4. Agro-biodiversity and poverty alleviation (indigenous cultivars, underutilized legumes, fruits, tubers and vegetables for food, nutritional security and food safety).

5. Ecosystem services and development (environmental services by biodiversity, eco-economics and social implications, responsible tourism).

6. Livestock biodiversity (Documentation, evaluation and characterization, climate change and adaptability).

7. Biodiversity conservation and sustainable utilization through technology (Biodiversity informatics, in-situ and ex-situ conservation strategies, modern techniques both in science and engineering for conservation and sustainable use of biodiversity, GIS, GPS, remote sensing, bioprospecting, product development and biomas & energy).

8. Medicinal plant conservation and sustainable utilization (Documentation, agro-technology development, multiplication, cultivation and product development etc).

9. Biodiversity education & extension (Awareness campaigns, communication techniques related to biodiversity, success cases at grass root level, role of NGOs, People's participation in Biodiversity Management Committees).

10. Culture, indigenous technical knowledge and local traditional practices related to biodiversity. Biodiversity linked to genetic resources associated traditional knowledge and cultural expressions.


12. Urban landscaping (Documentation and case studies related to urban biodiversity, benefits, role of landscaping and planning to conserve urban biodiversity).

Call for papers

The Congress includes keynote addresses, plenary lectures and oral/poster presentations. The focal theme will have only invited presentations and panel discussion by experts. Papers can be submitted for all the other themes. Oral presentations of contributed papers are limited to 10 minutes including discussion.

Though the presenters can opt for oral and poster presentations and the theme, the review committee will decide the mode and theme of presentation. The abstract(s) should be submitted for both forms of presentations. The number of abstract per presenting author is limited to one in each theme.

All meeting rooms are equipped with LCD projectors and Windows-based PCs. Presentations can be saved on a CD-ROM disk or a USB memory stick. Please test your presentation and bring a backup. Presenters must use the host computers for PowerPoint presentations.

Abstract

The abstract(s) should not have more than 500 words and should be uploaded through the website (www.indianbiodiversity.co.in) on or before 15 January 2017. The following information may kindly be noted while preparing the abstract:

- The title of the paper centered with bold capital letters (16 font Times New Roman).
- Name of the author(s) centered in normal letters (12 font Times New Roman).
- Address(es) of the author(s) with pin code, phone and fax numbers and e-mail. The name of the corresponding and presenting authors should be specifically mentioned (12 font Times New Roman - normal).
- A 500 word abstract must contain precise information including brief introduction, methodology, highlights of results and conclusion (12 font Times New Roman - normal, justified).

At least one author should register by paying the required registration fee.

Best presentation award will be given under each theme.

Poster presentation

- Posters must be in portrait, DIN A0 format (84 cm wide x 119 cm high).
- Include the title and authors of the poster as listed in your abstract.
- Information on the poster should flow from left to right and from top to bottom.
- Keep your poster simple – avoid too much information, stick to two or three main points.
- Double space all text, using left justification.
- Use short sentences, simple words and bullets.

Submission of Full papers

The completed camera-ready paper should be received not later than 15 February 2017. This should include a cover page containing title, authors, address, affiliation, e-mail address, phone number, fax number and topic area of the paper. The second page should start with paper title, authors, abstract, keywords, introduction, materials and methods, results, discussion including conclusions and references. Paper should be on A4 (8.25” x 11”) or A5 (8.25” x 10.75”), using Times New Roman 12 point. The paper must not exceed 10 pages excluding references. The photographs and graphs should be of higher resolution (min. 300 dpi) for printing separate JPEG/TIFF images should be supplied. One hard copy and soft copy in CD should be submitted. The format for submitting full papers will be intimated to the authors on selection of the paper for presentation.
Proceedings
All accepted full length papers will be published as conference proceedings with ISBN.

Important deadlines:
Submission of abstracts:
- 15 January 2017
Communication of acceptance of papers:
- 25 January 2017
Submission of full papers:
- 15 February 2017

How to submit the abstract:
The paper may be submitted online through www.indianbiodiversity.co.in or email: biodiversitycongress@gmail.com.

Address for Communication
IBC Secretariat
Centre for Innovation in Science and Social Action (CISWA)
T.C. 16/852, USA -156, Udarasiromani Road,
Thiruvananthapuram, Kerala
Tel: 7015585661
Fax: 0471 2722725
Email: biodiversitycongress@gmail.com

Accommodation
The organizing committee will assist in booking accommodations on request and advance payment. The tariff rates of hotels and dormitories will be provided on request.

Accommodation

Indian Biodiversity Expo
10 to 13 March 2017

The Indian Biodiversity Expo (IBE 2017) will be held in conjunction with IBC 2017 and is an attempt to bring together the government and non-government organisations, academic and R&D organisations, communities and business group to showcase the rich heritage, wisdom and potentials of the biodiversity of India. The IBE 2017 is an attempt to enhance public awareness on the importance of conserving biodiversity, of the underlying threats to biodiversity, and of success stories in conservation, besides attempting to highlight the linkages of biodiversity to day to day life and livelihood of human species. It also will demonstrate how the government and communities are working to ensure its conservation and sustainable use now and in the future. In particular, the exhibition explores the multiple aspects of biodiversity contributing to human well-being and describes the direct and indirect factors contributing to biodiversity loss. The exhibition will also highlight the products and geographical indicators in the country related to biodiversity.

Focal Theme: Biodiversity and livelihood Sub Themes
- State biodiversity profiles- Exhibition on Biodiversity of various States of India (State Biodiversity Boards, forest, environment, tourism departments etc).
- Endangered and Threatened Species.
- Status of living on the edge- Exhibits of Rare, Endangered and Threatened Species.
- Biodiversity education- Exhibition of books, CDs and other educational resources.
- Exhibition on Invasive Alien species in India and their impacts.
- Green Business and Technologies- Exhibition by business group incorporating biodiversity conservation and green technologies for environment protection, eco-friendly products etc.
- Innovations- Showcasing of innovations in biodiversity conservation.
- Biodiversity Heritage and Natural History of Puducherry.
- Food Diversity of India- Traditional food courts.

Special pavilions
- Medicinal plant diversity, livelihood & health care
- Indigenous cattle diversity
- Jack fruit and other underutilised fruits
- Biodiversity heritage- Exhibition of the indigenous plant and animal genetic varieties (vegetables, cattle, birds, etc.)
- Ecosystem diversity- Panel exhibition on the ecosystem diversity of India.
- Living on the edge- Exhibits of Rare, Endangered and Threatened Species.
- Institutional Pavilions- Exhibition by the leading research centres, universities and other academic institutions, NGOs, commercial establishments, etc.
- Invasive- Exhibition on Invasive Alien species in India and their impacts.
- Biodiversity education- Exhibition of books, CDs and other educational resources.
- Green Business and Technologies- Exhibition by business group incorporating biodiversity conservation and green technologies for environment protection, eco-friendly products etc.
- Innovations- Showcasing of innovations in biodiversity conservation.
- Biodiversity Heritage and Natural History of Puducherry.
- Food Diversity of India- Traditional food courts.

Participants
National Biodiversity Authority and State Biodiversity Boards, Central and State Government departments, National Institutions such as Botanical Survey of India, Zoological Survey of India, ICAR institutions, CSIR institutions, Research and Development Centres etc, Universities and other Academic institutions, Non-governmental and Non-profit organisations, Business groups working for biodiversity conservation and marketers of products derived from biodiversity, Photographers and conservationists, Publishers & book marketers, Clubs and forums, Individual with their exhibits / collections, Corporates.

Mode of payment:
The payment should be made through bankers cheque / DD in the name of "Indian Biodiversity Congress" payable at Thiruvananthapuram (Kerala) or by bank transfer to:
Account Holder: Indian Biodiversity Congress
Bank: State Bank of Travancore
Branch: Vellayambalam branch, Thiruvananthapuram, Kerala

Branch code: 70308
Account No: 0729888565
IFSC Code: SBT R 072988565

Bank: State Bank of Travancore, Thiruvananthapuram (Kerala) or by bank transfer to
Account No: 67291769565
IFSC Code: SBT R 0000 308

Concession for bulk registration, please contact the organisers.
*Certificate from HoD or Guide is mandatory.

Accommodation

Registration

<table>
<thead>
<tr>
<th>Registration</th>
<th>Up to 15 Feb</th>
<th>16 Feb onwards &amp; Spot</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty/Scientist</td>
<td>2500</td>
<td>3000</td>
</tr>
<tr>
<td>NGOs</td>
<td>1500</td>
<td>2000</td>
</tr>
<tr>
<td>*Research students (With fellowship)</td>
<td>1500</td>
<td>2000</td>
</tr>
<tr>
<td>Research students (Without fellowship)</td>
<td>1000</td>
<td>1500</td>
</tr>
<tr>
<td>Post graduates &amp; Graduates</td>
<td>1000</td>
<td>1500</td>
</tr>
<tr>
<td>Accompanying person</td>
<td>1500</td>
<td>2000</td>
</tr>
</tbody>
</table>

Certification of HoD or Guide is mandatory.

Facilities
- Certificate from HoD or Guide is mandatory.
- Facilities for souvenirs, corporates, and other institutional pavilions.
- Invitations to participating organisations.
- Public relations and publicity in print media
- Country-wide broadcast media
- Other activities.
Civil Society Organizations (CSOs), including non-governmental organizations (NGOs), indigenous peoples organisations, social / people’s movements, professional associations and foundations, faith-based organizations, labour unions, and others, and totally committed individuals who are not part of any ‘system’, are critical actors in the conservation initiatives. Their involvement in discussions and policy making would definitely give proper directions to the future biodiversity conservation scenario of the country. Moreover, members of civil society organizations volunteer their time, skills, and expertise to development. In the recent environmental conservation history of the country, the role played by CSOs towards biodiversity conservation has a bright history. One day of IBC 2017 will be dedicated for the meet, while the members will also get the opportunity to attend IBC for all the days. The recommendations of Civil Society Meet will also form part of IBC recommendations.

Children’s Conclave on Biodiversity 12 March 2017 (For Puducherry School Students) The purpose of the Conclave is to make awareness on issues related with biodiversity and to encourage the children to take action in protecting and using these important resources wisely, as the young generation is the powerful force for the preservation of biodiversity. If the business-as-usual scenario prevails in the modern era of biodiversity loss, the status of our biodiversity wealth will be in jeopardy. As a large number of leading scientists and conservationists will attend IBC, the students will get an opportunity to interact with them and to learn from their experience. Selected projects under National Children’s Science Congress 2016 may get an opportunity to present their scientific project. Total number of participants is limited 150 and selection procedure will be intimated to all schools. Registration fee: Rs 100.

Children’s Conclave on Biodiversity 12 March 2017

Documentary Film Festival Nature and Biodiversity Documentary Film Festival will be organised during IBC 2017. The event will showcase some of the finest films made on the biodiversity richness of Planet Earth, our only home. Several films on Indian natural history will be an added attraction. Only selected best entries will be screened. For more details see the website www.indianbiodiversity.co.in

Photography Competition An All India Photography Competition and Exhibition on Biodiversity will be organized in connection with IBC 2017, with entries invited from all over India. The selected entries will be exhibited at the IBC venue.

[Selected entries will be exhibited at the IBC venue.]

Theme: Biodiversity of India/Climate change and biodiversity/Biodiversity and livelihoods. Download the entry form from www.indianbiodiversity.co.in

STALL BOOKING CHARGES

The stall booking charges in exhibition pavilion:

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<thead>
<tr>
<th>Type</th>
<th>Size</th>
<th>Charge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single stall 3m x 3m</td>
<td></td>
<td>Rs. 30,000*</td>
</tr>
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</table>

*10% discount if multiple stalls are booked.

Table Space - Rs. 10,000*

*15% service tax extra.

In table space display, company profiles and product catalogues only are allowed.

The registration form can be downloaded from www.indianbiodiversity.co.in

Civil Society Meet 11 March 2017

Civil Society Organizations (CSOs), including non-governmental organizations (NGOs), indigenous peoples organisations, social / people’s movements, professional associations and foundations, faith-based organizations, labour unions, and others, and totally committed individuals who are not part of any ‘system’, are critical actors in the conservation initiatives. Their involvement in discussions and policy making would definitely give proper directions to the future conservation paradigms and policy making. IBC desires to have partnership with CSOs and individuals committed to biodiversity conservation, as we believe that these partnerships are imperative to the success of the programme. Many CSOs have a proven capacity for broad-based mobilization and creating bottom-up demand that fosters responsive governance. Civil society advocacy can facilitate the participation of those very much concerned with conservation and sustainable utilization of biodiversity in the design and implementation of development policies and programmes. This can enhance the delivery of basic social and environmental services, which are very much essential for the future biodiversity conservation scenario of the country. Moreover, members of civil society organizations volunteer their time, skills, and expertise to development. In the recent environmental conservation history of the country, the role played by CSOs towards biodiversity conservation has a bright history. One day of IBC 2017 will be dedicated for the meet, while the members will also get the opportunity to attend IBC for all the days. The recommendations of Civil Society Meet will also form part of IBC recommendations.

The CSOs can join the entire meet for three days with a registration fee of Rs. 1,500. They can also present papers in IBC 2017.

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Photography Competition

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Theme: Biodiversity of India/Climate change and biodiversity/Biodiversity and livelihoods. Download the entry form from www.indianbiodiversity.co.in

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Organisers:
Centre for Innovation in Science & Social Action(CISSA) is a multi-disciplinary organization endowed with a think tank comprising of scientists and professionals from all walks of life, who provide foresighted guidance and orientation for its diverse feats of bridging science with the society. Biodiversity conservation, energy management, organic farming and good food movement are among the many such activities. Currently, CISSA is headquartered at Regional Centre for Expertise (RCE), Thiruvananthapuram, acknowledged by UN University. Among its recent highlights, is 31st Global Ayurveda Festival inaugurated by Hon. Prime Minister, Shri. Narendra Modi at Kochi in Kerala during February 19-20 attended by more than 4,000 delegates from 42 countries. www.cissa.co.in

Pondicherry University
Pondicherry University since its inception in 1985, continues to be a leading University situated in the southern part of the country and focused on both quality teaching and innovative research of high standards in a wide range of disciplines. Apart from doing research in frontier areas of their field of specializations, the faculty members of academic institutions of the country at UG, PG and Ph.D levels. The faculty of the Centre for Innovation in Science & Technology and Environment was started in 1993 after merging of the erstwhile Science & Technology and Environment cells functioning in the U.T. Administration. The Centre is the nodal agency for planning, promotion, co-ordination and overseeing the implementation of environmental policies, technology and programmes. The Department designs and implements policies and programmes to preserve, conserve and protection of Environment. The primary concerns of the department are implementation of policies and programmes relating to conservation of the natural resources, biodiversity and environment, and the prevention and abatement of pollution. While implementing these policies and programmes, the department is guiding for sustainable development and enhancement of human well-being. www.dste.puducherry.gov.in

DSTE Government of Puducherry
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Pondicherry Science forum
Pondicherry Science forum (PSF), was founded in 1985 by a number of professionals, teachers and other interested persons from many walks of life with the primary objective of Science Popularization. It has since evolved into a Peoples’ Science Movement with a clear mandate of shaping Science & Technology and ensuring its use to benefit the weaker sections of society. The PSF contributes to this goal by questioning power relationships embedded in science and technology and in the institutional structures that generate and put to use such knowledge. The PSF also contributes to this goal by contributing to the processes of building empowered and democratized institutional structures that help people to participate and make informed choices regarding the development and use of science and technology.

The PSF’s work is organized into three wings – Development, Science Communication and Women’s Empowerment and to carry these tasks out effectively it has two more institutional structures - the Centre for Ecology & Rural Development (CERD) and the SamamMakhalSuyasbarulyakam (Samam), both have considerable autonomy in their governance and in their functioning.

www.pondiuni.edu

Navdanya
Navdanya started by world-renowned scientist, author and environmentalist Dr. Vandana Shiva, is an organisation committed to the conservation of agricultural biodiversity with the participation of indigenous communities. Since 1987, the Navdanya programme has been saving seeds, promoting organic farming methods, raising awareness on the hazards of bio-safety, genetic engineering and bio-piracy, thereby defending people’s traditional food rights and food sovereignty in the face of globalization. Navdanya’s focus on collective, cumulative innovation embeds in indigenous knowledge has created a worldwide movement for the defence of the intellectuals rights of communities. www.navdanya.org

REGISTRATION FORM

Name (In block letters) Dr./Mr./Ms. .................................................................
Sex : Male Female Designation : ................................................................. Date of Birth : .................................................................
Address (For all communications) : ..........................................................................................................................
Tel. : .................................................................................................................... Mob : ....................................................................................................................
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10-12 March 2017
Pondicherry University, Puducherry
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