



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

[THE 10<sup>TH</sup> BIENNIAL LAKE CONFERENCE]

**Date:** 28-30<sup>th</sup> 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>

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### Organised by

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



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Vagdevi Vilas Institutions, Bangalore

Vidyaniketan Public School, Ullal, Bangalore

K.K. High School, Varthur, Bangalore

Adamy Chetana, Bangalore

Bangalore Blaze Girls High School, Chandra Layout

Vinayaka Public School, Yelahanka, Bangalore

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### Supported by

Karnataka Environment Research Foundation

Karnataka Biodiversity Board, Bangalore

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<b>28<sup>th</sup> December 2016</b>	<b>Venue: V.S. Acharya Auditorium, Alva's College, Vidyagiri, Moodbidri</b>
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	<b>Lake 2016 – INAUGURATION AND PRESIDENTIAL ADDRESS</b> <b>Inauguration</b> by: Dr. K. Byrappa, Vice Chancellor, Mangalore University <b>President:</b> Dr. M Mohan Alva, Chairman, Alva's Education Foundation <b>Guest of Honour</b> Shri Shri Gangadharendra Sarswati Swamiji, Sirsi Shri Shri Bhattarakara Charukeerthi Pandicharayavarya Swamiji <b>Chief Guests:</b> Dr Tejaswini AnanthKumar, Chair Person, Adama Chetana, Bangalore Sri. K Abayachandra Jain, MLA, Moodbidri Sri. Ananth Hegde Ashisar, Former Chairman, Western Ghats Task Force, GoK <b>Invitee</b> Sri. Harish Krishnamurthy, Chairman Vagdevi Vilas Institutions Sri. Vijai Krishna Rajagopal, Director and Principal, Vidyaniketan Public School, Ullal <b>Presence</b> 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	<b>TEA</b>
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	<b>LUNCH</b>
<b>Parallel Session I</b>	<b>Johny Biosphere Session</b> – Johny Biosphere (Khan), Vrijlal, Chaturved, Rahaman, Alli Rani, Sri Vidya
2- 5 30 pm	Venue: NUDISIRI Main Auditorium
<b>Parallel Session II</b>	<b>TECHNICAL SESSION I: WESTERN GHATS AND COASTAL BIODIVERSITY</b>
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 – <b>Western Ghats</b> (Bharath Settur, G R Rao, Rajasri Ray Nimish, Sudarshan) 1. Visualization of Landscape dynamics in National Parks of Central Western Ghats - Bharath Setturu 2. Vegetation studies in Sacred Grove & Non-Sacre Groves of Central Western Ghats - G.R.Rao 3. Nature conservation legacy in Western Ghats –Rajasri Ray 4. Landscape dynamics in protected areas -Nimish gupta 5. Bio-remediation of Macrophytes in Varthur and Bellandur lakes of Bangalore – Sudharshan 6. Environmental Information Dissemination Through Open Source Web Portals -Bindu
3-4 pm	Session – <b>Coastal Ecosystem</b> (Prakash Mesta, Deepthi, Sachin, Saranya, Bhargavi)

	<ol style="list-style-type: none"> <li>1. Mangrove mapping and conservation status in Uttara Kannada districts - Prakash Mesta</li> <li>2. Estuarine Sea Weeds of Aghanashini, South India West Coast - Deepthi Hebbale</li> <li>3. Role of Mangroves in Carbon Sequestration -Sachin Hegde</li> <li>4. Substrata wise Diatom Diversity of Aghanashini Estuary, Uttara Kannada District – Saranya</li> <li>5. Microbial Consortium Role in Bioethanol Production from <i>Ulva lactuca</i> - Bhargavi. R</li> <li>6. Brachyuran Crabs of Aghanashini Estuary, South Indian West Coast, Karnataka - Ganesh N. Shet</li> </ol>
4- 4 30pm	<b>TEA</b>
4 30-5 15	Session – <b>Sacred Groves</b> (Vinay, Sincy, Asulabha, Pavitra), Decision Support Systems (Tara, Bindu) <ol style="list-style-type: none"> <li>1. Hydrological regime in Sacred groves and Non- Sacred groves of Central Western Ghats -Vinay</li> <li>2. Ecological Status of Lotic Ecosystems in <i>Kans</i> and <i>Non- Kans</i> of Central Western Ghats -Sincy</li> <li>3. Nutrient Status of Soils of <i>Kans</i> and <i>Non- Kans</i> of Central Western Ghats - Asulabha</li> <li>4. Spatial Digital Support System –Tara</li> <li>5. Butterfly Diversity of Bangalore Urban District-Chaturved Shet R</li> <li>6. Status of bird diversity at Yediyur lake and Arekere in Bengaluru city -Vrijulal MV</li> </ol>
<b>Parallel Session III</b>	
<b>TECHNICAL SESSION II – ENVIRONMENT MANAGEMENT</b>	
2-5 15 pm	<b>Venue: Kuvempu Hall</b>
Chair: Rajasekara Murthy, Timo Huttula, Alfred Wuest, Harish R Bhat	
2-4 pm	CIPET Delegates – Plastic Waste Management
4- 4 30pm	<b>TEA</b>
4 30 – 4 50	Microplastics : An Emerging contaminant ...- E.V. Ramasamy
4 50 – 5 15	Environmental Education and Sustainable Development - Vidyadhar Durgekar
<b>TECHNICAL SESSION III: POPULAR LECTURES</b>	
5 30- 6 45 pm	Venue: V.S. Acharya Auditorium, Alva's College, Vidyagiri, Moodbidri
Chair: B.M. Kumaraswamy, Suresh Heblkar, 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
<b>ETHNIC SESSION – CULTURAL DIVERSITY</b>	
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
<b>NOURISHMENT DIVERSITY OF SOUTH CANARA</b>	
8 30 – 9 15	Venue: Sundari Ananda Alva Bhavan, Alva's College, Vidyagiri, Moodbidri
Chair: Maiya, Rajesh, Jayadev, Srividya, Sudarshan Bhat	
8 30	<b>DINNER</b>

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	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		
4 30-5 pm	Hydrological investigations for urban tank rehabilitation and development – Yedupathy Putty		
5-5 30 pm	Wetlands, rivers , fish, plankton resources and fish disease and aquaculture in North-East India: An Overview - Devashish Kar		

Parallel Session II			TECHNICAL SESSION VI: VIII Standard Students
29-12-2016			Venue: Payaswini Hall, UG Building, Room No. 014
11 30 am -5 pm			Chair: Dakshayini R. Murthy, Chandrakala R.Rao, Sudarshan Bhat
Sl	Cl	Title	Students and School
1	7	Facts of fruits	Ajith E.D, Justin Sebastian, Thomas, Faiz Abdulla, c/o Smitha Hegde, Mangalore
2	8	Animal Diversity of Vannalli Village, Kumta.	Chiranjeevi T Naik & Santhosh R Naik, Government High School, Vannalli, Kumta
3	8	Daregudde parisarad sassya varga- ondu parichaya	Charan Deerajn Ranjith, Lathesh, Government high school, Dare gudde
4	8	Herbivours	Deeksha Nayak and Prathvi Hegde , Sri Bhuvanendra Highschool, Karkala
5	8	Let's have a green choice	Kruthi, K.K.School
6	8	Medicinal Plant Diversity of Bada Village, Kumta.	Swati.Balagi and Sankalpa.Naik, CVSK High School,Kumta
7	8	Medicinal Plant Diversity of Vannalli Village, Kumta	Bharat S Naik & Sanjay S Naik Government High School, Vannalli, Kumta
8	8	Medicinal Plants	Rakshith Rao and Rahul S.D., Sri Bhuvanendra Highschool, Karkala
9	8	Tender coconut a blessing in disguise	Misba, K.K.School
Parallel Session III			TECHNICAL SESSION VII: IX Standard Students
29-12-2016			Venue: Sauparnika Hall , UG Building, Room No. 018
11 30 am -5 pm			Chair: E V Ramasamy, Sashi S Bhat, Aftab
Sl	Cl	Title	Student, School
1	9 & 8	Medicinal Plant Diversity of Hiregutti Village, Kumta.	Abhishek Gavankar & Suryakiran Patagar, CVSK High School,Kumta
2	9 & 8	Medicinal Plant Diversity of Hoskeri Village, Kumta.	Prateeka.S.Patgar & Pooja.M.Matagar, Shree Bobhru lingeshwar Vidyalaya, Lukkeri, Masuru, Kumta
3	9	Water Resources and Sourrounding Diversity of Kodambale Village, Kumta.	Ashwini Bogar, Harshini.Kamma BGS Central School, Mirjan, Kumta
4	9	A study on Physical ,Chemical and Biological States of Arekere Lake	Nirmalya, Smrith,i Shreya, Dhavan , Siddharth Shettar, BGS National Public School
5	9	Anekere parisara	Venkatesh Nayak, Karkala Sundara Puranik smarka high School, Pervaje
6	9	Anekere- the wetland and environs	Rahul Yadav I.G. and Tukram, Alva's English medium School, Puttige
7	9	Bahta beleyuva Raithana chitta adikeyatha	Sahana H. D. and Kavana, Alva's Kannada Medium high School, Puttige
8	9	Butter fly spiecies in and around Alva's High School	Harsha V. and Nishchal M., Alva's English medium School, Puttige
9	9	Case Study on "Bangalore's lost Lake":Hosakerehalli Lake and it's current situation	D.R.Jeevan, Vidyaniketan Public School



10	9	Comparative Assesment of Heavy Metals Level in Silt Of the Lentic Ecosystem Gottigere & Billawerlehalli Lake	Shreevidya U.S., Narayana School
11	9	Diversity study of Medicinal herbs of Lighthouse Hill, Mangalore	Rakshith N, Joswin Pinto, Harsha, c/o Smitha Hegde, Mangalore
12	9	How to make Kokkum's fruit outer cover to medicine & kokkum seed to oil	Shreelaxmi & Sharaya, SVS English Medium H School Bantwal
13	9	Introduction to Lakes and Mapping	Ashish Prajapati, Gowtham M, Vinayaka Public School
14	9	Macrophytes	Gokarna S, Vinayaka Public School
15	9	Medicinal Plant Diversity of Yalaguppa Village, Honnavar.	Keerthi Hegde & Akshata.Padthi, BGS Central School, Mirjan, Kumta
16	9	Medicine for Serpent bite	Kausalya Y Shetty & Srinidhi Nayak, SVS English Medium H School Bantwal
17	9	Medicines for Hepatatis	Shreeja & Bhagyashree, SVS English Medium H School Bantwal
18	9	Medicinal Plant Diversity of Kalabhag Village, Kumta.	Subramanya.L.Patagar & Chetan R. Patagar Nirmala Kamat High School, Alvekodi, Kumta.
19	9	Nagara galiege AC, Fan, Alla Maragalu Beaku	Supriya S, Harsha, Vidyanjali School
20	9	Natural & Anthropogenic Disasters	Lokaveer A, Chaitra C.U, Vidyaniketan Public School
21	9	Organic Farming: A Sustainable Agriculture Practice?	Avian Frank, Vyasa Nayak, c/o Smitha Hegde, Mangalore
22	9	Physico-Chemical Analysis	Jyothi V B, Vinayaka Public School
23	9	Phytoremediation of Varthur Lake Using Aquatic Fern	Shreyas S, Vagdevi Vilas School, Varthur
24	9	Planktons	Krithika S, Vinayaka Public School
25	9	Think before you Eat & Drink	Veena, K.K.School
26	9	Vernacular housing in hilly Western Ghats and coastal zone	Yohann, Dwayne, D'Souza, Pranav S, Karandoor, Anya Densi, Arahna, Alita Symran, D'Souza c/o Smitha Hegde, Mangalore
27	9	Water Resources and Sourrounding Diversity of Haladeepur Village, Honnavar.	Kavyanjali.Naik, VeenaPatagar, G.G.H.S, Kumta
28	9	Water Resources and Sourrounding Diversity of Hegade Village, Kumta.	Ananya G Hegde Apeksha.U.Shetty, CVSK High School, Kumta
29	9	Water Resources and Sourrounding Diversity of Hoskeri Village, Kumta.	Usha..I.Gunaga, Bhavya.V.Gowda Shree Bobhrulingeshwar Vidyalaya, Lukkeri, Masuru, Kumta

<b>Parallel Session IV</b>	<b>TECHNICAL SESSION VIII: X Standard Students</b>
<b>29-12-2016</b>	Venue: Seethanadhi Hall, UG Building, Room No. 205
11 30 am -5 pm	Chair: B M Kumaraswamy, Sreevalli H. Bhat, Asulabha K S

Sl	Cl	Title	Students and School
1	10	Sustainable Agriculture and Organic Farming	Kushi D.Athma , Keerthana D.R, Vidyaniketan Public School
2	10	Scientific Analysis of Water	Surya, Supreeth S, Vidyaniketan Public School
3	10	Chemical Analysis on Vrushabhavati River	Srikrutha U, Ruchitha C Rakesh V, Hithesh K, Vagdevi Vilas School
4	10	Loss of Biodiversity due to floods and chemical pesticides	Rahul S. Srinivas, Meghana V R, Vidyaniketan Public School
5	10	Earthquake foresting through ethology	Madhuvanthi K, Vidyaniketan Public School
6	10	Aquatic Birds	Mandanna. M.M., Subhash N, Vinayaka Public School
7	10	Planktons	Simon Edison L, Vinayaka Public School
8	10	Physico-Chemical Analysis	Monika N, Vinayaka Public School
9	10	Renewable Sources of Energy	Milan N, Kshaman M.D, Vinayaka Public School
10	10	Macrophytes	Dharma Rajan S, Vinayaka Public School
11	10	Carbon footprint	Shushank, K.K.School
12	10	“Ground Water Geophysics”- Quality Deterioration	Chiranthana R R, Manana G, Vidyaniketan Public School
13	10	Recycle to Revive	Palguni, Nida, Sania, Bangalore Girl’s High School
14	10	Phytoremediation of Varthur Lake Using Aquatic Fern	Moulya R, Vagdevi Vilas School, Varthur
15	10	Making of Bioplastic	Thurga Ramani, Balaji B.V, Vagdevi Vilas School, Varthur
16	10	Nagabana matthu Jalasamrakshne	Dishmi A. and Gautham, Vittla P.U. College, High School block, Vittla
17	10	Eruvegalu (Ants)	Fathimah Nasrin and Akshata, Vittla P.U. College, High School block, Vittla
18	10	Lichens as biological indicator	Keerthan R. Verma, Exellent HighSchool, Kallabetu
19	10	Medicinal Plants	Esha Viyonze Pais and Ashwal D'souza, Christ King Englsih Medium High School, Karkala
20	10	Conservation of biodiversity (Anekere -the ancient Lake)	Malden Falluiv and Lizan Perira, Christ King Englsih Medium High School, Karkala
21	10	Mosquito avoiding coil	Dheera, Shenoy & Shushanthj, SVS English Medium H School Bantwal

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	
1	11	Investigatory study on potable water from water purifiers with reverse osmosis	Manan Bhardwaj, Kaushik K.A, Vagdevi Vilas School, Marathalli
2	11	Lake Degradation	Shrihariprem Bharath.A Mahanash Kumar, Vidyaniketan PU/College
3	11	Tulu nadian mane thumbisuva thene habba matthu parisara prajne	Ramya N. and Bhavya Jyothi K, Vittla P.U. College, High School block, Vittla
4	11	Water testing on 9 Lakes and Integrated system for collecting Lake	Sahithi Pingali, Ekta Bhavanasi, Presha Sridhar, Samhita Ramji

		data	Inventure Academy
5	PUC I	Water Resources and Sourrounding Diversity of Hegade Village, Kumta.	Supraja Bhat, Dr.A.V.Baliga PU College, Kumta
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	
1	BE	Adsorption of Hexavalent Chromium from Synthetic Waster Water using Teak Leaves	Sanjay S, Shins T Wilson
2	BE	Heavy Metal remediation from industrial sludge by Phytoextraction	Sanjay S, Madhushree.
3	BE	Quantification and mitigarive measures of Carbon di-oxide emission in JSS Technical Institution campus, Mysore	Sanjay S, Shashikumar P M.
4	BE	Rapid study of house sparrow (Passer domesticus) in Moodbidri, Karnataka	Suraj Prabhakar Naik
5	BE	Treatment of Dairy Wastewater aided with simultaneous Electricity Generation using membrane less Single Chamber Microbial Fuel cell	Sanjay S, Latha
6	UG	Phytodiversity of Nagabanas of Ulaibettu, Mangaluru Taluk	Sai Manish, Darshan S, Ramya Rai P D, and Manohara Acharya
7	UG	Monsoon Flora of Puttige Village	Ramya B, Deepthi M Y, Ramya Rai P D, and Manohara Acharya
8	UG	Wild Fruits of Moodbidri	Likitha D, Spurthi Sagar C, Manohara Acharya, and Ramya Rai P D
9	UG	Floral Diversity of Nethravati Estuarine	B.Anila., Manohara.Acharya and P .D Ramya Rai
10	UG	Fern Diversity of Moodabidri	Shraddha, Manohar Acharya, and Ramya Rai P D
11	UG	Documentation of Folk medicinal uses of Calotropis	C.L.Kalpana and Manohara.Acharya
12	UG	Studies on seasonal variations of water resource and biodiversity in temple ponds of Kasargod district, Kerala	Rakshit Rao M, Pavanraj Rai M, Deviprasad K N
13	UG	Study of Sacred Water Bodies of Kumaradhara River And Natural Ponds in Dakshina Kannada District, Karnataka	Chaithanya Kedila and Deviprasad K.N
14	UG	Documentation of Pteredophytes in the forests of Bisle Ghat region in the south Western Ghats, Karnataka	Harshit kumar, Chinmaya P, Vijendra Prasad and Deviprasad K N
15	UG	Assessment of Seasonal species diversity of butterflies in the Bela village of Kasargod district, Kerala	Meghana, Deviprasad K N
16	UG	Bryophyte Diversity In Evergreen Forests Of Bisle Ghat Region In The Western Ghats, Karnataka	Abhilash.H.A , Sudesh Shastry B.V. and Deviprasad.K.N
17	UG	Ecotourism's support of biodiversity conservation- A case study of Shivarama Karantha Balavan in Dakshina kannada, Karnataka	Divyasusuma E, Pallavi Bhat A, Ashwini H, Deviprasad K N



18	UG	Assessment of the role of temple ponds in water and aquatic biodiversity conservation, Dakshina Kannada district, Karnataka	Adithya Krishna M, Mukesh B, Deviprasad K N.
19	UG	Traditional water harvesting systems and multitudinous roles of temple ponds in Kasaragod district, Kerala	Rakshit Rao M and Pavanraj Rai M
20	UG	Weeds are the needs of today; a study on its ecological and scientific attributes	Nagamma E, Ravikiran, Gowthami Shenava and Siddaraju M. N.
21	UG	Physicochemical analysis of soil from various regions of Puttige village	Gracelyn D S, Apoorva J, Sushmita, Usha B M, Ushan B and Wilson J R
22		Vegetation of Bairampally Village of Udupi District	Abhishek G K Rao and Usharani S Suvarna
23	UG	An assessment of medicinal plants used in a unique month Aati/Ashada in the western ghats part of sullia taluk, Dakshina Kannada District, Karnataka	Krithika A P, Anusha M C and Kualdeepa P P
24	UG	Reviewing the status of biodiversity and socio cultural studies of the sacred groves in Amaramundnoor and Nalkoor villages in Western Ghats parts of Dakshina Kannada district, Karnataka	Srijan S J, Sampanth M R and Kuldeep P P Alva's College
25	UG	Religious culture and rituals among the people linking with medical values of sacred trees in Western Ghats parts of Dakshina Kannada district Karnataka	Yashwitha Rai, Ashwini K, Kuladeep. P. P Alva's College
26	UG	Sacred Groves – their Ecological Value and Contributions to Conservation of Biodiversity in Dakshina Kannada	Sumaiya Siddiqua, Lifam Fathima, Emima David
27	UG	Mangroves-A Fragile Ecosystem its Significance and Conservation	Ansabah Alam, Megha Kejriwal, Emima David
28	UG	“WETLANDS” – FUNGAL DIVERSITY RICH ECOSYSTEMS	DesmaMenezes, Harshitha K. K. and Dr. Maria G. Lobo
29	UG	Bivalve- <i>Perna viridis</i> of Aghanashini Estuary, South Indian west coast	Prerana P Shet, Deepthi Hebbale, M.D. Subash Chandran, and T.V. Ramachandra
	UG	A Comparative study of physicochemical parameters of stream in Puttige village	Varnitha S P, Ranjana R H, Smitha N N, Usha B and Wilson J R
	UG	Avifaunal diversity and richness of kuthethur village, Mangaluru	Donald Preetam Henry, Harish R Bhat and Anita D D Lima
	UG	Biodiversity study of Kanakamajalu	Bharathi Prakash, Nagaratna K A, Ashwini, Deepak and Ranjita
	UG	Distribution and Growth Study of <i>Pernaviridix</i> of Kumta, Karnataka.	Prerana Shet, Dr.A.V.Baliga College pof Arts & Science, Kumta.
	UG	Diversity of butterflies in Vittal Padnur villege of Bantwal TQ	Brinda V Rao, Vikyath S and Prajwal P K, Meenakshi Manjunath
	UG	Diversity of fishes in Kundapur and their uses	Ashika Shetty U and Roopini T
	UG	Diversity study of petridophytes in Kuderamukh national park	Rohini PT and Smitha Hegde
	UG	Documentation of Pteredophytes in the forests of Bisle ghat region in the South Western Ghats, Karnataka	Harshit kumar, Chinmaya P, Vijendra Prasad and Deviprasad K N

UG	Physico-chemical Studies of Aghanashini Estuary of Uttara Kannada District-Karnataka.	Apoorva Hegde, Dr.A.V.Baliga College pof Arts & Science, Kumta.
UG	Phytodiversity of Nagabanas of Ulaibettu, Mangaluru Taluk	Sai Manish, Darshan S, Ramya Rai P D, and Manohara Acharya Alva's College
UG	Phytoremediation of Heavy metals in <i>Colocasia esculenta</i> in different regions of Puttige village	Ponnanna m B, Nischal H R, Nisal P Y, Usha B and Wilson J R
UG	Study on Antimicrobial Property of Spices from Puttige village	Jayasri B, Prashanti P, Shreya Rao G, Siddarth Pai, Ponnanna and Apoorva Jai
UG	Vegetation of Bairampally Vilalge of Udupi district	Abhishek Rao G, Usharani Suvarna S

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	
1	PG	Soil factors affecting the invasive growth of <i>Pteridium Aquilinum</i> (L). Kuhn in Grasslands of Kudremukh National Park	Bhavya G.Bhat, Deeksha D.Sanil, Carol D'Souza, Sahana S.Hegde, Shaiesh Morajkar, K. Shashank Hegde and Smitha Hegde
2	PG	Documentation of Agricultural and Horticultural Crop Varieties in Venoor Village	Bhagyashree. S, Ashalatha and Arunkumar.K
3		Diversity and distribution of naturally occurring Pteridophyte flora in 'shobha vana' Moodbidri - Dakshina Kannada, Karnataka.	Kavana M.G, Amulya N.S, Ashritha C.Shetty, Nethravathi and Arunkumar.K
4		Pteridophytes in arecanut farms of Karkala - Udupi District, Karnataka	Nethravathi, Amulya N.S, Ashritha C.Shetty, Kavana M.G and Arunkumar.K
5		Importance of plants in tulunadu rituals and ceremonials	Bhagyashri, Swasthi and Rajesh B
6		Comparative Studies of Physico-Chemical Parameters of Freshwater Bodies for Two Seasons in Permude Region, D.K. District	Kinaraa Muthamma M, Durga Madhab Mahapatra, Nagalakshamma K.V.
7		Ichthyofunal Study and Human Impact on Freshwater Fishes in Small Stream of Padil,Mangaluru	Glavin Thomas Rodrigues and Anita D D Lima
8		Comparative study on the crab diversity i mangrove and coastal ecosystem	Harshith U P, Apoorva M D, Precilla D'Silva and Anita D D'Lima
9		Phytoremediation of heavy metals in <i>Colocasia esculenta</i> in different regions of Puttige village	Ponnanna MB, Nischal HR, Nisal PY, Usha B, Wilson JR* <i>Dept of Biochemistry</i>
10	PG	Study on Antimicrobial Property of Spices from Puttige village	Jayasri B, Prashanti P, Shreya Rao G, Siddarth Pai, Ponnanna and Apoorva Jai

11		Fluoride concentration in the surface waters of Pulicat lake, south east coast of India	Nirmala. K, S., Srinivasalu and N. K. Ambujam
12		Physicochemical and microbial analysis of water bodies -Moodbidri	Bhavan Bopanna C U, Nisha Poojari, Keerthana Pothery, Miptha Bhayi, Rama Bhat P, Jaydev K, Jenitta E. P. and Raghavendra Rao B.
13		Faunal diversity in home-yard garden, Kuthyar Village, Udupi Dist.	Poojashri and Rajesh B.
14	PG	A documentation of floristic elements along roads of Moodbidri, Dakshina Kannada district, Karnataka	Bharath kumar s, Megha K , Kavya H S, Poojashri , Arpitha D N , Eeshwarappa R and Veerabhadrayya S
15		Soil factors affecting the invasive growth of <i>Pteridium aquilinum</i> (l). Kuhn in grasslands of KUDREMUKH NATIONAL PARK	Bhavya G.Bhat, Deeksha D.Sanil, Carol D'souza, Sahana S.Hegde, Shaiesh Morajkar and Smitha Hegde
16		Butterfly diversity and its host specificity of Permude village in Dakshina Kannada dist.	Nagarathna Balakrishna and Hemachandra
17	PG	Analysis of soil organic matter in some selected areas of vidyagiri campus	Vinay prasad R, Shrinavya shetty, Rashmi K, shruthi S
18	PG	A study of Drosophilla species diversity in Vidyagiri campus	Shreya, divya , shruthi S and Rashmi K
19	PG	Comparative study of paddy (oryza sativa l.) Varieties in Mustagatta Vilege, Bellary District	Shiva kumara T L
20	PG	Effect of cultural and traditional belief leading to a conservation of marsh land and species	Shreya Bhattacharya
21		Ethnomedicinal importance of rare family member of Vitaceae, <i>Cissus elongata</i>	Poornima R. Kunder and Vidya SM
22		Butterfly diversity and their host nectar plants of Permude Village in Dakshina Kannada	Jane Maria D'souza, Besii Mayikho , Precilla D Silva
23		Mushroom cultivation as a sustainable livelihood in South Canara	VIDYA PATALI, DHANYASHREE RAI & CHAITHRA K SHETTY
24		Physicochemical analysis of soil from various regions of PUTTIGEVILLAGE	Gracelyn DS, Apoorva J, Sushmitha, Usha BM, Wilson JR, Usha B
25	PG	Pulp and paper mill dye effluent treatment by electro chemical degradation	Spoorthi, Narayana J Nad Prakash K
26		Study of Fungal diversity of Rizhoshpere soils in different monoculture plantations	Jayasri B, Ramya Rai and Prashanti P
27		A comparative study of physicochemical parameters of streams in Puttige Village	Varnitha SP, Ranjana RH, Smitha NN, Wilson JR, Usha B
28	PG	Physicochemical and microbial analysis of water bodies of Moodbidri	Bhavan Bopanna C.U., Nisha Poojari, Keerthana Pothery, Miptha Bhayi, Rama Bhat P, jayadev K, jenitta E P and Raghavendra Rao
	PG	A study on coffee effluent treatment by using aquatic plants in constructed wetland systems	Narayana J, Spoorthi K J and Spoorthi

	PG	A study on water quality and sediment characteristics of Gudavi wetland in Central Western Ghats region, Shimoga (District), India	Manjunath S and Narayan J
	PG	Documentation of Agricultural and Horticultural crop varieties in Venoor village	Bhagyashree S, Ashalatha and Arunkumar K
	PG	Edaphic factors affecting the invasive growth of <i>Pteridium aquilinum</i> (L) Kuhn in grasslands of Kudremukh National park	Bhagya Bhat G, D'souza C, Shaiesh morajkar and smitha hegde
	PG	Freshwater microalgal diversity of Mangalore region	Alifa severes, shashikiran Nivas, D souza L, smitha hegde
	PG	Pulp and paper mill dye effluent treatment by electro chemical degradation	Spoorthi, Narayana J Nad Prakash K
	PG	Soil profile study of grasslands in Kudremukh National Park threatened by invasive growth of <i>Pteridium aquilinum</i> (L). Kuhn	Deeksha sanil D, Sahana Hegde S, Sahiesh mijakar and Smitha Hegde
	PG	Major Ion Chemistry of Underground Water of Residential Part near to Industrial Area of Kumta Town, Uttara Kannada District-Karnataka.	Mahesh Shanbhag & Anurag.Naik Depart of Studies in Analytical Chemistry, Dr.A.V.Baliga College of Arts & Science, Kumta.
30		Documentation of marine microalgae at various depths along the coast of Dakshina Kannada	Justin Vishwas, Dhanush and Roopa. S
31		Biodegrading potentiality of Laccase producing endophytic fungi associated with <i>SALACIA CHINENSIS</i> LINN.	Sana Sheik, K.R. Chandrashekar.
32		Tree, people and city: A study on green cover of rapidly urbanising Mangalore city	Sangeeta S, Smitha hegde

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	
1	FAC	Ethnomedicinal importance of rare family member of Vitaceae, <i>Cissus elongata</i> Roxb.	Poornima R. Kunder and Vidya
2	FAC	An indigenous saline resistant organic rice tract in North Kerala- Practices and Challenges	Chandramohan K T, Sreeja P
3	FAC	Economic evaluation an aid to manage wetlands	Sreeja P, Chandramohan K T
4	FAC	Zooplankton diversity in some lentic water bodies of Karwar	B.Vasanthkumar. & E.B.Sedamkar
5	FAC	Environmental literacy- a response A case of Dakshina Kannada	Rose Veera D Souza, Marsha Rhea Rodrigues, Melreeve Evelon Rodrigues, Leroy D Souza
6	FAC	Experience of involving undergraduate students in biodiversity conservation awareness programs	Deviprasad K N

7	FAC	Riparian Diversity: Documentation and Conservation Strategy in Kumaradhara River Basin	Rajesh B
8	FAC	Euglenoids distribution in relation to water quality of Konandur Pond, Thirthahalli Taluk, Karnataka	NAGARAJ PARISARA AND J.NARAYANA
9	FAC	Fluoride concentration in the surface waters of Pulicat Lake, South East Coast of India	Nirmala.K1, N.K.Ambujam2 and S.Srinivasalu
10	FAC	Seasonal variations in physico-chemical characteristics of water quality of Gurupura River in Mangalore, South Coast of India	Jayalatha N. A and Veena Kumara Adi
11	FAC	Study on fungal diversity of rhizosphere soil in different monoculture plantations	B. Jayashri, M. Ramya Rai and P. Prashanthi
12	FAC	Benefits and challenges of desiltation and development on the avifauna of Anekere pond, Karkala, Udupi district, Karnataka.	Ishwara Bhat P, B. B. Hosetti
13	FAC	Adsorption of dyes from aqueous solutions onto tur dal husk: Characterisation, Equilibrium and Kinetic studies	Ahalya N
14	FAC	Biodiversity study of Kanakamajalu	Bharathi Prakash, Nagaratna K.A, Ashwini, Deepak and Ranjitha
15	Fac	Flora Diversity of Netravathi Estuarine	Anila B, Manohara A, Ramya Rai P D.
16	Fac	Genetic diversity and salinity tolerance studies in 18 rice varieties grown in Dakshina Kannada	Smitha Hegde, Ramya P V
17	FAC	Phytoplankton population and analysis : Varada river water	Sedamkar E B, vasanthkumar B

<b>Parallel Session IX</b>		<b>TECHNICAL SESSION XIII: RESEARCH SCHOLARS</b>	
<b>29-12-2016</b>		Venue: Kumaradhara Hall, UG Building, Room No. 406	
11 30 am -5 pm		Chair: Rajasri Ray, Sachin, Nimish, Pavithra	
01	<i>In-vitro</i> anti-inflammatory and anti diabetic studies of <i>Myristica fatua</i> var. <i>magnifica</i> (Beddome) Sinclair, an endemic swamp species.		Viveka M. R. & K. R. Chandrashekar
02	Studies on biodiversity and spatial distribution of rotifers, cladocerans and copepods in Certain wetlands of Cachar district, Assam		Sulata Kar, Devashish Kar
03	Studies on seasonal variations of Zooplanktons in a perennial water body of silchar city, assam		Sulata Kar, Devashish Kar
04	Diel and Seasonal variation of zooplankton from the freshwater pond of north tripura district, india		Uma Das, Devashish Kar
05	Studies on biodiversity and spatial distribution of rotifers, cladocerans and copepods from Chatla haor seasonal floodplain wetland of Assam		Uma Das, Devashish Kar
06	Comprehensive analysis of rotifer assemblage in relation to physico chemical parameters in an		Maibam Bimola, O. Shashikumar Singh and Devashish Kar



	irrigation canal at Phubala, Bishnupur district, North East India Manipur	
07	Research Perspective along Coastal India with reference to decadal change in coastal ecosystems	Mahabaleshwar R. Hegde
08	Human-Carnivore conflicts: A case of Shettihalli village in Shettihalli wildlife sanctuary, Shimoga, Karnataka	Rohan Puranik D and Vijayakumara
09	A Study on water quality and sediment characteristics of Gudavi wetland in Central Western Ghat region, Shimoga(Dist), India	Manjuath S and J Narayana
10	<i>Tetrahymena thermophila</i> : A whole cell biosensor for toxicity assessment of Mercury	Santosh Kumar, Daizy Bharti, Khushboo Kashyap, Harpreet Kaur, Komal Kamra, Antonietta La Terza
11	Western Ghats-A biodiversity hotspot for ciliated protists	Santhosh Kumar, Daisy Bharti, Harpreet kaur ,Khusboo khashyap, Komal kamra
12	Biochemical characterisation and identification of bacteria isolated from Mithi river in Mumbai	Shruti Handa and Rahul Jadav
13	Fluoride concentration in the surface waters of Pulicat lake, south east coast of India	Nirmala. K, S. Srinivasalu and N. K. Ambujam
14	Land use assessment and urban growth monitoring in Hyderabad region, India.	Chandan, M. C, Vinay, S., Bharath H. Aithal, Ramachandra, T.V.

<b>Parallel Session X</b>	<b>TECHNICAL SESSION XIV: SCHOOL TEACHERS</b>
<b>29-12-2016</b>	Venue: Palguni Hall , UG Building, Room No. 102
11 30 am -5 pm	Chair: Ahalya N, Vinay S, Vidyadhar Durgekar, Deepthi

<b>TECHNICAL SESSION XV: POSTER SESSION (Books and Posters)</b> <b>Ravishankar, Gayatri Naik, Vishnu D Mukri, Sreekanth Naik</b>	
<b>Category</b>	<b>Chair and Co-Chair</b>
<b>VIII Standard</b>	P S Harikumar, Dakshayini R. Murthy, P V. Gouda, Sudarshan Bhat
<b>IX Standard</b>	Alfred Wüest, Mrs. Alfred Wüest, Sreekanth Naik, Aftab
<b>X Standard</b>	Timo Huttula, Mrs. Timo Huttula, Gayatri Naik, Asulabha K S
<b>XI and XII</b>	S N Prasad, Kumar Hegde, Bharath Settur, Vishnu, Tara
<b>UG</b>	Sri Vidya, Harish R. Bhat, Sreevalli H. Bhat, Bhargavi
<b>PG</b>	Uma Mohan, Nagaratna, Sincy V
<b>Research Scholars</b>	M A Khan, Dr. Pushpendra, Rajasri Ray, Nimish, Pavithra
<b>EWRG</b>	Dr. Devi Prasad, Sri Niwas Singh, B M Kuamaraswamy, Vivek Alva, Kurian

<b>TECHNICAL SESSION XV: POPULAR LECTURES</b>	
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
<b>CULTURAL DIVERSITY</b>	
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
<b>FOOD DIVERSITY OF SOUTH CANARA</b>	
8 30 – 9 15	Venue: Sundari Ananda Alva Bhavan, Alva's College, Vidyagiri, Moodbidri
	Chair: Maiya, Rajesh, Jayadev, Srividya, Sudarshan Bhat
8 30	<b>DINNER</b>

<b>30 December 2016</b>	<b>TECHNICAL SESSION XVI: PANEL DISCUSSION</b>
9-10.30 am	Venue: V.S. Acharya Auditorium, <b>Alva's College</b> , Vidyagiri, Moodbidri
	Chairman: <b>M D Subash Chandran</b> , Smitha Hegde, Ahalya N
<b>Panel Members:</b> B M Kumaraswamy, Harish R Bhat, Suresh Heblikar, T V Ramachandra, Devashish Kar, A L Ramanathan, Rajasekara Murthy, Hari Kumar, Rajesh, Vivek Alva	
10.30-11	<b>TEA</b>
<b>30-12-16</b>	<b>LAKE 2016 – POLICY &amp; ADVOCACY</b>
11-11.15 am	LAKE 2016 FORUM: RECOMMENDATIONS – M D Subash Chandran
11- 1 noon	Shri. Anil Madhav Dave, Hon. Min. of Environment, Forests and Climate Change, GoI
	Sri. Anil Dave - Interactive session with Lake 2016 Forum
1-2	<b>LUNCH</b>
<b>30-12- 2016 2-4 pm</b>	<b>TECHNICAL SESSION XVI: RIVERS, HIGH ALTITUDE LAKES, ..</b>
	Venue: V.S. Acharya Auditorium, <b>Alva's College</b> , Vidyagiri, Moodbidri
	Chairman: Devashish Kar, Dr. P V Gouda, Harish R Bhat, HariKumar
<b>2-2 30 pm</b>	Interlinking of Rivers: Ecological Implications – B M Kumaraswamy
<b>2 30-3 pm</b>	Water quality assessment of high altitude Himalayan lakes– A L Ramanathan
<b>3– 3 30 pm</b>	Need for Restoration of the Primeval Forest of Western Ghats – M D Subash Chandran
3 30 -4	<b>TEA</b>

<b>30-12- 2016</b>	<b>VALEDICTORY SESSION</b>
	Venue: V.S. Acharya Auditorium, <b>Alva's College</b> , Vidyagiri, Moodbidri
4 - 6 PM	<b>Lake 2016 – Valedictory &amp; Presidential Address</b>
	<b>President:</b> Dr. M Mohan Alva, Chairman, Alva's Education Foundation
	Chief Guest
	Shri. Anil Madhav Dave, Hon. Min. of Environment, Forests and Climate Change, GoI
	Gracious Presence and Blessings
	Shri. Shri. Vidya Prasanna Teertha Swamiji, Sri Samputa 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
	<b>CULTURAL DIVERSITY</b>
6 00 -7 30	Venue: V.S. Acharya Auditorium, <b>Alva's College</b> , Vidyagiri, Moodbidri
	Chair: M A Khan, Ravishankar, Bhargavi
6 00 -7 30	Cultural Diversity of India
	<b>FOOD DIVERSITY OF SOUTH CANARA</b>
7 30 pm	Venue: Sundari Ananda Alva Bhavan, <b>Alva's College</b> , Vidyagiri, Moodbidri
	Chair: Maiya, Rajesh, Jayadev, Srividya, Sudarshan Bhat
7 30 pm	<b>DINNER</b>

31-12- 2016	<b>Lake 2016 – MOOBBIDRI, LAKE REJUVENATION</b>
Venue: Thousand Pillar Jain Temple, Moodbidri	
<b>Gracious Presence and Blessings</b>	
Shri Shri Gangadharendra Sarswati Swamiji, Sirsi Shri Shri Bhattarakara Charukeerthi Pandicharayavarya Swamiji	
<b>President:</b> Dr. Mohan Alva, Chairman, Alva's Education Foundation	
<b>Guest of Honour:</b>	
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	

### Address for Communication

<b>Dr. Kurian</b> Working President, Lake 2016 Principal, Alva's College Vidyagiri, Moodbidri, Dakshina Kannada – 574227 Moodbidri, Karnataka, India, Phone: 08258-250275, 236531, 08258- 250200 to 207, Cellphone: +919740668967 Fax: 08258-237341, principal@alvascollege.com <a href="http://alvascollege.com/upcoming-events/lake2016">http://alvascollege.com/upcoming-events/lake2016</a>	<b>Dr. T.V. Ramachandra</b> Chairman, Lake 2016 Energy and Wetlands Research Group, TE 15, Centre for Ecological Sciences Third Floor, E wing, New Bioscience Building [Near D Gate], <b>Indian Institute of Science</b> , Bangalore 560012 Phone: 91-080-22933099/2293 3503 (extn. 101/107) E mail: cestvr@ces.iisc.ernet.in, lake2016@ces.iisc.ernet.in Lake2016symposium@gmail.com Conference Web: <a href="http://ces.iisc.ernet.in/energy">http://ces.iisc.ernet.in/energy</a> <a href="http://wgbis.ces.iisc.ernet.in/energy/lake2016/index.php">http://wgbis.ces.iisc.ernet.in/energy/lake2016/index.php</a>
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*āpo vāvānnād bhūyasyaḥ | tasmād yadā suvṛṣṭir na bhavati vyādhīyante prāṇā annaṁ  
kanīyo bhaviṣyatīti | atha yadā suvṛṣṭir bhavaty ānandinaḥ prāṇā bhavanty annaṁ bahu  
bhaviṣyatīti | āpa evemā mūrtā yeyaṁ pṛthivī yad antarikṣaṁ yad dyauryat parvatā yad  
devamanuṣyā yat paśavaś ca vayāṁsi ca tṛṇavanaspatayaḥ śvāpadāny  
ākīṭapataṅgapipīlakam | āpa evemā mūrtāḥ | āpa 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*