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 Eyeyeview

12.15-12.45  Invited Talk III : Dr. S. Naren Prasad  
*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 PM  :  Invited lecture IV : Dr. Mohandas,  
*WWF, Coimbatore, India*

2.15-2.25 L 01  Forest Endemism in Relation to Hydrology of Western Ghats  
Subash Chandran M.D., Rao G.R, Rajasri Ray and Ramachandra T.V.

2.25-2.35 L 02  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 Clidemia hirta (L.) D. Don in the Ponthenpuzha Reserve Forest of Kottayam District, Kerala  
Deepamol P.K., Ramesan M., Jayasasoryan K.K., Joby Paul, John C.M and V.P. Sylas

3.05-3.15 L 06  Association of a Mangrove Dwelling Euptyteime Oribatid Mite, Rhysotritia ardua (C.L. Koch, 1841) (Acari :Oribatei) with the Epiphytic Alga, Microspora Sp.  
P.K Syamjith* and N. Ramani

3.15-3.25 L 07  Edible Biodiversity of Kurumba Tribes in the Buffer Zone of Silent Valley National Park, Kerala  
Anhjali, S. N, Sankar, S and Veena George, M

3.25-3.35 L 08  Habitat Preference of Asian Elephant, Elephas maximus outside the Protected Areas in the Fragmented Landscape of Munnar, Southern Western Ghats - A Geospatial Approach  
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

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

**1.45 – 3.45 PM** : Technical Session III : Aquatic Biodiversity

**Chair** : Dr. Sankaran Unni

*Former Professor & Head, Dept. of Botany, Govt. College, Chindwada, MP*

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<tr>
<th>Time</th>
<th>Session</th>
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| 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 Ghats  
*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 Malappurum 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* |
| 2.35-2.45 | L 15  | Floristic Diversity in Wetland Rice Ecosystem of Thiruvananthapuram District  
*Sajith Babu, D., Sansamma George and Nishan, M.A.* |
*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* |
| 3.05-3.15 | L 18  | Phytoplankton Diversity for Monitoring Freshwater Reservoir of Belgaum District, Karnataka State  
*B.S. Giriyappanavar and R.R.Patil* |
*B.S.Giriyappanavar and P.B.Shivalli* |
| 3.25-3.35 | L 20  | Aquatic Plant Diversity of Ponds in Palakkad District; Kerala  
*Bhagyaleena. P and R. Gopalan* |
| 3.35-3.45 | L 21  | Abundance Patterns and Distribution of Annelids In Kundalika Estuary Along the 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* |
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 *Lantana camara* on Seed Germination and Seedling Growth

*Naseer Hussain, M. Karthikeyan, S. Gajalakashmi and S.A. Abbasi*

4.10-4.20  L 27  Environmental Implications of Mismanagement of Municipal Solid Waste

*Shwetmala, H N Chanaky, T V Ramachandra*

4.20-4.30  L 28  Feasibility Studies of Selected Plants in the Treatment of Water Contaminants

*Suggestions, A. C. Ali, Harilal, C.C. and Pradeep Kumar, G.*

4.30-4.40  L 29  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 *Eudrilus eugeniae* 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

*Durga Madhab Mahapatra, Chankaya H N and Ramachandra T V*

5.10-5.20  L 33  Phytoremediation of Leachate from Municipal Dump Yard in a Constructed Wetland Planted with *Colocasia esculenta*

*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  :  Technical Session III continues... Aquatic Biodiversity

4.00-4.10  L 23  Diversity of Monocotyledonous Plants of the Water Bodies of Bangalore and Adjacent Areas

   Ravi, G., Haridasan, V.K.

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

   Vidyā. 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 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

    Chandrakasan Sivaperuman, and EA Jayson

5.10-5.20  L 35  Avifauna Across a Dying Water Body: From the Perspective of Birds Diversity to Assess the Habitat of the Haihole Tank in Shettihalli Wildlife Sanctuary

    Shrinivas Kadabagere and Vijaya Kumara

5.20-5.30  L 36  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, Muralivallabhan T. 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 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

P 08 Toxicity Study due to Accumulation of Heavy Metals in Sediment Ecosystem of 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)

<table>
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<th>Time</th>
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| 9.00-10.40 AM | Technical Session VI: Pollution – I  
Chair: Dr. Kamalakshan Kokkal  
*Joint Director, KSCSTE, Thiruvananthapuram* |
| 9.00-9.30 AM  | 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.Kalaiarasan 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*

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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 -12.15PM : Technical Session IX  Limnology

Chair : Dr. V Sivanandan Achari
School of Environmental Studies, CUSAT

10.45-11.15PM : 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
Ramamoorthy D

1145-11.55 L 58 A Threat of Sedimentation and Aquatic Weed Growth for Sustainance of Some Lakes and Reservoirs in Maharashtra
M I Shaikh, M B Nakil, S K Kalvit

11.55-12.05 L 59 Sediment resuspension driven internal phosphorous loading in a shallow
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
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

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 (Ipomoea Carnea)
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

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

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**

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**5.30PM** : Reaching Kottayam Club, Kumarakom

**6.00- 7.00 PM** : Cultural Programme

**7.00-8.00 PM** : Lake Side Dinner at Kottayam Club

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**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 AM : 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

P.Rajesh Prasanna, 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
Uttam Kumar, Anindita Dasgupta, Chiranjit Mukhopadhyay N. V. Joshi and T. V. Ramachandra

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

**Karunakaran Akhil Dev Diptendu Das, K. Ramprasad and Ramdas Bhattacharya**

9.40-9.50 L 79 An Appraisal of Community Based Coastal Hazard Management  
**Srijimol 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  

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

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**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

11.30-11.40 L 85 Soil Heavy Metal Human Exposure Risk- A Case Study from Coal Mining 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 Uttara Kannada District, South-West India

Mahima Bhat, V.N. Nayak, M.D. Subash Chandran and T. V. Ramachandra

12.20-12.30 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.

12.40-12.50 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


11.50-12.00 L 95 Distribution 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
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<tr>
<td>1.45 – 4.00 PM</td>
<td>Technical session XIV: My Village Biodiversity</td>
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<td>Chair: Dr. A. Bijukumar</td>
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<td></td>
<td>Associate Professor &amp; Head, Dept. of Aquatic Biology and Fisheries,</td>
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<td>University of Kerala</td>
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<td>1.45 – 2.15</td>
<td>Invited Talk XIV: Dr. Subhash Chandran</td>
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<td>‘My Village Biodiversity’: Students’ Involvement in Biodiversity</td>
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<td>Documentation in Uttara Kannada District, South India</td>
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<td>2.15 -3.00 PM</td>
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<td>3.00 -4.00 PM</td>
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<td>4.15 -5.00 PM</td>
<td>Valedictory</td>
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