

**REPORT ON NATIONAL CONFERENCE ON NATURE,
SOCIETY AND SUSTAINABILITY: CHANGING CONTOURS
ON 19th– 20th MARCH 2019 AT MES ASMABI COLLEGE,
KODUNGALLUR.**

A two day National conference was organized by MES Asmabi College, Kodungallur behalf of Golden Jubilee celebration supported by Kerala State Biodiversity Board and Kerala State Higher Education Council. The conference was conducted as the part of UNANP and became the last programme of academic year 2018-2019. The programme was started at 10.15 AM with official session compared by Dr. T .M Sheheeda , followed by prayer. Dr. E V Ansar, convener of National Conference welcomed the dignitaries and students. The programme was chaired by Dr. Ajims P Muhammed, Principal, MES Asmabi College. He wishes all the success to the co ordinates and participants.



The conference officially inaugurated by Dr. S. Faizi is a renowned Indian ecologist specializing in Biodiversity Management and International Environmental Policy. He started career as Field Biologist. Headed an international environmental NGO, has been UNESCO Fellow, Consultant Ecologist to IUCN and also a Biodiversity Expert. Dr. S. Faizi has made remarkable contributions in biodiversity conservation at various levels. He has won many recognitions that include the Lifetime Achievements Award of the III World Biodiversity Congress/Govt. of Serbia (2015), Environmental Leadership Award 2003 and also the UNEP Global 500 Honour in 1988 which was given to the organization he was then heading. Helped create India's first environmental compensation legislation as an expert member of Kerala Govt's Plachimada High Power Committee. The Plachimada High Power Committee report in which he had the key role led to the creation of the first law in the country dedicated to environmental compensation.

First he appreciated the multidisciplinary topic chosen in the National conference. The history of kodungallur is quite interesting by the abundance of biodiversity, spice richness of the land and also the popular dowry systems of the area. The valuable spice resources of the kodungallur attracted by many foreign explorers and invaders. The human civilization emerged before 10000 years ago made harmful impacts on 40 billion years old earth. Civilization has create threat to ecosystems and cause the disappearance of many species from biosphere.

Ecological imbalance and pollution of natural resource such as water, air, soil etc. has leads to drastic climatic changes and its consequences.

He also pointed out to Quoto Protocol for the reduction of CO2 emission. He recorded his disagreement that “Man Creates Climate Change”. These serious issues are created by the Corporate world instead to using the word Man. The best corporate exploitation is Plachimada. He concluded the inaugural speech with sustainability of natural recourses and the consideration on future generation.



The inauguration section is followed by a plenary talk by Dr. A Ramakrishna. He is a Zoologist and also specialized in Taxonomy and Environmental conservation. He has 36 years of Research Experience. He won Janaki Ammal National Award for Taxonomic research from Government of India. He was the Director of Zoological Survey of India

He started the plenary talk with various definitions of sustainable development and he introduced three major parameters of sustainability and also its major components. The inter relations between environment, economy and society with its major components also said. He put forward the typical model of community to the talk with ecology and various ecosystems. He mainly pointed about the sustainable society and social progress index of many countries. “Science, Society and Policy are most important for a peaceful planet” he said.

He added that the population growth is not a negative factor, it is a positive asset. The Indian forest types, consequences of deforestations, habitat lose and also the fragmentations were included in his talk. He gave a detailed account on climatic changes like extreme draught and flood, unstable environment and natural hazards. “We the Indians are rich in biodiversity than other countries, 90% of medicines are prepared from Indian plants. The valuable Neem and Turmeric are in Indian origin which have non replaceable medicinal values” he said.

The concentration of Co₂ level in atmosphere, temperature variations and green house effect were discussed. Anthropogenic activities on nature cause severe mass extinction, draught, flood, forest fire, landslides etc. He concluded the talk with “We should be a part of sustainable consumption on natural resource”.



Dr. Sulthan Ahmed Ismail is an Indian soil biologist and ecologist. His work has centered on techniques for recycling biodegradable waste into fertilizer using local varieties of earthworms and on soil bioremediation, who coined the term Vermitech in 1992. He is also the Managing Director of the Ecoscience Research Foundation.

He started the talk with a quote “Nature restores itself , but man can not” the talk was very interesting. Each and every point made much aware on nature which are forced us to think and rethink. He said that soil is a living organism having digestive system, respiratory system, circulatory system, reproductive system and also have the brain. Significance of earth worms and the construction of vermi composting were the interesting topics of him. The important point by him was the food habits of modern man .He gave a typical healthy diet to the audience. He beautifully wind up the talk with a good wish and all the best to students for becoming a good human being a nature lover.



Followed that felicitation of the guests by Dr. Sumedhan, Director of Self finance Department. He appreciated the seminar theme. Guest of Honor by Jb. Abdul Salam ,Secretary and correspondent of MES Asmabi college to the guest.

The inaugural programme ended with vote of thanks by Dr. K H Amitha Bachan, coordinator, Research promotion Council, Assi. Prof. & Research Guide, Research Dept. of Botany MES Asmabi College, Kodungallur, Founder, Western Ghats Hornbill Foundation, Kerala and Member IUCN SSG for Hornbills, who is sleepless for the betterment of the programme. The first session of the first day ended at 1.30 pm



In the post lunch session's participants presented their paper in two parallel sessions. In parallel session one chaired by Dr C N Sunil, retired SNM College maliyankara and co chaired by Dr. Abil. The presenters are presented their topics. The first presentation was done Then by Sreehari S Nair, a research student on the topic "Diversity of *syconium* in ficus , moraceae, in Kerala as a taxonomic character for identification" then by Akshath Shenoy, research student on impact of flood on riparian vegetation in the selected areas of periyar river. Then by Krishnaraj T.R , PG student on the topic "Impact of flood 2018 on Hornbill habitat and nesting trees a case study in the Vazhachal forest". Then the paper was presented by Hiba mol P.K, PG student on the topic "Impact of flood 2018 on threatened and endemic trees in the Vazhachal forest". Then by Rahila R.A , PG student on the topic "Impact of flood on Riparian forest of Bhavani river, Attapaadi, Kerala, Western Ghat". The last presentation done by Aliya and Muhammed safwan , UG student on the topic "Morphology, taxonomy, ecology and role of avians in seed dispersal of *Actinodaphne malabarica*". These presentation were followed by questions discussions and view points of the participants and speakers



The second parallel section held at Botany Lab at 2:30 PM. Section started with a welcome speech by Dr. Jisha K.C, Assistant professor Department of Botany, MES Asmabi College. She introduced and heartily invited Dr. Sreejith, Assistant Professor, Research and PG Department of Botany, SNM college, Maliankara and Dr. T.Sabu. 10 minutes took by Dr. Sreejith. And 15minutes talk by Dr. T. Sabu titled as “Mapping and analysis of the impact of August 2018 Flood/Landslide on Riparian Vegetation with special reference to invasive Alien Species in the three major tributaries of Bharathapuzha, Kerala, India”. He introduced about the riparian vegetation of Pamba, Periyar, Chalakkudy, Bharathapuzha, Kalpathipuzha with satellite mapping. And also briefly discussed about the role of riparian forest and ecosystem **serviceses**. Through his talk we could understand that Riparian vegetation plays a key role in providing for a

healthy river system. He concluded with his findings as After August 2018 flood/landslide high spreading of invasive species occurred. There are 38 species in 13 families spread over very large areas.



Then the competition started with Gouthami V, Research student about the topic “Ethnic Terminology For Terrain Features of Kadar community endemic to Anamalai part of western ghats”. She started with indigenous community. Kadar considered as the king of Anamalai, because they lead the rainforest and they have deep knowledge about the forest resources and the ecosystem. Her study area includes Tamilnadu and Kerala. And her topic is the first Ethnoecological study of the Kadar community in India. Her community mapping process done by PRA(Participatory Rural Appraisal)method.And also she explained and listed their colocial terms.

At 3:12 P M, Siktha Mol M.S. presented a paper on “Impact of flood on birds species diversity and abundance in vazhachal forest division, Trissur district, Kerala”. At 3:22 P M, Meera M Panicker, PG student presented a interesting topic named Kaattile Pennoruma(Female togetherness in the Forest): Examining the role of gender in forest conservation and management practices among the Kadar community in Malakkappara.

At 3:44PM Thanzeela Ibrahim, she is a young scientist and assistant professor in Department of commerce MES Asmabi College, talked about the “Socio-economic implications of the Kerala flood-2018-A case study conducted on 12th ward of Neendoor, Chittattukara Gramapanchayath”. Then Muhammad Sherif. K, he is a young scientist, presented on “Odonata diversity and Kerala flood 2018 in the Vazhachal forest, Kerala, Western Ghats”. Then Divya P.V, Research student talked on “Microbial Assemblages along the downstream of Periyar and chalakkudy Rivers: A pre and post flood analysis”. Neethu Paul, a PG student presented about “Diversity of Myxomycetes on Vadayar Vilege in kottayam District, a flood affected area in Kerala”. Pooja Suresh, Research student MES Asmabi College presented on “Impact of landslide and Flood on forest ecosystems with special reference to Riparian forests in the Vazhachal forest Divison, Western Ghats”. Sethulakshmi. C.B, PG student talked on “Mapping of the Riparian Vegetation and impact of flood on species composition of riparian habitat in the

Vazhachal Forests”. Akshay Krishna, UG Student MES Asmabi college presented on “Flood impact on Freshwater riverine fish habitat and fishes in the Chalakkudy river, Western Ghats”. Suhaila V.T, PG student MES Asmabi college presented on “An ethnobotanical survey of medicinal plants used for skin diseases in Agalipanchayath, Attappadi, Palakkad district, Kerala”.

Finally both session section concluded with handover a memento to the chair. They included appreciations and wishes to scholars and students who presented their papers very well.

Second day of the conference started with paper presentation. The first presentation was done by Dr. Dhanya. P. R on the topic “control of biogenic amines in fish”.



then by Hitha P .V on standardization and quality evaluation of chilly fish. Next presentation done by Jyothi V on “Phylogenetic relation between some indigenous and exotic cichlids with special reference to their karyotype analysis”. Then by Mohemmed Areej EM, on topic “Thyroid destructive chemicals”. Next presentation by Dr. Deepa M. R on the topic “An overview of floral diversity of kumaramangalathukavu-A sacredgrove, Thrissur district, Kerala”.Then by Aswani V.J, Research fellow on” Post flood modifications in Olavakkode and Walayar forest ranges in North of Palghat Gap, Southern Western Ghats ,Kerala, India”. Then the paper was presented by Jabeena M. K , research fellow on “Effect of land slides and mudslips in Kollangod and Nelliampathy hill ranges of south of Palghat Gap , Southern western Ghat , Kerala , India”. Followed by research fellow Neena Benny on the topic “Impact on landslide on soil microbial fauna”. Pooja suresh, research fellow presented on the topic “conservation status of endangered *Cryptocarya anamalayana*”.

Shifna and Varsha, PG students presented paper on the topic “Morphological and anatomical analysis of *Myristica fragrance* after flood”. In the same category Renukadevi presented paper on “Taxonomical documentation on pteridophytes of Pananchery panchayath ,Thrissur ,with special reference to stem /stipe anatomy”.

The paper presentation was conducted in the category of UG students first presentation by Anfal P. A , Reshmi K .R, Nourin P. S, Sruthy S Babu, Thasnim M. A on “Easy to eat value added product from crab”. Then by the team of Ummukulusu M. R , Risla Hanana P. J, Swathy, Sreechandh, Althaf on the topic “Quality evaluation of raw fresh and preserved *Sardinella logiceps* by sensory evaluation”. Then Mubeena Thasneem P.J, Rahmath V. H, Aseela K.A, Jerald Dominic, Amith V on” Impact of plastic on beach”. Then on Species composition in ring seine was presented by Shifana A.Y, Arya K. L, Nusreen T. A, Simi vikraman and Sreelakshmi C D. Then Hafseena K.H, Roshanahmed, Akshay Krishna, Arunsurendran, Abdul Basith presented on “Fish fauna diversity in Vazhachal forest division”. The last presentation was done by Shabna N. Y. Shilpa R, Biji Baby, Aswani T.M, Meghna S Aravind on the topic “Value added products from trash fish”.

As in the first day session was concluded with handover a memento to the chair, Dr. E.V Ansar and Robin by Dr. Prasoon.

The lunch break was followed by valedictory function. Certificates were distributed by the guests.



The programme was ended with vote of thanks by Dr. Sanand. The two day National conference was ended successfully and beneficially at 4.30 PM.