

**SYMPOSIUM ORGANISING COMMITTEE (SOC)**

T.V. Ramachandra	CES, CiSTUP & CST, Indian Institute of Science
N.V. Joshi	CES, Indian Institute of Science
M.D. Subashchandran	CES, Indian Institute of Science
C. Rajasekara Murthy	Environment Canada, Canada
Balasubramanian K	Commonwealth of Learning, Canada
H.N. Chanakya	CST & CiSTUP, Indian Institute of Science
Ramesh Goel	University of Utah
Mohan Kumar	KSCST & Civil Engineering, Indian Institute of Science
M Prithviraj	KSCST, Bangalore
A.R. Shivakumar	KSCST, Bangalore
Shivakumar J. Nyamathi	German Alumni Water Network & UVCE, Bangalore University
Harish Bhat	CES, Indian Institute of Science
Antony P U	Christ University, Bangalore
Alakananda	CES, Indian Institute of Science
M. A. Khan	K.K. High School, Varthur
Snehalatha V. Kumar	Vidyaniketan Public School, Ullal, Bangalore

**Queries regarding the Programme/Exhibition, should be addressed to****Dr. T.V. Ramachandra**, Convener, Lake 2010

Energy &amp; Wetlands Research Group

Centre for Ecological Sciences, Indian Institute of Science

Bangalore 560 012, India

Tel: 91-080- 22933099 / 22932786 / 2293 2506 / 23600985 (Extn: 215/232)

Fax: 91-080- 23601428 / 23600683/ 23600085 [CES-TVRR]

**E mail:** lake2010@ces.iisc.ernet.in, cestvr@ces.iisc.ernet.in, energy@ces.iisc.ernet.in**Web:** <http://ces.iisc.ernet.in/energy>, <http://ces.iisc.ernet.in/biodiversity>

## Lake2010: Wetlands, Biodiversity and Climate Change

22<sup>nd</sup>-24<sup>th</sup> December 2010

**Venue: Satish Dhawan Auditorium, Indian Institute of Science, Bangalore**

**ORGANISED BY**

- Energy & Wetlands Research Group, Centre for Ecological Sciences (CES), Indian Institute of Science (IISc), Bangalore
- Centre for *infrastructure*, Sustainable Transportation and Urban Planning (CiSTUP), IISc
- Centre for Sustainable Technologies (CST), Indian Institute of Science
- Commonwealth of Learning (COL), Canada
- Karnataka State Council for Science and Technology (KSCST), Bangalore
- Karnataka Environment Research Foundation [KERF], Bangalore
- K.K. High School, Varthur, Bangalore
- Vidyaniketan Public School, Ullal, Bangalore 560 056

**DATES TO REMEMBER**

Early Bird Registration	<b>10<sup>th</sup> September 2010</b>
Submission of Abstract and Registration Form	<b>8<sup>th</sup> October 2010</b>
Acceptance of Abstract (on web)	<b>15<sup>th</sup> October 2010</b>
Receipt of Full Length Papers	<b>15<sup>th</sup> November 2010</b>
Notification of Acceptance of Papers (on web)	<b>22<sup>nd</sup> November 2010</b>
Conference	<b>22-24<sup>th</sup> December 2010</b>

Symposium focusing on lakes popularly known as “**Lake symposium**” was initiated by the Energy & Wetlands Research Group at Centre for Ecological Sciences, Indian Institute of Science, Bangalore in the year 1998. The theme was broadened in 2000 (Lake 2000) with a wider participation of organisations such as Karnataka Environment Research Foundation, etc. The basic idea of the symposium was to bring out the trends in ecosystem conservation, restoration and management including the hydrological, bio-physical, people’s participation and the role of non-governmental, educational and the governmental organizations and the future research needs. Lake 2010 will be the 7<sup>th</sup> Biennial Lake Conference would focus on “**Wetlands, Biodiversity and Climate Change**” to commemorate the International Year of Biodiversity. The United Nations has declared **year 2010** as the **International Year of Biodiversity** and this provides a unique opportunity to increase understanding of the vital role that biodiversity plays in sustaining life on Earth.

Wetland ecosystems are cradles of biological diversity, providing the water and primary productivity upon which countless species of plants and animals depend for survival. The degradation of these vital ecosystems is linked to continuing problems of land cover changes, deforestation, habitat fragmentation, pollution, indiscriminate disposal of liquid and solid wastes, and issues related to economic productivity and ecological security. The structural changes in the ecosystem due to land cover changes, will influence the functional aspects namely hydrology, bio-geo chemical cycles and nutrient cycling, which are evident in many regions in the form of conversion of perennial streams to seasonal and disappearance of water bodies leading to a serious water crisis. There is growing evidence that biological diversity will be severely threatened by rapid climate change. Also, hydrological changes could be the dominant effect of climate change, as snowmelt increases, as evaporation rates increase and as droughts, storms and floods intensify. Much of the hydrological changes will be reflected in changes in freshwater ecosystems including most of the wetland areas. The biological impacts include dwindling of the biodiversity, habitat damage and loss of spawning grounds of aquatic organisms, reduction in inland fisheries resources and loss of vegetation. Conservation of natural resources through sustainable ecosystem management and development is the key to our secured future. Formulation and implementation of action plans that best conserve aquatic resources requires an understanding of issues, concerns, and threats to water resources are identified, and cause and effect relationships. Approaches towards this direction include:

- Fostering participation of all stakeholders to ensure that individuals and organizations are provided an opportunity to participate in the development of aquatic resources conservation activities;
- Encouraging intergovernmental initiatives through partnerships between communities and non-profit organizations;
- Identifying significant natural, recreational, economic, cultural, scenic resources and aquatic ecosystem values
- Identifying potential threats to aquatic resources and values
- Recommending policies and actions that can be undertaken to restore, maintain or enhance aquatic resources.

In this backdrop, Lake 2010 focussing on wetlands, biodiversity and climate change would bring in awareness among school students, teachers and public. This also provides a forum for researchers, technologists, economists, sociologists and others to meet and discuss water related issues. This symposium will:

- introduce the major types of ecosystems - characteristics, diversity and importance;
- describe the main physical and biological processes important in several major types of ecosystems, and their consequences for community structure and function;
- determine how the process and institutional innovations are embedded in the bio-physical context and characteristics of water, and how the technologies also get shaped by and operate in as part of social and institutional processes and contexts.

### SCOPE

Lake 2010 would focus on “Wetlands, Biodiversity and Climate Change” to bring in awareness among school students, teachers, researchers, decision makers and public. This would provide a platform for interaction among researchers, policy makers, academic, researchers and NGOs and address the issues related to wetlands and biodiversity in an era of climate change. This would help in developing a stronger network among experts and institutions in order to achieve modalities for efficient strategies for conservation and management of fragile ecosystems. As a part of the symposium it has been decided to have paper presentations and presentation of poster from school and college students. The schedule of the programme is as follows:

Date	Morning Session	Afternoon Session
22-Dec-2010	9:30 am to 10:00 am—Inauguration. 10:00 am to 11:00 am—Guest Lecture. 11:00 am to 1:30 pm—Paper Presentation by key speakers.	Theme: Wetlands Conservation and Management 2:00 pm to 3:00 pm—Expert Lecture. 3.00 pm to 6:00 pm— Session on climate change.
23-Dec-2010	Biodiversity 9:30 am to 10:30 am—Expert Lecture. 10:30 am to 1:30 pm—Paper Presentation by college and university faculty and students	Climate Change 2:00 pm to 2:45 pm—Expert Lecture. 2:45 pm to 6:00 pm—Paper Presentation by college and university faculty and students
24-Dec-2010	9:30 am to 1:30 pm—Lectures by school and college students and teachers, invited lectures.	2:00 pm to 3:00 pm—Evaluation of Posters 2:00 pm to 4:00 pm— Panel discussion 4.00 pm to 6.00 pm – Concluding session, Valedictory Programme.

### TOPICS

Papers are invited on the following themes from researchers, planners, development managers, economists and social scientists, school and college students (VIII – XII students), school and college teachers.. Topics for Paper Presentation/ Poster in Lake 2010:

1. Biodiversity – Terrestrial, Aquatic
2. Climate change and biodiversity
3. Integrated Ecological Carrying capacity
4. Conservation, Restoration and Management of Ecosystems
5. Coastal ecosystems: Biodiversity, Livelihood aspects, Conservation
6. Lakes, rivers, estuaries: water quality, biotic resources, sustainable management.
7. Environment—Monitoring and Management.
8. Urbanisation—Impacts on ecosystems.
9. Impact of climate change on wetlands
10. Climate change and natural disasters
11. Energy, Ecology and Environment, Environmental Education
12. Open source GIS, Application of Geoinformatics in conservation and management
13. Solid Waste Management—Approaches (at home, city, State).

There are **three awards in each category**— High School (VIII, IX, X): College (XI, XII and UG): Teachers. Awards for the best paper presentation would include a Certificate and a Memento. The best posters would be similarly, awarded.

**REGISTRATION FEE**

The organising committee has decided to waive registration fee to students and teachers (school/college/UG) whose papers are accepted for presentation in the technical session. The registration fee for individuals from industry, government and those who wish to participate in the symposium are required to pay Rs.1500 (and for accompanying person: Rs.500) along with registration form by demand draft, drawn in favour of "Lake 2010, Indian Institute of Science" payable at Bangalore. The registration fee would include registration kit, working lunch and tea during the symposium. Accompanying person will have access to all technical sessions and hospitality as per delegates except registration kit.

**EXHIBITION**

An exhibition of software and hardware related to Restoration and Monitoring technologies, Water quality analysis, Geographic Information System (GIS), Global Positioning System (GPS), Remote sensing, Image processing and Cartography, as well as products and services of other organizations and agencies working in the area related to the theme of the conference, will be organised. Organisations / Agencies can participate in the exhibition on payment of fee of Rs.15, 000. Registered agencies would be allowed to make 15 minutes presentation. Interested agencies may contact Dr. T.V. Ramachandra and remit the fee through DD drawn in favour of "*Lake 2010, Indian Institute of Science*" payable at Bangalore

**GUIDELINES FOR PAPER PREPERATION**

The full text paper (e-version preferably in a CD and one hard copy) formatted to A4 (210 mm x 297 mm) size, after having been scrutinized and accepted, will be printed as received, by offset process. Therefore, the text of the paper in English must confirm strictly to the following requirements and be free from errors.

Top/bottom margin	25mm (on first page 35mm)
Left/right margin	25mm
Typing area	160 mm x 247 mm (including folio), single space single column
Total pages	8-10 pages including figures, tables, photographs, etc., if any.
Font type	Helvetica/Times Roman/Courier
Title	14 point BOLD CAPITALS
Author's Name	12 point Bold Upper-Lower (Do not prefix name with/Ms./Dr./Prof.)
Affiliation (designation, organisation and place)	11 point italics
Main headings	10 point BOLD CAPITALS
Subheadings	10 point Bold Upper-Lower
Text	10 point normal
Print	Laser Print or letter quality

The paper title, name(s) of author(s), affiliation and address, centre justified, should be typed in a space of 50 mm from the top margin on the first page. The paper should begin with a synopsis of not more than 200 words describing the aim(s) of the work, methods, results obtained and conclusions. Type the headings, subheadings and paragraphs aligned with the left-hand margin. Text justified on both sides is preferred. Use double space between paragraphs, and between section headings/subheadings and paragraphs. Do not number paragraphs, but number section and sub-sectional headings except synopsis, in conformity with established convention. The manuscript should be prepared by using MS Word (suitable for Windows). Figures should be drawn in black Indian Ink on translucent paper or acetate material (Gateway Tissue) with lettering of appropriate size using stencils. The figures should be placed nearest to the first reference in the text. Photographs on glossy paper may be included, if absolutely necessary. The authors must send brief bio-data (100 words) and the recommendations that they would like to be considered as a part of the conference based on their presentations.

**REGISTRATION**

- Name \_\_\_\_\_
- Designation \_\_\_\_\_
- Address \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- Telephone/Fax Nos. \_\_\_\_\_
- E.Mail \_\_\_\_\_
- Telegraphic Address \_\_\_\_\_
- Presenting Paper Yes / No  
Poster Yes / No
- Title of the paper

Enclosed: Abstract / Paper (e –version and hard copy):  
(Please ensure CD is virus free)

9. Accommodation Required: Yes / No if yes: Hotel / Hoysala House (IISc campus)

10. Arrival at Bangalore Date \_\_\_\_\_ and Time \_\_\_\_\_

Details of Registration fee: Amount \_\_\_\_\_ Details of Demand draft: \_\_\_\_\_

Details: Train / Flight \_\_\_\_\_ Place and Date: \_\_\_\_\_

Date: \_\_\_\_\_ Place: \_\_\_\_\_

Signature

**ACCOMMODATION AND TRAVEL**

Key speakers and invited delegates would be accommodated at IISc Main guest house. Delegates whose paper is accepted for technical session will be accommodated at Hoysala house / hotel on first come first serve basis. Delegates requiring accommodation need to mention the requirement in the registration form. Room rent is required to be paid by the delegates as per the tariff in Hoysala house or hotel. All delegates will have to make their own travel arrangements.