

LAKE 2012

National Conference on Conservation and Management of Wetland Ecosystems



06 -08, November 2012

Organised by

School of Environmental Sciences

Mahatma Gandhi University, Kottayam, Kerala

In association with

Energy and Wetlands Research Group, Centre for Ecological Sciences, Indian Institute of Science, Bangalore

Advanced Centre of Environmental Studies and Sustainable Development, Mahatma Gandhi University, Kottayam, Kerala

Venue: School Environmental Sciences (SES)

School of Chemical Sciences (SCS) (6th November forenoon session)

Programme Schedule

Day I, Nov 06, Tuesday

Venue: School of Chemical Sciences

8.00-9.00 AM : **Registration**

9.15-10.15 AM : Inaugural Session

10.15-11.00 AM : Plenary lecture I : Dr. V. S. Vijayan

Former Director, SACON, Coimbatore

Lakes and Wetlands

11.00-11.15 AM : Tea

Technical sessions

11.15-12.45 PM : Technical Session-I

Chair: Dr. K.P. Joy

Member, Kerala State Environment Impact Assessment Authority

11.15-11.45 Invited Talk I: Dr. T. V. Ramachandra

Centre for Ecological Sciences, IISc., Bangalore

Conservation and Management of Wetlands: Requisite Strategies

11.45-12.15 Invited Talk II: Dr. Sultan Ahmed Ismail

Head, Dept. of Biotechnology, New College, Chennai

Soil Health - An Indian Earthworm's Eyeview

12.15-12.45 dra Prasad

Invited Talk III: Dr. S. Naren

International Institute of Information Technology, Hyderabad

Wetland conservation- Marrying Open source geospatial technology with citizen centric approaches

Walk to School of Environmental Sciences

12.45 - 1.45PM : Lunch

Hall – I		: Main Seminar Hall, SES (Parallel session)
1.45 – 3.45	PM	: Technical Session II Terrestrial Biodiversity
		Chair : Dr. Shaju Thomas
		Professor, Nirmala College, Muvattupuzha
1.45-2.15 PN	Λ	: Invited lecture IV: Dr. Mohandas,
		WWF, Coimbatore, India
2.15-2.25	L 01	Forest Endemism in Relation to Hydrology of Western Ghats
2.25-2.35	L 02	Subash Chandran M.D., Rao G.R, Rajasri Ray and Ramachandra T.V. Swarming of the Termite Coptotermes heimi in Northeastern Puducherry Region A.K. Harit, S. Gajalakshmi, and S. A. Abbasi
2.35-2.45	L 03	Status of Forests in Shimoga, Central Western Ghats Sudarshan P. Bhat , Subash Chandran M D and Ramachandra T V
2.45-2.55	L 04	Ecological Importance of Relic Forest Patches – from Species to Ecosystem **Rajasri Ray, M.D. Subash Chandran and T.V.Ramachandra**
2.55-3.05	L 05	A Study on the Invasion of <i>Clidemia hirta</i> (L.) D. Don in the Ponthenpuzha Reserve Forest of Kottayam District, Kerala
0.05.045		Deepamol P.K., Ramesan M., Jayasooryan K.K., Joby Paul, John C.M and V.P. Sylas
3.05-3.15	L 06	Association of a Mangrove Dwelling Euptyctime Oribatid Mite, <i>Rhysotritia ardua</i> (C.L. Koch, 1841) (Acari :Oribatei) with the Epiphytic Alga, <i>Microspora</i> Sp. <i>P.K Syamjith*</i> and <i>N. Ramani</i>
3.15-3.25	L 07	Edible Biodiversity of Kurumba Tribes in the Buffer Zone of Silent Valley National Park, Kerala
2.25.2.25	1 00	Anhjali, S. N, Sankar, S and Veena George, M
3.25-3.35	L 08	Habitat Preference of Asian Elephant, <i>Elephas maximus</i> outside the Protected Areas in the Fragmented Landscape of Munnar, Southern Western Ghats - A Geospatial Approach
2.25.2.45	1.00	Rameshan M., Arijit Roy, Ramasamy E. V.
3.35-3.45	L 09	Landscape Dynamics of Uttara Kannada District *Bharath Setturu* and Ramachandra T V*

3.45 - 4.00 PM : Tea : Mini Seminar Hall, SES (Parallel session) Hall - II 1.45 - 3.45 PM : **Technical Session III** : Aquatic Biodiversity Chair: Dr. Sankaran Unni Former Professor & Head, Dept. of Botany, Govt. College, Chindwada, MP 1.45-1.55 L 10 Diversity and Distribution of Aquatic Insects in Aghanashini River of Central Western Ghats, India **Balachandran, C.,** Dinakaran, S, Subash Chandran, M.D. and Ramachandra, T.V 1.55-2.05 L 11 Seasonal Wetland Flora of the Laterite Plateaus of Coastal Uttara Kannada **G.R. Rao.**, G. Krishnakumar, M.D. Subash Chandran and T.V. Ramachandra 2.05-2.15 L 12 Conservation Strategies for the Hygrophilous pteridophytes of Central Western Sumesh N. Dudani., M. K. Mahesh, M. D. Subash Chandran and T. V. Ramachandra 2.15-2.25 L 13 Preliminary Documentation of Aquatic Macrophytes of Kole Wetlands of Malappurm District, Kerala **Jyothi P.V.**, S. Suresh Kumar 2.25-2.35 L 14 Comparative Analysis of Morphometric Characters in the Population of Golden Mahseer, Tor putitora (Hamilton) (Cyprinidae: Pisces) of a Man-Made Wetland and a Natural Stream in Himachal Pradesh, India. **Rinku Arora** and J.M. Julka Floristic Diversity in Wetland Rice Ecosystem of Thiruvananthapuram District 2.35-2.45 L 15 Sajith Babu, D., Sansamma George and Nishan, M.A. Ecology of Clam Bed - Hydrographic Conditions Influencing the Density and 2.45-2.55 L 16 Distribution of Venerid Clam Paphia Malabarica in two Lake Systems. **Ampili.M.**, and Shiny Sreedhar K. 2.55-3.05 L 17 Phyto Diversity and Conservation of Pulicat Lake- Andhra Pradesh **S.K.M.Basha**, E.Rajya Laksmi Phytoplankton Diversity for Monitoring Freshwater Reservoir of Belgaum 3.05-3.15 L 18 District, Karnataka State B.S. Giriyappanavar and **R.R.Patil** 3.15-3.25 L 19 Preliminary Report on Physico-Chemical Characteristics and Algal Biodiversity of Temple Tanks of Belgaum and Dharwad Districts, Karnataka State. B.S.Giriyappanavar and **P.B.Shivalli** 3.25-3.35 Aguatic Plant Diversity of Ponds in Palakkad District; Kerala L 20 **Bhagyaleena. P** and R. Gopalan Abundance Patterns and Distribution of Annelids In Kundalika Estuary Along the 3.35-3.45 L 21 Northwest Coast of India Rakesh P.S, Ajit Ambekar, Soniya Sukumaran and S.N. Gajbhiye 3.45-3.55 L 22 Influence of Climate Variability on Productivity of Rice **Kishlay Kumar Singh**, Surender Paul

3.45 - 4.00 PM : Tea

Hall – I: Main Seminar Hall, SES (Parallel session)

4.00 - 5.20 PM		: Technical Session IV : Waste management
		Chair: Dr. George Chakkachery
		Executive Director, Suchitwa Mission, Govt. of Kerala
4.00-4.10	L 26	Assessment of impact of the Vermicompost Generated from Allelopathic Weed <i>Lantana camara</i> on Seed Germination and Seedling Growth
4.10-4.20	L 27	Naseer Hussain, M.Karthikeyan, S. Gajalakashmi and S.A. Abbasi Environmental Implications of Mismanagement of Municipal Solid Waste
4.20-4.30	L 28	Shwetmala, H N Chanaky, T V Ramachandra Feasibility Studies of Selected Plants in the Treatment of Water Contaminants
4.30-4.40	L 29	Snisha S., Alni C. Ali, Harilal, C.C. and Pradeep Kumar, G. Role of Phytoremediation Technique in Industrial Wastewater Treatment Using Constructed Wetland J.S.Sudarsan, V.T.Deeptha, Deepak Maurya
4.40-4.50	L 30	E-Waste: An Ever-Growing Global Threat Against Sustainable Development Regi P. Mathew and Ignatius Antony
4.50-5.00	L 31	Survival of <i>Eudrilus eugeniae</i> in Oil Contaminated Soil Sujatha S. , Nasheeda Beevi A. N., And E.V. Ramasamy
5.00-5.10	L 32	Sustainable Algal Scum Management and Wastewater Treatment in Bangalore
5.10-5.20	L 33	Durga Madhab Mahapatra , Chankaya H N and Ramachandra T V Phytoremediation of Leachate from Municipal Dump Yard in a Constructed Wetland Planted with <i>Colocasia esculenta</i> Shamili, V.K., Sajithkumar, K.J., Arun Babu, V., Ramasamy, E.V.

Hall - II		: Mini Seminar Hall, SES (Parallel session)
4.00 - 4.30	PM : Te	echnical Session III continues Aquatic Biodiversity
4.00-4.10	L 23	Diversity of Monocotyledonous Plants of the Water Bodies of Bangalore and Adjacent Areas <i>Ravi, G., Haridasan, V.K.</i>
4.10-4.20	L 24	Seasonal Variation and Biodiversity of Phytoplankton in Parambikulam Reservoir, Western Ghats, Kerala K.M. Mohamed Nasser and S. Sureshkumar
4.20-4.30	L 25	Phytoplankton population of wetlands adjacent to sea food processing industries in Vembanad lake ecosystem Vidya. V, Sumathy K and G. Prasad
Hall – II		: Mini Seminar Hall, SES (Parallel session)
4.30 - 5.30 PM		: Technical Session V Avian Biodiversity
		Chair : Dr. Punnen Kurian
		Associate Professor, St: Mary's College, Manarcad
4.30-5.00 P	PM	: Invited lecture V : Dr. E. A. Jayson
		Scientist, KFRI, Peechi
		Diversity of Birds in Kerala, India
5.00-5.10	L 34	Abundance, Distribution and Conservation of Wetland Birds in the Kole Lands of Kerala
5.10-5.20	L 35	Chandrakasan Sivaperuman, and EA Jayson Avifauna Across a Dying Water Body: From the Perspective of Birds Diversity to Assess the Habitat of the Haihole Tank in Shettihalli Wildlife Sanctuary
5.20-5.30	L 36	Shrinivas Kadabagere and Vijaya Kumara Santragachhi Jheel: A Migratory Birds Paradise Restored Devsena Roychaudhury and Arjan Basu Roy

5.20 to 6.20 PM: POSTER session

P 01	Household Consumption Pattern in Pathanamthitta Districts – An Assessment
	John Richard Thomas, P. Padma , E.V Ramasamy , MuralivallabhanT. V , A.P Thomas
P 02	Landuse as a Determinant in Carbon Source or Sink Capacity of Soil from a Climate
	Change Perspective: A Case Study
	Sreekanth N.P, Babu Padmakumar, Shanthi Prabha V, Renuka R, A.P Thomas
P 03	Survival Chances Of Colony Forming Microcystis Sp And Scenedesmus Sp In Fresh
F 03	Water Lake And Pond
	Aneesh C, and Manilal V. B
L 04	Geochemical Signature of a High Altitude Wetland in Kerala
	Anisha P A ; Pragath M and Girish Gopinath
P 05	Estuarine Bird Conservation in Uttara Kannada
	Shrikant Naik, M.D. Subash Chandran and T.V. Ramachandra
P 06	Roadside Trees of Uttara Kannada District, Karnataka
	Vishnu D.M., Rao G R, M.D. Subash Chandran and T.V. Ramachandra
P 07	In Situ Conservation of Traditional Rice Varieties of Uttara Kannada
	Gayatri H. Naik, M.D. Subash Chandran and T.V. Ramachandra
	Toxicity Study due to Accumulation of Heavy Metals in Sediment Ecosystem of
P 08	Bhavan's College Lake of Andheri, Mumbai
	P.U. Singare , M.S.Talpade, V.G.Bhawe and D.V.Dagli
P 09	Microhabitat Influence on Diatom Distributional Pattern in Diverse Ecosystems
	Alakananda, B., Mahesh, M.K. and Ramachandra T.V

8.00-9.00 PM : Dinner (SES)

Day 2, November 07, Wednesday

Hall – I		: Main Seminar Hall, SES (Parallel session)
9.00-10.40 AM		: Technical Session VI : Pollution – I Chair : Dr. Kamalakshan Kokkal Joint Director, KSCSTE, Thiruvananthapuram
9.00-9.30AM	I	: Invited lecture VI : Dr. Ligi Philip Professor, IIT Madras Bioremediation of Endosulfan Contaminated Soils
9.30-9.40	L 37	Environmental Status of the Kavvayi Wetland System Shiji.M, Bindhya Mol. K and Harikumar. P. S
9.40-9.50	L 38	Atmospheric Pollution and its Correlation with Transportation Sector in South Kerala P.Kalajarasan and B.G.Sreedevi
9.50-10.00	L 39	Pesticide Contamination and Bacterial Pesticide Resistance in the Soils of Selected Panchayats of Wayanad District, Kerala Chandini P.K Jaysooryan K.K Rinoy Varghese K. P. Smitha and Sylas V.P
10.00-10.10	L 40	Mercury Pollution in the Lakes, Rivers and Estuaries of India Navya Cherian and Mahesh Mohan
10.10-10.20	L 41	Studies on the Effect of Crude Plant Extracts on the Control of Mosquito Vectors **Rathy M.C., Sajith, U. and Harilal, C. C.**
10.20-10.30	L 42	Geochemistry and Heavy Metals in the Soils of Kuttanad Agricultural Ecosystem, Kerala Kannan V.M., Toms Augustine , Navya Cherian, Mahesh Mohan
10.30-10.40	L 43	Removal of Selected Heavy Metal Ions Using Metal Tolerant Bacterial Isolates Krishna M.P, Rinoy Varghese, Arun Babu V Jayasuryan K.K, Jyothy S. and A.A. Mohamed Hatha

10.30-10.45 AM : Tea

Hall – II : Mini Seminar Hall, SES (Parallel session)

9.00 – 10.30 PM : Technical Session VII- Climate Change and coastal wetlands

Chair: Dr. M.P. Muraleedharan

Former Director Geological survey of India, Kerala

9.00-9.30 AM : Invited Lecture VII : Dr. J. Ravindran

Scientist, NIO, Kochi

Climate and Coral Reefs

9.30-9.40 L 44 Mangrove Associated Molluscs of India

M.Boominathan, G. Ravikumar, M.D. Subash Chandranand T.V. Ramachandra

9.40-9.50 L 45 Carbon Emissions due to Electricity Consumption in the Residential Sector

Vishnu Bajpai, Gouri Kulkarni, Ramachandra T. V

9.50-10.00 L 46 Carbon Footprint of Municipal Solid Waste in Greater Bangalore

Gouri Kulkarni, Vishnu Bajpai, Ramachandra T. V

Hall – II : Mini Seminar Hall, SES (Parallel session)

10.00 - 10.30 AM : Technical Session VIII Green Technology

Chair: Dr. C. T. Aravindakumar

Director, School of Environmental Sciences, M. G. University

10.00-10.30 AM : Invited Lecture VIII : Dr. V.B. Manilal

Scientist, NIIST, Thiruvananthapuram

Anaerobic Processes Coupled Green Technologies

10.30-10.45 AM : Tea

Hall – I		: Main Seminar Hall, SES (Parallel session)
10.45 -12.15P	PΜ	: Technical Session IX Limnology
		Chair : Dr. V Sivanandan Achari
		School of Environmental Studies, CUSAT
10.45-11.15P	M	: Invited Talk IX: Dr. K.V. Jayakumar
		Professor, NIT, Warangal
11.15-11.25	L 55	A Trophic Flow Model of the Karapuzha Reservoir, Wayanad, Kerala Preetha Panikkar , Feroz Khan, Sharma A.P., Jha, B.C.
11.25-11.35	L 56	Preliminary Work on Physico-Chemical Properties of Two Lakes of Navalgund, Dharwad District, Karnataka, India B.S. Giriyappanavar and R.V. Airsang
11.35-11.45	L 57	The Lentic Ecosystem of Two Lakes in Puducherry Union Territory
1145-11.55	L 58	Ramamoorthy D A Threat of Sedimentation and Aquatic Weed Growth for Sustainance of Some Lakes and Reservoirs in Maharashtra
11.55-12.05	L 59	M I Shaikh, M B Nakil, S K Kalvit Sediment resuspension driven internal phosphorous loading in a shallow
12.05.12.15	1.70	S. Panigrahi, S. N. Bramha, A. K. Mohanty, M.K.Samantara, T. Ramesh & K. K. Satpathy
12.05-12.15	L 60	Landscape dynamics, Rainfall and Stream Flow: Linkages Anindita Dasgupta and T. V. Ramachandra

12.15-1.15 PM : Lunch

Hall – II : Mini Seminar Hall, SES (Parallel session)

10.45 -12.05 PM : Technical Session VIII Green Technology - continues		
10.45-10.55	L 47	Household Sanitation Device for Decentralized Sewage Treatment
10 == 11 0=		J. Ansari, V.B.Manilal, Ajit Haridas, Ajayan M.S
10.55-11.05	L 48	Use of Raman Microspectroscopy to Detect Changes in Lipid Pools of Microalgae
		Supriya G., Asulabha K.S. and Ramachandra T.V
11.05-11.15	L 49	Nutrient Removal of Secondary Treated Water Through Algal Ponds
		Sincy Varghese, Durga Madhab Mahapatra, and Ramachandra T V
11.15-11.25	L 50	Effect of Salinity Concentrations on Growth Rate and Lipid Concentration
		in Microcystis Sp., Chlorococcum Sp. And Chaetoceros Sp.
		Asulabh K S , Supriya G and Ramachandra T V
11.25-11.35	L 51	Performance of Salvinia (Salvinia Molesta, Mitchell) As a Bioagent for Very
		Rapid Treatment of Septic Tank Effluents in the SHEFROL® Bioreactor
		M. Ashraf Bhat, Tasneem Abbasi*, and S. A. Abbasi
11.35-11.45	L 52	A Low-Energy Non-Polluting Process For The – Extraction Of Volatile
		Fatty Acids From Ipomoea (<i>Ipomoea Carnea</i>)
		M. Rafiq Kumar, Tasneem Abbasi*, and S. A. Abbasi
11.45-11.55	L 53	Post Harvest Treatment of Water Hyacinth Biomass For Biogas Production
		Arya Bhasi , Dersana.B, Shabeer Ali.H, B.Krishnakumar
11.55-12.05	L 54	Phytoremediation of Cadmium from Aqueous Solutions
		Ignatius Antony,Arun Babu V, Neethu Joy and E.V.Ramasamy

12.15-1.15 PM : Lunch

1.15 PM To Vembanad Lake

2.00 pm - 5.30 pm Boat Session "Conference on Cruise"

2.15 – 4.30 PM : Technical Session - X : Vembanad Lake

		: Chair : Dr. A.P. Thomas Director, ACESSD, M.G. University
2.15 - 3.00)	: Plenary Lecture II : Dr. Ajaykumar Varma Scientist, CESS, Thiruvananthapuram A Glimpse of the Vembanad Lake Environment
3.00-3.10	L 61	Glimpses into the Evolution of Vembanad Lake: A Ramsar Site Along the South West Coast of India B. Ajay Kumar, Mahesh Mohan and M. S. Shylesh Chandran
3.10-3.20		D. Ajay Kumar , Manesh Mohan and W. 3. 3hylesh Chandran
3.20-3.30	L 63	An NGO's Effort for the Conservation of Vembanad Wetlands Unnikrishnan N. and Sreekumar B.
3.30-3.40	L 64	Participatory Mapping of Natural Resources in Vembanad Lake Ashish Mathew George and M.C Kiran
3.40-3.50	L 65	An Assessment of Heavy Metal Accumulation and their Dynamics in Water, Sediment and Different Aquatic Edible Species in Vembanad Lake, Southwest Coast of India Reshma Ramachandran and Anisa.B. Khan
3.50-4.00	L 66	A Study on Accumulation of Heavy Metals (Zn, Cd, Pb And Cu) in Fishes and Associated Community Health Risk from Cochin Estuary Jayasooryan K.K, Shylesh Chandran, M.S, Mahesh Mohan and Ramasamy, E.V
4.00-4.10	L 67	Spectral discrimination and Characterisation of Aquatic Macrophyte Communities in Part of a Ramsar Site of Kerala State, India Using World View-2 Satellite Image John Richard, John C. M. and Sylas V. P.
4.10-4.20	L 68	Vembanad Wetland as a Source of Livestock Feed Biju P.
4.20-4.30	L 69	Spatial and temporal variations of water quality and heavy metal concentration in Vembanad Lake, Kerala Shylesh Chandran M.S, Mahesh Mohan, Jayasooryan K.K. and Ramasamy, E.V
4.30-4.40	L 70	Mercury pollution in the Vembanad Lake E.V. Ramasamy, Mahesh Mohan, Shylesh Chandran M.S. and Jayasooryan KK

5.30PM : Reaching Kottayam Club, Kumarakom

6.00- 7.00 PM : Cultural Programme

7.00-8.00 PM : Lake Side Dinner at Kottayam Club

Day 3, Nov 08, 2012

Hall – I : Main Seminar Hall, SES (Parallel session)

9.00-10.40 AM		: Technical Session XI Application of GIS in wetland management
		Chair : Dr .S. Narendra Prasad
		International Institute of Information Technology, Hyderabad
9.00-9.30 Al	И	: Invited Lecture X Dr. A. R.R. Menon
		Former Head, Ecology Division, KFRI, Peechi
		Geospatial Evaluation of Wet Land Biodiversity Using Remote Sensing and GIS
9.30-9.40	L 71	Resource Information System for Kundapallam (Kd-1) Watershed in the Nilgiris District Using Remote Sensing, GPS and GIS <i>P.Rajesh Prasanna</i> , S. Evany Nithya S. Eswaramoorthi
9.40-9.50	L 72	Status of Wetlands in Urbanising Tier II Cities of Karnataka: Analysis Using Spatio-Temporal Data **Bharath H Aithal**, Durgappa S. and Ramachandra T V**
9.50-10.00	L 73	Multi-Sensor, Multi-Resolution Image Fusion for Monitoring of Wetlands <i>Uttam Kumar</i> , <i>Anindita Dasgupta, Chiranjit Mukhopadhyay N. V. Joshi and T. V. Ramachandra</i>
10.00-10.10	L 74	Temporal Analysis of Water Bodies in Ten Mega Cities of India Sowmyashree M V and Ramachandra T V
10.10-10.20	L 75	Spatio-Temporal Distribution Mapping of Aquatic Macrophyte Communities in Kuttanad Wetland Ecosystem John C. M.*, Sylas V. P. and Unni K. S.
10.20-10.30	L 76	Applications of GIS And Remote Sensing for Mangrove Management in Uttara Kannada, Karnataka Prakash N. Mesta , Settur Bharath, Vishnu D.M., Mahima Bhat, M. D. Subash Chandran and T. V. Ramachandra
10.30-10.40	L 77	Spatio-temporal dynamics of Raichur City Vinay S , Bharath H Aithal, and Ramachandra T V

10.45-11.00 AM : Tea

Hall – II : Mini Seminar Hall, SES (Parallel session)

9.00-10.40 AM : Technical Session XII: Natural and Anthropogenic Disasters

Chair: Dr. A.P. Pradeepkumar

Associate Professor, Dept. of Geology, University of Kerala

9.00- 9.30 AM		: Invited lecture XI : Dr. Murali Das Former Scientist, CESS, Thiruvananthapuram
		Lightning, the Phenomenon and Mechanisms of Accidents
9.30-9.40	L 78	Societal Risk Assessment of Toxic Chlorine Gas Release Scenario – A Case Study for Incident Modeling with ALOHA Software Karunakaran Akhil Dev Diptendu Das, K. Ramprasad and Ramdas Bhattacharya
9.40-9.50	L 79	An Appraisal of Community Based Coastal Hazard Management Smijimol P.P and Thomas, K.V.
9.50-10.00	L 80	Identification of Accident-Prone Areas Through Sinuosity Index for the Management of Road Disasters – A Study of the Major Roads to the Sabarimala Pilgrim Destination, Kerala, India. Saran K S, Joice K Joseph Faisal T Illiyas and A P Pradeepkumar
10.00-10.10	L 81	Soil Piping in Idukki District: Chemical or Physical? Bhagyalekshmi S., Sreedharan K., Ajayakumar B., Mahesh Mohan
10.10-10.20	L 82	Impact of Wetland Reclamation on Local Groundwater Levels in and around Kottayam, Kerala State, India K.N.Krishnakumar, A.P.Pradeepkumar
10.20-10.30	L 83	An Assessment on Intrinsic Vulnerability to Flood Hazard of River Killiar in Thiruvananthapuram District Anitha.K, Amalraj.M , Keshav Mohan, Shibu K Mani, Faisel T I, Shibu K. Mani
10.30-10.40	L 84	Multipronged Community Risk and Disaster Management: A Study on Public Safety, Governance and Corporate Social Risk Reduction Initiatives in the Vypin Island, Kerala, India. K.L.Amalkrishna and P. Surya

10.45-11.00 AM : Tea

Hall – I : Main Seminar Hall, SES (Parallel session)

11.00 -12.50 PM : Technical Session XIII Pollution -II

Chair: Dr. V.R. Prakasham

Professor & Former Head, Dept. of Environmental Sciences, University of Kerala

11.00-11.30 AM : Invited Lecture XII: Dr. P.S. Harikumar

Scientist, CWRDM, Calicut

Sustainable Water Quality Management for Wetlands with Reference to Kerala

	L 85	Soil Heavy Metal Human Exposure Risk- A Case Study from Coal Mining
11.30-11.40		Area
		Joshy George, Masto R. E., Ram L. C., Rout T.K. Unni. K.S.
11.40-11.50	L 86	Rapid Assessment of Persistent Organic Pollutant, Sulfamethoxazole In
		Aquatic Ecosystems, Using Surface Plasmon Resonance Based Biosensors
		B. Siva Prasad, Mathews M. John , M. Atul Govardhan, Kannan Ramaswamy,
		P. Sankar Ganesh
11.50-12.00	L 87	Lake Water Quality and its Interaction With Aquifers in Warangal City
		C.K.Anoop, E.V.Rathnam, T.Shashidhar A. Shahul Hameed and
		K.V.Jayakumar
12.00-12.10	L 88	Agrochemicals and their Impacts on the Environmental Health Status
		Sreedharan K., Thomas A.P.
12.10-12.20	L 89	Impact of Hydroelectric Dams on Fisheries in the Sharavathi Estuary of

2.10-12.20 L 89 Impact of Hydroelectric Dams on Fisheries in the Sharavathi Estuary of Uttara Kannada District, South-West India

Mahima Bhat, V.N.Nayak, M.D.Subash Chandran and T. V. Ramachandra
 L 90 A Statistical Modelling Approach for Forecasting of Tourism Developments and its Impacts on Biodiversity on the Largest Wetland

Ecosystem in South India Brilliant Rajan, Vincy Mary Varghese and Pradeepkumar, A. P.

12.30-12.40 L 91 Conservation and Management of Akkulam – Veli Lake for Inland Navigation and Tourism

Sabitha N M, Sanjay Kumar V.S.

12.20-12.30

12.40-12.50 L 92 Environmental Issues in an Around Loktak Lake for Sustainable Environmental Management

Rajiv Das Kangabam, P. Kumar, M. Govindaraju

12.50- 1.45 PM : Lunch

Hall – II : Mini Seminar Hall, SES (Parallel session)

11.00-12-50 PM : Technical Session XIV : Environmental Education, Sustainable

Agriculture, Sustainable Consumption and Livelihood

Chair: Dr. Muraleevallabhan

Associate Professor, NSS College, Vazhoor, Kottayam

11.00-11.30 PM : Invited lecture XIII : Dr. P.C. Abhilash

Institute of Environment & Sustainable Development, Banaras Hindu University

The use of microbial resources for enhancing agricultural production and reducing trace gases emission from agro ecosystems

11.30-11.40	L 93	An Economic Analysis of Food Consumption Pattern in India and Kerala P. Padma , E.V Ramasamy Muralivallabhan T. V and A.P Thomas
11.40-11.50	L 94	Household Consumption of Water in Three Districts of Kerala- A Comparative Analysis
		Sruthy.S, Thafna.K.K, Pravya Jayaraj C.V P.Padma E.V.Ramasamy, Muralivallabhan, A.P.Thomas
11.50-12.00	L 95	Disrtibution of Nutrients in the Soils of Kuttanad Wetland Agroecosystem, Kerala
		Thafna K.K., Navya Cherian, Binish M.B., Mahesh Mohan
12.00-12.10	L 96	Temporal Variation of Fish Fauna in Veli Lake, Kerala: A Historical
		Perspective
		Regi S. R. and A. Biju Kumar
12.10-12.20	L 97	Livelihood In The Wetland of Pulicat Lake, Spsr Nellore District, Andhra Pradesh
		E.Rajya Laksmi, and S.K.M.Basha
12.20-12.30	L 98	Reclaiming Paddy Cultivation and Reviving Natural Capital: The Cultural
		Logic and Social Process in a Kerala Village
		Bijulal M.V.
12.30-12.40	L 99	Ecosystem Goods and Services in Uttara Kannada
		Ashwath D N , Subash Chandran M D and Ramachandra T V
12.40-12.50	L 100	Scope for Solar Energy in Kerala and Karnataka Ganesh Hegde and Ramachandra T V

12.50- 1.45 PM : Lunch

Hall – I : Main Seminar Hall, SES

1.45 – 4.00 PM : Technical session XIV: My Village Biodiversity

Chair: Dr. A. Bijukumar

Associate Professor & Head, Dept. of Aquatic Biology and Fisheries,

University of Kerala

1.45 – 2.15 : Invited Talk XIV: Dr. Subhash Chandran

Centre for Ecological Sciences, IISc., Bangalore

'My Village Biodiversity': Students' Involvement in Biodiversity

Documentation in Uttara Kannada District, South India

2.15 -3.00 PM : Presentation of Students from Bangalore

3.00 -4.00 PM : Presentation of Students from Kerala

4.00 -4.15 PM : Tea

4.15 - 5.00 PM : Valedictory