

ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

Shobhavan Campus, Mijar, Moodbidri - 574225

(Affiliated to Visvesvaraya Technological University, Belagavi)

Approved by AICTE, New Delhi & Recognized by Government of Karnataka)



ALVA'S
Education Foundation®

A Report on
Activities under MOU at
“EWRG, Centre for Ecological Sciences,
IISC, Bangalore”



भारतीय विज्ञान संस्थान

INDEX

Sl. No.	Particulars
1	EWRG MOU
2	Report on Short Term Course Foss4G
3	Report on Technical Skill Enhancement Training
4	Report on Lake Conference -2018
5	Report on Lake Conference -2016



ALVA'S COLLEGE

(Accredited by NAAC)

[A Unit of Alva's Education Foundation (R.)]

Sundari Ananda Alva Campus, Vidyagiri, MOODUBIDIRE - 574 227

Ph : 08258 - 236531, Fax : 08258 - 237341, Email : alvascollegemoodbidri@gmail.com, principal@alvascollege.com

8Set

Ref :

Date : 13.10.2017

MEMORANDUM OF UNDERSTANDING (MoU)

Between

Alva's College Moodubidire (Alva's Education Foundation, Moodubidire)

and

**EWRG, Centre for Ecological Sciences, Indian Institute of Science,
Bangalore**

The mutually accepted MoU Between Alva's College Moodubidire (Here after AEF) and Centre for Ecological Sciences, Indian institute of Science, (IISc) ,Bangalore shall be executed from 13th October 2017

The aforesaid institutions are here after referred individually as institute and collectively as institutes, enter into a memorandum of understanding aiming at promoting research and academic development between these two institutes.

1. Objectives of MoU

- Establishment of research collaboration between Alva's College of AEF and IISc
- Providing advice for promoting research activities in Alva's College of AEF
- Conducting and supporting regular academic oriented activities
- Promoting scientific temperament among the School children of AEF

2. Technical areas of collaboration:

- To facilitate the research activities of the students and the staff members either for writing research proposal/s or to use sophisticated /advanced instrument/s available at Centre for Ecological Sciences IISc and also to assist to publish research outcomes /findings in reputed (ISBN/ISSN/any International /National standard) Journals.
- Providing necessary support /help in organizing Workshops/Conferences/Faculty Development Programme/Skill development etc programme for students and staff.

13/10/2017.

13/10/2017

- c. To provide summer training programme for selected students/staff at Centre for Ecological Sciences IISc

3. Proposed modes of collaboration

The Mode of Collaboration between AEF and Centre for Ecological Sciences IISc are as follows:

1. Cooperation and promotion of Education and Research in the areas of mutual interest.
2. If any other mode of interaction is proposed by either side, the mode proposed will be scrutinised initially by both agreed institutes for acceptance by looking at availability of sources for implementation. For every new activity, a specific agreement will be made for the transparency

4. Terms and Conditions

- a. For workshops and conferences financial arrangements will be made based as reflected in the agreement.
- b. MoU may be amended, renewed, and terminated by mutual written agreement of institute at any time.
- c. Either Institute shall have the right to terminate this MoU upon 30 days prior written notice to the other Institute.

5. Duration of MoU

This MoU, unless extended by mutual written consent of the Institutes, shall expire on 13th Oct 2022 from the effective date specified in the opening paragraph. However, on review, the MoU shall be extended for another five years on mutual consent.

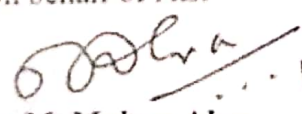
6. Intellectual Property Rights:

The Intellectual Property Rights (IPR) that arise as a result of joint research and collaborative activity, under the agreement will be worked the case to case basis and will be consistent with officially laid down IPR policies of two institutes.

7. Signed in Duplicate

This MoU is executed in duplicate with each copy being an official version and having equal legal validity. By signing below, the Institutes, acting by their duly authorized officers, have caused this Memorandum of Understanding to be executed, from the effective day and year as mentioned above.

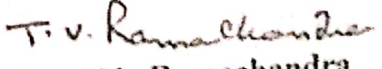
On behalf of AEF


Dr. M. Mohan Alva

Chairman

Alva's Education Foundation
Moodubidire

On behalf of IISc.


Dr. T.V. Ramachandra

(Center for Ecological sciences)
Indian Institute of Science
Bangalore

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Report on

“Short Term Course FOSS4G”



**SHORT TERM COURSE ON FOSS4G FOR NATURAL RESOURCE
MANAGEMENT 22nd to 25th Aug 2019**

REGARDING COURSE:

Introduction: The course is being offered under Alva's- EWRG, IISc Research initiative for capacity building. The demand for spatial-temporal data analysis has gained momentum with the government's push for digital India. There is lack of professionals in these disciplines, particularly of those with a vast knowledge of the practical utilization of these technologies. This necessitates knowledge augmentation of in-service professionals particularly of teaching faculty in colleges and universities.

COURSE OBJECTIVE:

Knowledge augmentation (advancements in spatial informatics, remote sensing data analysis, modeling and Geo Visualization) for in-service professionals

PHOTOGRAPHS OF THE EVENT



**Inauguration of the course on 22.08.19 By Dr. T. V. Ramachandra, IISc Bangalore,
Sri. Vivek Alva Managing Trustee Alva's Education Foundation,
Dr. H Ajith Hebbar HOD Civil Engineering Department and
Prof. Veena D Savanth, Coordinator**



ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY
Shobhavana Campus, Mijar, Moodbidri, D.K - 574225
Phone: 08258-262725, Fax: 08258-262726
DEPARTMENT OF CIVIL ENGINEERING



Inaugural Function of Short term Course and Key Note address by Dr. T. V. Ramachandra, IISc Bangalore



Sri. Vivek Alva, Managing Trustee, Alva's Education Foundation, is addressing the audience

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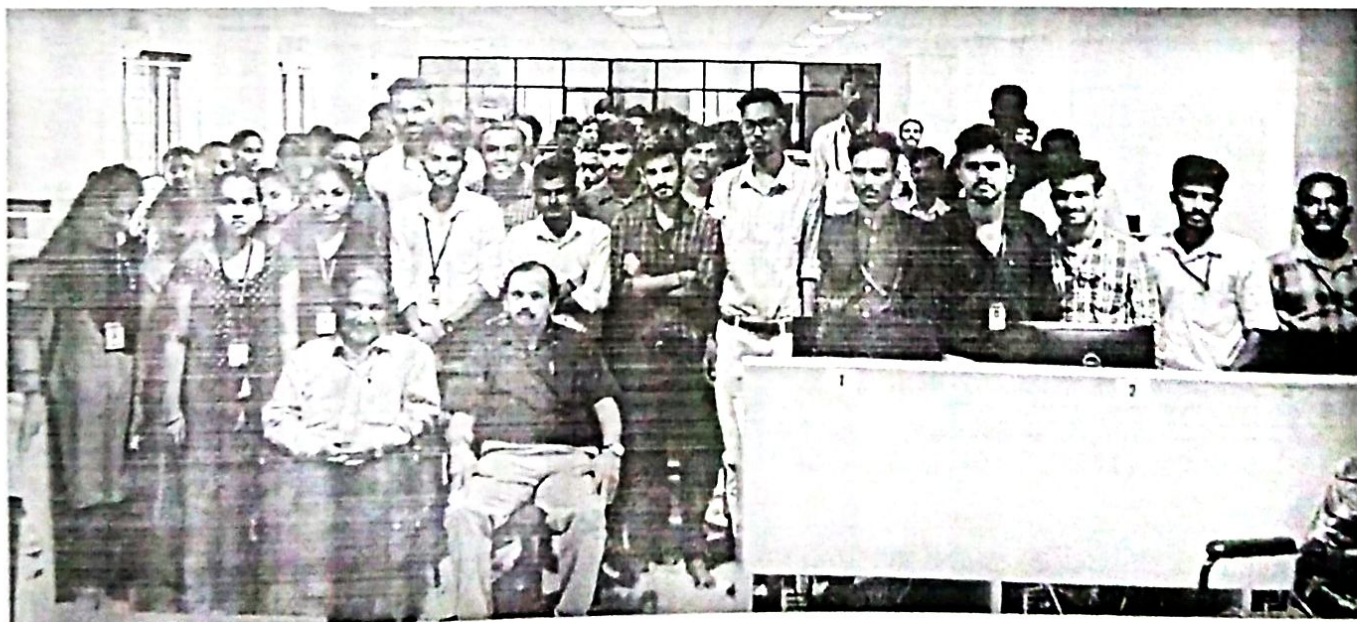
Report on

“Technical Skill Enhancement Training”

About the Technical Talk :

Dr. T V Ramachandra Scientist, EWG IISc Bangalore has given a technical talk on *Introduction to GIS and use of Geospatial data for natural resources Management* for final year Civil Engineering Students during the Boot Camp (July-Aug 2019) held . He explained the use of GIS as a tool for an Engineer to analyze and to find a solution for a particular problems.

Time	Date
	20 July 2019
	Session by
12.30 to 6 pm	Dr. T V Ramachandra
Student Count	Topic
78 (Final Year Civil Engg. Students)	Technical Skill Enhancement Training
	Geo spatial Applications



Dr. T V Ramachandra with Student Participants

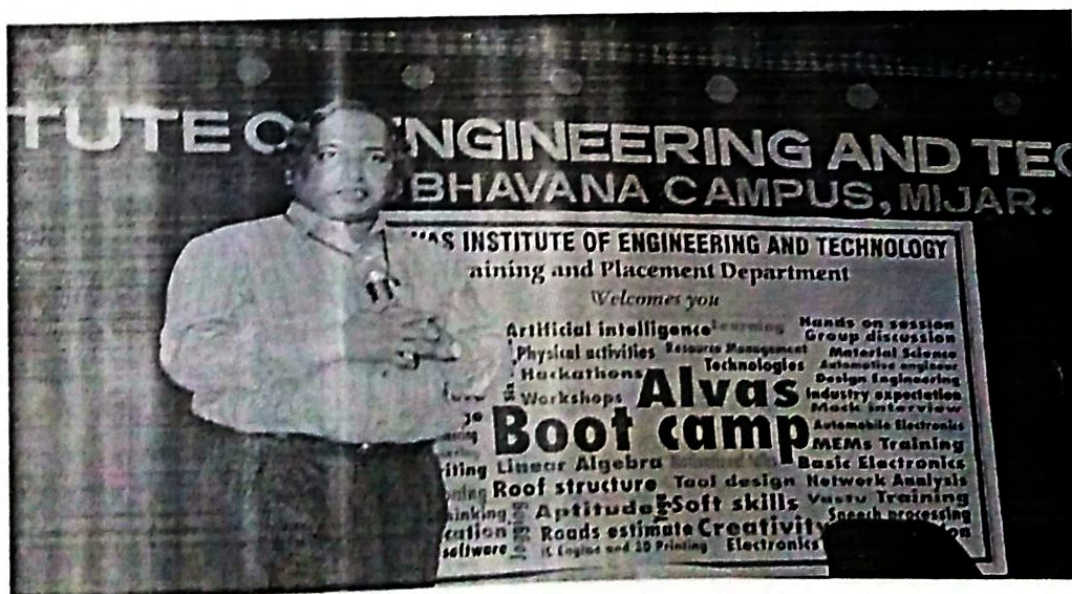
About the Talk :

Date: 20th July 2019 /Resource Person : Dr. T. V. Ramachandra

Scientist, Indian Institute of Science, Bangalore.

Topic: Western Ghats and Engineering

"Peace and humanity are the two utmost important things in human life. Those who have immersed themselves in technology, have forgotten the values of humanity and are becoming more selfish" said Dr. T. V. Ramachandran, a scientist from IISc Bangalore, while addressing participants on the third-day of Alva's Boot Camp. He said that human activities are the main cause for environmental deterioration. Instead, we should take up the responsibility of nurturing the nature around us. At present, many states in the country have been facing the consequences of climatic extremities. Destruction of nature and global warming are the major causes for this. Unless we undertake sustainable development, it will be a great peril for the coming generations. Western Ghats is a home for a large number of species of flora and fauna. It's not wrong to use it for medicinal purpose. Also, there exists no problem as far as water is concerned in these areas. But acute water shortage is experienced in areas where there are rubber and Acacia plantations. People are facing a lot of problems because they fail to take care of nature in required manner. It's better to understand the importance of natural resources before they go extinct. Sustainable development should be practiced. We should be ideal to the next generations as far as the use of resources is concerned.



Dr. T V Ramachandra addressing the final year students of AIET during the BOOT CACMP 2019



CENTRE FOR CONTINUING EDUCATION
INDIAN INSTITUTE OF SCIENCE
BENGALURU - 560012

CERTIFICATE

This is to certify that

VEENA D SAVANTH

has participated in a short-term course on

**"Free and Open Source Geospatial Technologies (FOSS4G) for
Natural Resource Management"**

during 27 - 31 May 2019

Under the Quality Improvement Programme of
All India Council for Technical Education, New Delhi

T. V. Ramachandra
Dr. T V Ramachandra
COURSE CO-ORDINATOR

G. Narayanan
Prof. G Narayanan
CO-ORDINATOR, QIP

G. L. Sivakumar Babu

Prof. G L Sivakumar Babu
CHAIRMAN, CCE

QIP SHORT TERM COURSE ON 'FREE AND OPEN SOURCE GEOSPATIAL TECHNOLOGIES (FOSS4G) FOR NATURAL RESOURCES MANAGEMENT, DURING 27-31 MAY 2019



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Report on

“LAKE Conference 2018”



Lake 2018: Conference on Conservation and Sustainable Management of Riverine Ecosystems

[THE 11TH BIENNIAL LAKE CONFERENCE]

Date: 22-24th November 2018 [25 Nov 2018 – Field Visit]

Venue: V.S. Acharya Auditorium, Alva's Education Foundation, SundariAnanda Alva Campus, Vidyagiri, Moodbidri, D.K. Dist., Karnataka, India – 574227, Phone: +91 8258 238105

Symposium Web: <http://alvascollege.com/upcoming-events/lake2018> <http://ces.iisc.ernet.in/energy>

E Mail: lake2018@alvascollege.com; energy.ces@iisc.ac.in; lake2018symposium@gmail.com; tvr@iisc.ac.in

Organised by

Energy and Wetlands Research Group [<http://ces.iisc.ernet.in/energy>],

Centre for Ecological Sciences, Indian Institute of Science, Bangalore 560012

Alva's College Moodbidri & **Alva's Institute of Engineering and Technology, Mijar, Moodbidri,**

Dakshina Kannada – 574227, Karnataka, India, Phone: 08258-250275, 236531, 08258- 250200 to 207

Fax: 08258-237311, principal@alvascollege.com

Adarsha Chetana, Bangalore

Environment & Urban Research Group, RGSIDM, IIT-Kharagpur

Vagdevi Vilas Institutions, Bangalore

Vidyaniketan Public School, Ullal, Bangalore

K.K. High School, Varthur, Bangalore

Bangalore Blaze Girls High School

Vinayaka Public School, Yelahanka

Centre for Environment Education, Bangalore

Students for Development, Bangalore

World Organization of Students and Youth

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The Ministry for Environment, Forests and Climate Change, Government of India

NRDMS Division, The Ministry for Science and Technology (DST), Government of India

Lake 2018: Conference on Conservation and Sustainable Management of Riverine Ecosystems

Introduction: Symposium focusing on lakes/wetlands 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 education institutions, Governmental and non-governmental organisations, 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 2018 will be the 11th Biennial Lake Conference focusing on "Conservation and Sustainable Management of Riverine Ecosystems" will be held at foothills of Western Ghats during 22-24 November 2018. The theme of World Wetlands day 2018 is **Wetlands for Sustainable Future** to demonstrate the vital role of wetlands for the future of humanity and specifically their relevance towards achieving the new Sustainable Development Goals. Lake 2018 conference provides a unique opportunity to increase understanding of the role of lentic and lotic ecosystems in sustaining the food, water and human livelihood with the challenges faced by these fragile ecosystems.

The Western Ghats sustains perennial rivers, while ensuring the peninsular India's water and food security and hence aptly branded as the water tower of peninsular India. These series of hills lies in the western part of peninsular India with undulating terrains running in the North-South direction for about 1600 km parallel to the Arabian Sea along the west coast from south of Gujarat to the end of the peninsula (8°- 21° N and, 73°- 78° E) with the spatial extent of about 1, 64,280 km² (< 5% of India's geographical area), is interrupted only by a 30 km break in Kerala, the Palghat Gap. Ghats have an average height of 900 m, with several cliffs rising over 1000 m. The Nilgiri Plateau to the north and Anamalais to the south of the Palghat Gap exceed 2000 m in many places and towards the eastern side the Ghats merge with the Deccan Plateau which gradually slopes towards the Bay of Bengal. This region, being the source of numerous rivers flowing towards the Arabian Sea and three major rivers, joined by many of their tributaries flow eastward, towards the Bay of Bengal, forms an important watershed for the entire peninsular India. Riverine ecosystems are cradles of biological diversity, providing 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 and nutrient cycle, 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. 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 wetland

resources require an understanding of issues, concerns and threats to water resources. 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 and terrestrial resources.
- Recommending policies and action plan towards the conservation and sustainable management of ecologically sensitive regions in Western Ghats – water tower and food bowl for peninsular India.

Scope: Lake 2018– ‘*Wetlands Ecosystems for Sustainable Future*’ demonstrate the vital role of wetlands for the future of humanity and specifically their relevance towards achieving the new Sustainable Development Goals. Lake 2018 conference provides a unique opportunity to increase understanding of the role of riverine ecosystems in sustaining the food and water with the challenges faced by these fragile ecosystems. Lake 2018 would focus not only on updating of the current knowledge of the scientific community and also would bring in awareness among students, teachers and public. This would provide a platform for interaction among researchers, policy makers, academics 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 develop efficient strategies for the conservation and management of fragile ecosystems. As a part of the conference it has been decided to have theme based lead lectures by the eminent scholars, paper and poster presentations by researchers, school and college students.

Objectives: Focus of Lake 2018 would be (i) assessment of the present status and conservation aspects of aquatic ecosystems (wetlands, lakes, tanks, ponds, swamps, streams and rivers), (ii) presentation by researchers, practitioners, students of case studies focusing on biodiversity, ecology, present status, threats, conservation measures required, (iii) discussion of current programmes on restoration, conservation and management of wetlands, (iv) role of education institutions, non-governmental organisations, religious organisations, (v) discussion of people’s livelihood and fundamental right towards equitable resource allocation through scientific assessment of ecosystem goods and services, (vi) presentation by students (schools and colleges) based on documentation focusing on wetlands – biodiversity, present status, ecology, conservation and protection needs, (vii) allocation of financial and human resources to conserve and protect ecologically fragile ecosystems, (viii) proposals by students and non-governmental organisations for conservation, protection, restoration and sustainable management of aquatic ecosystems, (ix) discussion on research gaps and activities to be initiated by researchers to evolve appropriate strategies towards conservation of ecosystems in Western Ghats, and (x) developing strategies for conservation and sustainable management of aquatic ecosystems in Western Ghats to sustain water, food and human livelihood.

THEMES: Papers are invited on the following themes from researchers, planners, development managers, economists and social scientists, school (VIII – XII students) and college students, school and college teachers.

Topics for Paper Presentation/ Poster in Lake 2018:

1. Wetlands for sustainable future;
2. Aquatic Ecosystems - Food and water security, people's livelihood;
3. Climate Change and Western Ghats: Water sustenance;
4. Biodiversity, hydrology & Ecology of Western Ghats;
5. Wetlands and swamps: Restoration, Conservation and Management;
6. Aquatic and Terrestrial Ecosystems: Linkages
7. Land use, Land cover dynamics in Western Ghats
8. Carrying capacity of river basins in Western Ghats;
9. Valuation of Ecosystem Goods and services;
10. Sacred Groves (*kans, devarakadu*) and Myristica Swamps;
11. Eco-Tourism in Western Ghats and Carbon sequestration;
12. Application of Geoinformatics in Ecosystems Management;
13. Natural and Anthropogenic disasters;
14. Limnology, aquatic ecology, biodiversity and prospects of bio-monitoring;
15. Pollution –terrestrial and aquatic - Monitoring and Management, bioremediation;
16. Sustainable Agriculture and organic farming;
17. Coastal ecosystems – Biodiversity, Ecology, Productivity and livelihood aspects;
18. Prospects of Renewable Energy (solar, biofuel, bioenergy) and Energy Conservation;
19. Environmental Education and Sustainable Development;
20. Environment Ethics and Green Technology; and Environment Literacy.

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

ACCOMMODATION:

- Key speakers and invited delegates would be accommodated at Guest house in the college campus.
- Students and teachers would be accommodated at Student's Hostel on campus
- Delegates whose paper is accepted for technical session will be accommodated at hostel 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 the respective hotel (Rs. 1000/person/day – non AC room and Rs 1500/person/day for AC room). Accommodation will be arranged on payment basis upon the request from the delegates.

REGISTRATION FEE*

- Delegates: Rs. 3,000/-, Accompanying person: Rs. 1500/-
- Research Scholars and University faculty: Rs. 3,000/-
- Masters students: INR 1500/- (mandatory to attend all four days)
- UG students: INR 750/- (mandatory to attend all four days)
- Representatives from NGO: Rs. 5,000/-, Industry: 15,000/-, Govt Agency: 5,000/-
- School and PU College students: The organizing committee has decided to waive registration fee to school students and school teachers whose papers are accepted for presentation in the technical session.

Demand draft be drawn in favour of the "Lake 2018, Alva's College, Moodbidri, Dakshina Kannada. DD to be sent along with duly filled in registration form.

*Registered Participants (Mandatory to attend all four days) will get the certificate.

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 STALL:

An exhibition of software and hardware related to the Environmental technologies, 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 INR 25,000. Registered agencies would be allowed to make 10 minutes presentation. Interested agencies may contact the working President, Lake 2018 and remit the fee through DD drawn in favor of "Lake 2018, Alva's College" payable at Moodbidri.

Lake 2018 SPONSORSHIP DETAILS:

Lake 2018 welcomes the support through sponsorship. Logo & Name of Sponsors will be displayed appropriately in Backdrop, Stands & Souvenir of Lake 2018. Sponsors will be given adequate mileage thru coverage.

Category of Sponsor Fee		Complementary delegates & stall
Diamond Sponsor	Rs. 3,00,000/-	(4 delegates, 12sqm exhibition stall)
Gold Sponsor	Rs. 2,00,000/-	(4 delegates, 6 sqm exhibition stall)
Silver Sponsor	Rs. 1,00,000/-	(2 delegates, 4 sq m exhibition stall)

Demand draft be drawn in favour of "Lake 2018, Alva's College, Moodbidri, Dakshina Kannada. DD to be sent along with duly filled in registration form.

LAKE 2018 - Organising Committee:

Honorary President: Dr. M. Mohan Alva, Chairman, Alva's Education Foundation®, Moodbidri
President: Mr. Vivek Alva, Trustee, Alva's Education Foundation®, Moodbidri
Working President: Dr. Kurian, Cellphone: +919740668967, principal@alvascollege.com
Chairman: Dr. T.V. Ramachandra:080-22933099, EWRG, CES, IISc, Bangalore 560012

CONVENERS
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 Uma Mohan, Vinayaka School, Bangalore

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 Vinay S, CES, IISc, Bangalore
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 Prakash Mesta, CES, IISc
 G. R. Rao, CES, IISc, Kunta
 Asulabha K.S., CES, IISc, Bangalore
 Sincy V., CES, IISc, Bangalore
 Sudarshan Bhat, CES, IISc, Bangalore
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 College, Moodbidri
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 Rama Bhat P. P.G. Dept of Biotechnology, Alva's College
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 Sanjay, Alva's Institute of Engineering & Technology
 Ramya Rai P.D. Botany Department, Alva's College
 Rashmi K. PG Department of Applied Zoology, Alva's College,
 Deviprasad K.N., Viveknanda Collage, Puttur
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 Sanjeev Ningobam, World Organisation of Students and Youth
 Prem, Students for Development

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 Surendra P., Alva's Institute of Engineering & Technology
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 Chandrakala, Alva's College, Moodbidri
 Ramya Rai, M., Alva's College, Moodbidri
 Sharath Shet, PG Dept of Chemistry, Alva's College,
 Praveen Mugali, PG Dept of Chemistry, Alva's College,
 Radhika, Department of chemistry, Alva's College,
 Divya Baliga, Department of chemistry, Alva's College,
 Jentitta Emmim P, P.G. Dept of Biotechnology, Alva's College
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 Gayatri Naik, CES,
 Chandan M.C., IIT Kharagpur
 Rajshree Nair, BGS National Public School

Call for papers

Call for Scientific Papers: Delegates interested in presenting papers as oral or poster need to submit the scientific paper as per the guidelines given below.

Guidelines for Paper Preparation: 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.

Template as per: <http://wgbis.ces.iisc.ernet.in/energy/lake2014/proceedings.php>

Top/bottom margin	25 mm (on first page 35 mm)
Left/right margin	25 mm (all pages)
Typing area	160 mm x 247 mm (including folio), single space single column
Total pages	8 -10 pages including figures, tables, photographs, references etc., if any.
Font type	Times New Roman/Arial
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
E Mail ID, Telephone number and Mobile	11 point
Organisation web URL	11 point
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, center 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 (Align Left). 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.

Posters: Size A 0 and template as per

http://wgbis.ces.iisc.ernet.in/energy/lake2014/posters/poster_shrikant.pdf

Lake 2018: Programme Details

Date	Morning Session (9.00 am – 1.00 pm)	Afternoon Session (2.00 pm – 7.30 pm)
Day 1 22 Nov 2018	Inauguration, Presidential Address, Release of Conference Proceedings, Chief Guest address, Keynote – Riverine Ecosystems of Western Ghats: Conservation and Management	Wetlands in Central Western Ghats: Success Stories Session on Temple Ponds Cultural Programme - Yakshagana
Day 2 23 Nov 2018	Western Ghats Biodiversity, Ecology and Livelihood. Technical Sessions: Western Ghats – Biodiversity, Eco-Economics, Energy, Geo-visualisation, Livelihood, Environmental Ethics and 10 th – 12 th Students presentation (parallel sessions)	Technical sessions: Terrestrial Ecosystem, Aquatic Biodiversity, Wetlands Ecosystem, Aquatic Toxicology and Waste Water Treatment and 9 th and 8 th Students presentation (parallel sessions)
Day 3 24 Nov 2018	Conservation and Sustainable management of Riverine Ecosystems Technical Sessions: Urban Dynamics, Hydrology and Soil and Teachers presentation (parallel sessions)	Technical Sessions: Coastal Ecosystem Interactive Session, Panel Discussion, Cultural programme, <i>Sahyadri Young Ecologist Award 2018</i> (student) and <i>Sahyadri Ecologist Award 2018</i> (teacher), Valedictory, prize and certificates distribution.
Day 4 25 Nov 2018	Field Visit	

Dates to Remember

Registration [Registration form].	15 th October 2018
Submission of scientific papers (full length / extended abstract), posters with the Registration Form (with the registration fee, depending on the category) – delegates presenting papers/posters.	15 th October 2018
Review of Papers and posters by the committee	15 th October 2018
Final submission of the revised manuscript (based on review)	20 th October 2018
Notification of Acceptance of Papers (on web)	24 th October 2018
Lake 2018 Conference	22-24 th November 2018
Field visit (wetlands, sacred groves, Shobavana, ...)	25 th November 2018

Paper Acceptance details at:

<http://ces.iisc.ernet.in/energy>

<http://alvascollege.com/upcoming-events/lake2018>

E Mail: lake2018@alvascollege.com; energy.ces@iisc.ac.in; lake2018symposium@gmail.com

Energy & Wetlands Research Group, CES, Indian Institute of Science, Bengaluru

The Energy and Wetlands Research Group at the Centre for Ecological Sciences (CES), is actively involved in studies and training on issues related to environment, water resources, energy, ecology, wetlands, geographic information systems, environmental impact assessment and natural resource management. The Centre for Ecological Sciences, founded in 1983 with the support of Ministry of Environment and Forests offers exciting opportunities for research in a variety of areas in ecology. Over the past 25 years, and more, CES have instilled a tradition of rigorous enquiry in diverse areas of ecology, evolution and behavior. The projects of CES are often integrative which uses multiple approaches, from theoretical and laboratory studies to field-based research, to explore the research questions. A number of CES research areas are breaking new ground in ecology while others have significant roles in conservation. Details at <http://ces.iisc.ernet.in/energy>
https://www.researchgate.net/profile/T_V_Ramachandra/publications

Indian Institute of Science (<http://www.iisc.ernet.in>)

The Indian Institute of Science (IISc) was founded in 1909 as a result of the joint efforts of Jamsetji Nusserwanji Tata, the Government of India, and the Maharaja of Mysore. In 1886, Jamsetji Tata conceived of a university of science that will work for the benefit of India, and in 1898 created an endowment for establishing such an institution.

Over the 107 years since its establishment, IISc has become the premier institute for advanced scientific and technological research and education in India. Beginning with 2 departments and 21 students in 1911, today IISc has 39 departments, units, or centres, 3500 students, and about 500 academic and scientific staff, supported by 600 administrative personnel. Out of this population of students, about 2200 are in various PhD programs, almost 900 are enrolled for various Masters degrees, whereas about 400 are registered in the newly established, research oriented, four-year Bachelor of Science (Research) programme, of which the first batch graduated in 2015.

Alva's Education Foundation (R) Moodbidri (<http://alvas.org/>)

Alva's Education Foundation (R) Moodbidri, was established in 1995 by visionary chairman Dr. M. Mohan Alva to provide the quality education to the rural students mainly in and around Moodbidri. He has succeeded in developing Moodbidri as education hub in South Canara with 20 various Educational Institutions. These educational Institutions are characterized by quality education across a broad range of disciplines in the field of Medicine and Allied health Sciences, Arts, commerce, Business & Management, Basic Sciences, Engineering & Technology, Social Science, Education, Physical Education, Pre University Courses and Primary Education. The Foundation also organizes many cultural and literary events like "Alva's Virasath" and Alva's Nudisiri" and festivals of all communities to infuse rich meaning in to the contemporary social life which is otherwise fraught with modern monotony and mundane fullness. Alva's Pragati is a mega job fair which provides job to job seeker across the state and have provided more than 25,000 jobs since the inception.

ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

Shobhavan Campus, Mijar, Moodbidri - 574225

(Affiliated to Visvesvaraya Technological University, Belagavi

Approved by AICTE, New Delhi & Recognized by Government of Karnataka)



Report on

“LAKE Conference 2016”

Address for Communication

Dr. Kurian

Working President, Lake 2018 Conference
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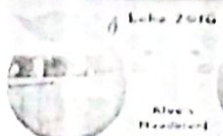
Dr. T.V. Ramachandra

Chairman, Lake 2018 Conference
Energy and Wetlands Research Group, TE 15,
Centre for Ecological Sciences, Third Floor, E wing,
New Bioscience Building, [Near D Gate],
Indian Institute of Science,
Bangalore 560012
Phone: 91-080-22933099/2293 3503 (extn. 101/107)
E mail: tvr@iisc.ac.in, energy.ces@iisc.ac.in
Lake2018symposium@gmail.com

Conference Web: <http://ces.iisc.ernet.in/energy>



Glimpses of 2016 conference @ Alva's College Moodbidri



Lake 2016 - International Conference on Conservation and Sustainable Management of Ecologically Sensitive Regions in Western Ghats

The 10th Biennial Lake Conference

Lake 2016

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On leaving fruits, trees bend (become humble),
with new gathered water, clouds hang very low,
wealthy good men maintain non-arrogant
nature, this is the nature of benevolent persons.

- Subhaschandra

ENERGY AND WETLANDS RESEARCH GROUP, CENTRE FOR ECOLOGICAL SCIENCES,
INDIAN INSTITUTE OF SCIENCE, BANGALORE



Lake 2016: Conference on Conservation and Sustainable Management of Ecologically Sensitive Regions in Western Ghats

[THE 10TH BIENNIAL LAKE CONFERENCE]

Date: 28-30th December 2016, Field Visit: 31 December 2016

Venue: V.S. Acharya Auditorium, **Alva's Education Foundation**, Sundari Ananda Alva Campus, Vidyagiri, Moodbidri, D.K. Dist., Karnataka, India – 574227, Phone: +91 8258 238105

Symposium Web: <http://alvascollege.com/upcoming-events/lake2016>

<http://wgbis.ces.iisc.ernet.in/energy/lake2016/index.php>

E Mail: lake2016@alvascollege.com; lake2016@ces.iisc.ernet.in;

lake2016symposium@gmail.com; cestvr@ces.iisc.ernet.in; energy@ces.iisc.ernet.in

Organised by

Energy and Wetlands Research Group, [<http://ces.iisc.ernet.in/energy>],
Centre for Ecological Sciences, Indian Institute of Science, Bangalore 560012
<http://wgbis.ces.iisc.ernet.in/energy>; <http://wgbis.ces.iisc.ernet.in/biodiversity/>

Alva's College Moodbidri & **Alva's Institute of Engineering and Technology**,

Mijar, Moodbidri, Dakshina Kannada – 574227, Karnataka,

Phone: 08258-250275, 236531, 08258- 250200 to 207; Fax: 08258-237341

Vagdevi Vilas Institutions, Bangalore

K.K. High School, Varthur, Bangalore

Bangalore Blaze Girls High School, Chandra Layout

Students for Development, Bangalore

Vidyaniketan Public School, Ullal, Bangalore

Adamyia Chetana, Bangalore

Vinayaka Public School, Yelahanka, Bangalore

World Organization of Students and Youth

Supported by

Karnataka Environment Research Foundation

Karnataka Biodiversity Board, Bangalore

Central Institute of Plastics Engineering and Technology, Chennai

ENVIS Division, The Ministry for Environment, Forests and Climate Change, Government of India

NRDMS Division, The Ministry for Science and Technology (DST), Government of India



28 th December 2016		Venue: V.S. Acharya Auditorium, Alva's College, Vidyagiri, Moodbidri	
8 30-9 am	Registration		
9 – 10 00 am	Welcome and information about Lake 2016– Dr. Kurian		
	Keynote Address: Ecologically Sensitive Regions In Western Ghats –TV Ramachandra		
10 00-11 00	Lake 2016 – INAUGURATION AND PRESIDENTIAL ADDRESS		
	Inauguration by: Dr. K. Byrappa, Vice Chancellor, Mangalore University		
	President: Dr. M Mohan Alva, Chairman, Alva's Education Foundation		
	Guest of Honour		
	Shri Shri Gangadharendra Sarswati Swamiji, Sirsi		
	Shri Shri Bhattarakara Charukeerthi Pandicharayavarya Swamiji		
	Chief Guests:		
	Dr Tejaswini AnanthKumar, Chair Person, Adanya Chetana, Bangalore		
	Sri. K Abayachandra Jain, MLA, Moodbidri		
	Sri. Ananth Hegde Ashisar, Former Chairman, Western Ghats Task Force, GoK		
	Invitee		
	Sri. Harish Krishnamurthy, Chairman Vagdevi Vilas Institutions		
	Sri. Vijai Krishna Rajagopal, Director and Principal, Vidyaniketan Public School, Ullal		
	Presence		
	Sri. Vivek Alva, Trustee, Alva's Education Foundation (R), Moodbidri		
	Dr. Kurian, Working President, Lake 2016 & Principal, Alva's College		
	Dr. T.V. Ramachandra, Chairman, Lake 2016, Indian Institute of Science		
11-11 30 am	TEA		
11 30-12 noon	Conservation Of Western Ghats -Sri. Ananth Hegde Ashisar		
12-12 30	Studies on Zingiberaceae of Karnataka with Special Reference to the Western Ghats - K. Gopalakrishna Bhat		
12 30 – 1	Green Kitchen - Dr Tejaswini AnanthKumar		
1-2 pm	LUNCH		
Parallel Session I	Johny Biosphere Session – Johny Biosphere (Khan), Vrijlal, Chaturved, Rahaman, Ali Rani, Sri Vidya		
2- 5 30 pm	Venue: NUDISIRI Main Auditorium		
Parallel Session II	TECHNICAL SESSION I: Western Ghats and Coastal Biodiversity		
2-5 15 pm	Venue: V.S. Acharya Auditorium, Alva's College, Vidyagiri, Moodbidri		
	Chair: M.D. Subash Chandran, Dr. Pushpendra, S.N. Prasad, Bharath Settur, Bhargavi		
2-3 pm	Session – Western Ghats (Bharath Settur, G R Rao, Rajasri Ray Nimish, Sudarshan,)		
3-4 pm	Session – Coastal Ecosystem (Prakash Mesta, Deepthi, Sachin, Saranya, Bhargavi)		
4- 4 30pm	TEA		
4 30-5 15	Session – Sacred Groves (Vinay, Sincy, Asulabha, Pavitra), Decision Support Systems (Tara)		
Parallel Session III	TECHNICAL SESSION II – ENVIRONMENT MANAGEMENT		
2-5 15 pm	Venue: Kuvempu Hall		
	Chair: Rajasekara Murthy, Timo Huttula, Alfred Wuest, Harish R Bhat		
2-4 pm	CIPET Delegates – Plastic Waste Management		
4- 4 30pm	TEA		
4 30 – 4 50	Microplastics : An Emerging contaminant ...- E.V. Ramasamy		
4 50 – 5 15	Environmental Education and Sustainable Development - Vidyadhar Durgekar		
	TECHNICAL SESSION III: POPULAR LECTURES		
5 30- 6 45 pm	Venue: V.S. Acharya Auditorium, Alva's College, Vidyagiri, Moodbidri		
	Chair: B.M. Kumaraswamy, Suresh Heblikar, Deepthi Habbale		
5 30-6 15	Popular Lecture: Pulses for Life – M D Subash Chandran		
6 15-6 45	Pelagic Bird's study along the Arabian Sea - Harish R. Bhat		
	ETHNIC SESSION – CULTURAL DIVERSITY		
7 00-8 30	Venue: V.S. Acharya Auditorium, Alva's College, Vidyagiri, Moodbidri		
	Chair: Vivek Alva, Bhargavi R		
7 00-8 30	Cultural Diversity of India		
	NOURISHMENT DIVERSITY OF SOUTH CANARA		
8 30 – 9 15	Venue: Sundari Ananda Alva Bhavan, Alva's College, Vidyagiri, Moodbidri		
	Chair: Maiya, Rajesh, Jayadev, Srividya, Sudarshan Bhat		
8 30	DINNER		

29 December 2016	TECHNICAL SESSION IV: GEOSPATIAL TECHNOLOGIES	
9-10 am	Venue: V.S. Acharya Auditorium, Alva's College, Vidyagiri, Moodbidri	
	Chair: Arun Inamdar, Shri Niwas Singh, Vinay S	
9-9 30 am	Ecological sensitive areas of Western Ghats- Role of Open source- geospatial technologies - S Narendra Prasad	
9 30 -10 am	Urban Observatories for Enhancing Quality of Urban Life - Bharath H. A	
10 am	Inauguration: Lake 2016 –YUVA Programme	
	Venue: V.S. Acharya Auditorium, Alva's College, Vidyagiri, Moodbidri	
10-11 am	Lake 2016 – Inauguration and Presidential address	
	Inauguration by: Sri. Ananth Kumar, Hon. Min. of Parliamentary Affairs & Ministry of Chemicals and Fertilisers, GoI	
	President: Dr. M Mohan Alva, Chairman, Alva's Education Foundation	
	Guest of Honour:	
	Dr. Anandi Subramanian, Sr. Advisor, MoEFCC, GoI	
	Prof. Dr. Sanjay K. Nayak, DG, CIPET, Chennai	
	Sri. K Amarnath Shetty, Former Minister, GoK	
	Prof. Rajasekara Murthy, President, Karnataka Environment Research Foundation	
	Chief Guests:	
	Prof. B M Kuamaraswamy, Shimoga	
	Mr. Suresh Heblikar, Eco-Watch	
	Invitee	
	Ms. Uma Mohan, Principal, Vinayaka Public School, Yelahanka	
	Ms. Srividya, CEO, Bangalore Blaze Girls High School, Bengaluru	
	Dr. Harish Bhat, CES, Indian Institute of Science, Bengaluru	
	Presence	
	Sri. Vivek Alva, Trustee, Alva's Education Foundation (R), Moodbidri	
	Dr. Kurian, Working President, Lake 2016 & Principal, Alva's College	
	Dr. T.V. Ramachandra, Chairman, Lake 2016, Indian Institute of Science	
11-11 30	TEA	
Parallel Session I	TECHNICAL SESSION V: WETLANDS	
29-12-2016	Venue: V.S. Acharya Auditorium, Alva's College, Vidyagiri, Moodbidri	
	Chair: Bharath H. Aithal, Rajasekara Murthy, Chandan, Saranya	
11 30-12	Wetlands of Kerala: Degradation, restoration and future management-a case study of Kavvayi wetland-a coastal wetland in the Northern Kerala - P S Harikumar	
12-12 30	Wetlands and their ecosystem services: Experiences from North - Timo Huttula	
12 30 - 1	Oxygen Depletion in Stratified Lakes – Why Shallow and Deep Lakes React Differently? - Alfred Wüest	
1-2	LUNCH	
2 – 2 30	Mangroves: Threats and conservation strategies - K. R. Candrashekar	
2 30-3	Integrating Sustainable Coastal Development Initiatives along Maharashtra Coast, using ICM Guidelines - A. B. Inamdar	
3 - 3 30	Lessons from Phewa lake and Phusre river of Nepal to mitigate landslides, floods, etc. – Sri Niwas Singh	
3 30 - 4	Integrated municipal water resources management within the North American Great Lakes- Rajasekara Murthy	
4- 4 30pm	TEA	
Parallel Session II	TECHNICAL SESSION VI: VIII Standard Students	
29-12-2016	Venue: Payaswini Hall, UG Building, Room No. 014	
	Chair: Dakshayini R. Murthy, Chandrakala R.Rao, Sudarshan Bhat	
11 30 am -5 pm		
Parallel Session III	TECHNICAL SESSION VII: IX Standard Students	
29-12-2016	Venue: Sauparnika Hall , UG Building, Room No. 018	
	Chair: E V Ramasamy, Sashi S Bhat, Aftab	
11 30 am -5 pm		

Parallel Session IV		TECHNICAL SESSION VIII: X Standard Students	
29-12-2016		Venue: Seethanadhi Hall, UG Building, Room No. 205	
11 30 am -5 pm		Chair: B M Kumaraswamy, Sreevalli H. Bhat, Asulabha K S	
Parallel Session V		TECHNICAL SESSION IX: XI & XII (PUC) Students	
29-12-2016		Venue: Nandini Hall, UG Building, Room No. 216	
11 30 am -5 pm		Chair: Dr. Kumar Hegde, Mrs. Alfred Wüest, Rajya Lakshmi V, Bindu	
Parallel Session VI		TECHNICAL SESSION X: UG Students	
29-12-2016		Venue: Shambavi Hall, UG Building, Room No. 305	
11 30 am -5 pm		Chair: Mrs. Timo Huttula, Harish R. Bhat, Bhargavi	
Parallel Session VII		TECHNICAL SESSION XI: PG Students	
29-12-2016		Venue: Kuvempu Hall, UG Building, Ground floor	
11 30 am -5 pm		Chair: M D Subash Chandran, Prakash Mesta, Nagaratna, Sincy V	
Parallel Session VIII		TECHNICAL SESSION XII: Faculty	
29-12-2016		Venue: Nethravathi Hall, 4th Floor, UG Building Room No. 415	
11 30 am -5 pm		Chair: S N Prasad, Bharath Settur, Tara	
Parallel Session IX		TECHNICAL SESSION XIII: Research Scholars	
29-12-2016		Venue: Kumaradhara Hall, UG Building, Room No. 406	
11 30 am -5 pm		Chair: Rajasri Ray, Sachin, Nimish, Pavithra	
Parallel Session X		TECHNICAL SESSION XIV: School Teachers	
29-12-2016		Venue: Palguni Hall , UG Building, Room No. 102	
11 30 am -5 pm		Chair: Ahalya N, Vinay S, Vidyadhar Durgekar, Deepthi	
TECHNICAL SESSION XV: POSTER SESSION (Books and Posters)			
Ravishankar, Gayatri Naik, Vishnu D Mukri, Sreekanth Naik			
Category	Chair and Co-Chair		
VIII Standard	P S Harikumar, Dakshayini R. Murthy, P V. Gouda, Sudarshan Bhat		
IX Standard	Alfred Wüest, Mrs. Alfred Wüest, Sreekanth Naik, Aftab		
X Standard	Timo Huttula, Mrs. Timo Huttula, Gayatri Naik, Asulabha K S		
XI and XII	S N Prasad, Kumar Hegde, Bharath Settur, Vishnu, Tara		
UG	Sri Vidya, Harish R. Bhat, Sreevalli H. Bhat, Bhargavi		
PG	Uma Mohan, Nagaratna, Sincy V		
Research Scholars	M A Khan, Dr. Pushpendra, Rajasri Ray, Nimish, Pavithra		
EWRG	Dr. Devi Prasad, Sri Niwas Singh, B M Kuamaraswamy, Vivek Alva, Kurian		

TECHNICAL SESSION XV: POPULAR LECTURES	
5 30- 6 45 pm	Venue: V.S. Acharya Auditorium, Alva's College, Vidyagiri, Moodbidri
	Chair: Kurian, Vivek Alva
5 30-6 30	Western Ghats: Water Security & People's Livelihood- TVR
CULTURAL DIVERSITY	
7 00-8 30	Venue: V.S. Acharya Auditorium, Alva's College, Vidyagiri, Moodbidri
	Chair: Vivek Alva, Bhargavi R
7 00-8 30	Cultural Diversity of India
FOOD DIVERSITY OF SOUTH CANARA	
8 30 - 9 15	Venue: Sundari Ananda Alva Bhavan, Alva's College, Vidyagiri, Moodbidri
	Chair: Maiya, Rajesh, Jayadev, Srividya, Sudarshan Bhat
8 30	DINNER

30 December 2016	TECHNICAL SESSION XVI: PANEL DISCUSSION
9-11 am	Venue: V.S. Acharya Auditorium, Alva's College, Vidyagiri, Moodbidri
	Chairman: M D Subash Chandran , Smitha Hegde, Ahalya N
	Panel Members: B M Kumaraswamy, Harish R Bhat, Suresh Heblikar, T V Ramachandra, Devashish Kar, A L Ramanathan, Rajasekara Murthy, Hari Kumar, Rajesh, Vivek Alva
11-11 30	TEA
30-12- 2016	TECHNICAL SESSION XVI: Rivers, High Altitude Lakes, ..
	Venue: V.S. Acharya Auditorium, Alva's College, Vidyagiri, Moodbidri
	Chairman: Devashish Kar, Dr. P V Gouda, Harish R Bhat, HariKumar
11 30-12	Interlinking of Rivers: Ecological Implications – B M Kumaraswamy
12-12 30	High Altitude Lake – A L Ramanathan
12 30 – 1	Need for Restoration of the Primeval Forest of Western Ghats – M D Subash Chandran
1-2	LUNCH

30-12- 2016	VALEDICTORY SESSION
	Venue: V.S. Acharya Auditorium, Alva's College, Vidyagiri, Moodbidri
2- 3 PM	Shri. Anil Madhav Dave, Hon. Min. of Environment, Forests and Climate Change, Gol
3- 3 30 pm	Sri. Anil Dave - Interactive session with Lake 2016 Forum
3 30 - 6 PM	Lake 2016 – Valedictory & Presidential Address
	President: Dr. M Mohan Alva, Chairman, Alva's Education Foundation
	Chief Guest
	Shri. Anil Madhav Dave, Hon. Min. of Environment, Forests and Climate Change, Gol
	Gracious Presence and Blessings
	Shri. Shri. Vidya Prasanna Teertha Swamiji, Sri Sampata Narasimha Mutt, Subramanya
	Guest of Honour:
	Sri. Nalin Kumar Kateel, Member of Parliament, Mangalore
	Capt. Ganesh Karnik, MLC, Deputy Conservator of Forests
	Dr. H T Hanumanthappa, Deputy Conservator of Forests, Mangalore Circle
	Invitee
	M A Khan, Principal, K K English School, Varthur
	M D Subash Chandran, CES, Indian Institute of Science
	Presence
	Sri. Vivek Alva, Trustee, Alva's Education Foundation (R), Moodbidri
	Dr. Kurian, Working President, Lake 2016 & Principal, Alva's College
	Dr. T.V. Ramachandra, Chairman, Lake 2016, Indian Institute of Science
6 – 6 30	TEA
	CULTURAL DIVERSITY
6 30 -7 30	Venue: V.S. Acharya Auditorium, Alva's College, Vidyagiri, Moodbidri
	Chair: M A Khan, Ravishankar, Bhargavi
6 30 -7 30	Cultural Diversity of India
	FOOD DIVERSITY OF SOUTH CANARA
7 30 pm	Venue: Sundari Ananda Alva Bhavan, Alva's College, Vidyagiri, Moodbidri
	Chair: Maiya, Rajesh, Jayadev, Srividya, Sudarshan Bhat
7 30 pm	DINNER

31-12- 2016	Lake 2016 – MOOBBIDRI, LAKE REJUVENATION
	Venue: Thousand Pillar Jain Temple, Moodbidri
	Gracious Presence and Blessings
	Shri Shri Gangadharendra Sarswati Swamiji, Sirsi
	Shri Shri Bhattarakara Charukeerthi Pandicharayavarya Swamiji
	President: Dr. Mohan Alva, Chairman, Alva's Education Foundation
	Guest of Honour:
	Dr. T.V. Ramachandra, CES, Indian Institute of Science
	Dr. M D Subash Chandran, CES, Indian Institute of Science
	Harish R Bhat, CES, Indian Institute of Science
	Sri. Vivek Alva, Trustee, Alva's Education Foundation (R), Moodbidri
	Dr. Kurian, Working President, Lake 2016 & Principal, Alva's College

āpo vāvānnād bhūyasyaḥ | tasmād yadā suvr̥ṣṭir na
 bhavati vyādhīyante prāṇā annaṁ kanīyo bhaviṣyatīti
 | atha yadā suvr̥ṣṭir bhavaty ānandinaḥ prāṇā
 bhavanty annaṁ bahu bhaviṣyatīti | āpa evemā mūrtā
 yeyaṁ pṛthivī yad antarikṣaṁ yad dyaur yat parvatā
 yad devamanuṣyā yat paśavaś ca vayāṁsi ca
 tṛṇavanaspatayaḥ śvāpadāny ākītapataṅgapipīlakam
 | āpa evemā mūrtāḥ | apa upāssveti |
 Chandogya Upanishad 7.10.1

Water is greater than food. Therefore if there is not sufficient rain,
 living beings fail from fear that there will be less food. But if there
 is sufficient rain, they become happy because there will be much
 food. This water, by assuming different forms, becomes this earth,
 sky, heaven, mountains, gods and men, cattle, birds, herbs and
 trees, all beasts down to worms, midges, and ants. Water itself
 assumes all these forms. Meditate on water.

- Chandogya Upanishad 7.10.1

Address for Communication

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Lake 2016
Management

Energy and Wetlands Research Group,
Alva's College and Alva's
Date: 20-31 December 2016

Energy and Wetlands Research
Group, Alva's College and Alva's
Date: 20-31 December 2016

2016-2017 International
Management of Ecology
THE 10th

Energy and Wetlands Research Group, Alva's College and Alva's
Date: 20-31 December 2016

of Ecologically Sensitive Regions in Western
THE 10th BIENNIAL LAKE CONFERENCE
Organized jointly by
Research Group, Centre For Ecological Sciences, Indian Institute of Engineering and Technology,
Venue: Dr. V. S. Acharya Auditorium,

Energy
Date: 20

Organized jointly by
Research Group, Centre For Ecological Sciences, Indian Institute of Engineering and Technology,
Venue: Dr. V. S. Acharya Auditorium,

Centre For Ecological Sciences,
Institute of Engineering and Technology,
Venue: Dr. V. S. Acharya Auditorium,

of Ecologically Sensitive Regions in Western
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Energy and Wetlands Research Group,
Alva's College and Alva's
Date: 20-31 December 2016

Centre For Ecological Sciences,
Institute of Engineering and Technology,
Venue: Dr. V. S. Acharya Auditorium,

of Ecologically Sensitive Regions in Western
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Research Group, Centre For Ecological Sciences, Indian Institute of Engineering and Technology,
Venue: Dr. V. S. Acharya Auditorium,

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