



CHAIRMAN'S MESSAGE

Er. N. Rajkumar FIE



Dear Fellow Engineers,

The 701st meeting of Council and Division Board meetings were held on 16th to 18th June 2018 at panoramic Port Blair in Andaman Nicobar Islands. The Andaman and Nicobar State Centre has arranged the meeting in this historic island. The Indian freedom struggle is reminded by to the cellular jail and museum. The election process to the State Committee for the ensuing 2 sessions of 2018-2019 and 2019-2020 has started. I request all members to exercise their voting right for electing the best possible team.

HONORARY SECRETARY'S DESK

Er. K. S. Udaya Kumar MIE



04-07-2018 Talk on 'Failure Analysis and Problem Solving in Construction Field' by Er.P.A.Prabhakaran, Retired Chief Engineer, Department of Space, ISRO.

11-07-2018 Talk on 'Tremendous Opportunities in e-teaching & e-learning-an awareness Campaign' by Mr.Sebastian Panakal, Chairman Social Networking Homes, India.

18-07-2018 will be announced later.

25-07-2018 will be announced later.

World Environment Day Celebration

IEI Kerala State Centre celebrated World Environment Day 2018 on 6th June 2018 at The Institution of Engineers (India), Kerala State Centre, Visvesvaraya Bhavan, Thiruvananthapuram.

Er.Udaya Kumar K.S., Honorary Secretary, IEI Kerala State Centre welcomed the gathering and introduced the speaker Dr. Kamalakshan Kokkal, Chief Scientist & ENVIS Co-Ordinator, Kerala State Council for Science, Technology and Environment, Government of Kerala. The speaker delivered the lecture on the theme 'Beat Plastic Pollution.

After the lecture Er.S.Kumar, Past Honorary Secretary, IEI Kerala State Centre proposed the vote thanks.

The programme concluded with National Anthem



Inauguration of GATE 2019 Guidance Class

Inauguration of GATE 2019 Guidance class was held on 23rd July 2018. Prof.Gisuthan, Former Head of the Department, Department of Mechanical Engineering, College of Engineering, Trivandrum inaugurated the function. The welcome was expressed by Er.Udaya Kumar K.S., Honorary Secretary, IEI Kerala State Centre and the function was presided over by Er.N.Rajkumar, Chairman, IEI Kerala State Centre and delivered the presidential address. Teaching faculty of CERCON addressed the students and parents. Er.S.Radhakrishnan, Honorary Director, CERCON narrated about the classes and proposed the vote of thanks.



NEWS FROM LOCAL CENTRE

Kollam Local Centre

Observance of World Environment Day 2018

Celebrated World Environment Day 2018 at two venues -Sree Buddha College of Engineering, Alleppy & MES College of Engineering, Chathannoor, Kollam.

At MES Institute of Technology & Management, Chathannoor

The Institution of Engineers (India), Kollam Local Centre and MES Institute of Technology & Management, Chathannoor, Kollam jointly organized a technical talk and planting of trees on the occasion of World Environment Day on 5th June 2018, at the MES Institute of Technology & Management campus. The Speaker was Mr. M S Pramod, Agricultural Officer, Chathannoor Krishi Bhavan, who delivered a talk on the theme of the day "Beat Plastic Pollution". Mr. M. S. Pramod started his presentation with the details regarding the problem of pollution and global warming. He said that we have to plant more trees every year for the protection of earth. Mr. K Rajan, Deputy Electrical Engineer (Rtd) Electrical Inspectorate, Committee member, The Institution of Engineers (India), Kollam and Prof. (Dr.) Jayaraju M., FIE, Principal, MES Institute of Technology & Management, Chathannoor, Kollam facilitated the programme. Both of them motivated the students and staff to contribute towards the protection of the environment. The session ended with the message that "It is the moral duty of every resident of Earth to make it clean".



At Sree Buddha College of Engineering, Pattoor, Alleppey.

World Environment Day was celebrated on 5th June 2018 jointly by IEI Kollam Local Centre and the Student Chapter of Department of Biotechnology and Biochemical Engineering of Sree Buddha College of Engineering, Pattoor, Alleppey. The theme of the celebration was 'Beat Plastic Pollution'. Later a seminar was held on the topic "Environmental Challenges-ways to connect with nature".

The function was chaired by Dr.S.Suresh Babu, Principal, SBCE. Dr.Manoj Narayanan (HOD, BT&BCE) welcomed the gathering. He explained the need of a healthy and stable environment for the survival of living organisms in particular and Mother Earth in general. In the presidential address Dr.S.Suresh Babu highlighted the pollution caused by plastics and suggested to reduce use of plastics. He explained the health hazards of plastics in detail.

Prof. Dr. Thankamony (Retd), Department of Environmental Engineering, College of Engineering, Thiruvananthapuram (CET) was the guest of honour and she inaugurated the function. She advised the young generation to cultivate a culture that minimize use of plastics. She advocated the slogan the 3R's (Reduce, Reuse and Recycle) to protect environment.

Er.Sivadasan. K (Honorable Secretary, IEI (KLC)) felicitated the function.

Mr.Madhav K, College coordinator of IEI Student Chapters felicitated the function. He cited the recently reported sad episode of a pilot whale which was struggling for breath and swim in a Thai canal. The whale vomited plastic bags during rescue attempts. It is a clear indication of plastic pollution that threaten life on earth.

Dr.Thanamony enumerated in detail simple ways to protect environment. She called upon students and faculty to take the lead to create awareness among the people on plastic pollution and to put into practice the slogan 'Reduce, Reuse and Recycle.' Ms.Shamnamol G. K. proposed vote of thanks.



Kochi Local Centre

Observance of World Environment Day 2018

Use of plastic materials has become an inevitable activity of human life in modern days. Plastic has replaced almost all other materials from tooth brush at home to spare parts of space crafts. Statistics show 300 million tons of plastic materials were produced in 2010 and it is calculated that this figure will exceed the range of 400 million tons by 2050. 25% of building materials, 8% of electrical appliances, 8% of transportation spare parts, 7% of agricultural implements, 3% of toys and 25 % of mechanical engineering materials make use of plastic materials in one way or the other. Per capita consumption of plastic in India is 2 kg. where as in Europe, it is 60 kg and in USA, it is 80kg. Time to degrade plastic items naturally is estimated to be 400 years.

Is it possible to avoid plastic material completely? IEI India, Kochi Local centre observed World Environment Day by planting trees at the Palleppady Office premises on 5/6/2018. Prof (Dr.) Sunil N Kutty, Dr.Madhu, Er. K.K.Gopalakrishnan Nair, Er. N. Paul George, and Er. T.P. Raveendran had planted trees.

Prof (Dr.) Sunil N Kutty of CUSAT in his presentation, explained that plastic should be used judiciously. It is not possible to avoid plastic completely in modern times because plastic has many applications in Engineering, Medical, Space and



Communication fields.. Some replacements can be done by using paper but usage of paper leads to cutting of trees for pulp causing environmental issues. Around 24 trees are to be cut for 1 ton of paper. Plastic being light in weight is extensively used in transportation field since this can save fuel in the long run. Prof. Sunil emphasized 3 R principle – Reduce, Recycle, Reuse and stated that it is not possible to beat plastic completely. Plastic is to be judiciously.

Earlier Prof. Sunil was welcomed by Er. N. Paul George, FIE, Chairman, IEI, Kochi Local Centre. Er. T.P.Raveendran, FIE, Hon.Secretary, IEI, Kochi Local Centre, proposed the vote of thanks. Prf.(Dr.) Madhu, FIE, Past Chairman, IEI, Kochi Local Centre, presented a memento to Prof Sunil. N Kutty

Kozhikode Local Centre

Institution of Engineers (India), Kozhikode Local Centre observed “World Environment Day-2018 on June 22nd 2018 with several programmes. Jointly organized with SPEK (Society for Protection of Environment Kerala) &Chavara Cultural Centre, Kozhikode , an elocution competition on “Alternative materials for plastics “ and a poster competition on the theme : ‘Beat the Plastic Pollution” were held along with a technical talk on the theme. Saplings were distributed at the end of the meeting.

Dr Sujith A, Associate Professor, NIT Calicut delivered the theme lecture on “Beat Plastic Pollution”. He elaborated on the harmful effects of plastics, especially microplastics.

He described a few research works currently being carried out by him and his colleagues at N.I.T. Calicut on the development of bio-degradable type of plastics in combination with natural fibers.

The function started with a welcome address by Prof K. K.Vijayan, President SPEK. He welcomed the chief guest and audience as well as gave an introduction to the topic. Prof.(Dr)K P Mohandas, FIE, Chairman, presided over the function.

Tree saplings were distributed to all members of the audience by Dr A Achyuthan FIE who is a famous Environmentalist.

The seminar was well attended and an interactive session followed in which many senior and younger members actively participated. The function concluded with a vote of thanks of Er.Jithesh, MIE, Hon.Secretary Kozhikode local centre.



Trissur Local Centre

The Institution of Engineers (India) Trichur Local Centre Celebrated the World Environment day 2018 at 04.30 pm in the Hall of Institution of Engineers (India), Er.V.Damodaran FIE, Chairman presided over the meeting.

Dr.C.P.Sunilkumar, FIE introduced the Chief Guest Er.A.Santhosh, Accredited Energy Auditor, Athul Energy Systems Pvt. Ltd., Thrissur who presented the theme paper “Beat Plastic Pollution” Er.P.Krishnakumar, Er.C.G.Sivadas, Er.V.Narayanan, Dr.C.E.Krishnan, Prof.V.K.Lakshmanan Nair, Er.V.V.Sudhakaran and Er.Unnikrishnan Kizhakkepurakkal also spoke on the occasion Er.Sugathan U.K., Hon. Secretary proposed vote of thanks.



Palghat Local Centre

The Palghat Local Centre of IEI observed the world Environment Day 2018 on 5th June 2018 at Hotel Gazala Palakkad at 6.00 p.m. Dr A V Hema Nalini, Professor, Dept. of Civil Engineering, NSS College of Engineering, Palakkad was the guest speaker who delivered a speech with PPT presentation on the theme “Beat Plastic Pollution” . Er A.Kesavan, Chairman of the Local Centre presided over the function.

In the speech, Dr A V Hema Nalini explained the following.

“Beat Plastic Pollution”, the theme for World Environment 2018, urges governments, industry, communities and individuals to come together and explore sustainable alternatives and urgently reduce the production and excessive use of single-use plastic polluting our oceans, damaging marine life and threatening human health.

Plastic pollution has become an epidemic. Every year, we throw away enough plastic to cover the Earth four times. Much of that waste do not make into a landfill, instead ends up in our oceans, where it’s responsible for killing one million seabirds and 100,000 marine mammals every year.

5 trillion = 5000 billions

Plastic Pollution facts:

- Every year the world uses 5000 billion plastic bags.
- Each year, at least 13 % million tonnes of plastics end up in the oceans, the equivalent of a full garbage truck every minute.
- In the last decade, we produced more plastic than in the whole last century
- 50 per cent of the plastic we use is single-use or disposable



- We buy 1 million plastic bottles every minute
 - Plastic makes up 10% of all of the waste we generate
- It is a health issue for ourselves, because when big plastics degrade into small pieces, it gets dissolved into the ocean. These small plastic particles are eaten by fishes which are consumed by humans. Therefore, plastic pollution is a huge environment and health issue.

Plastic is uniquely problematic because it's nonbiodegradable and therefore sticks around for a lot longer (like up to 1,000 years longer) than other forms of trash. And we're not just talking about people dumping their garbage overboard. Around 80 percent of marine litter actually originates on land - either swept in from the coastline or carried to rivers from the streets during heavy rain via storm drains and sewer overflows.

10 Easy ways to reduce your plastic waste today

- Bring your own shopping bag. ...
- Stop buying bottled water. ...
- Bring your own thermos to the coffee shop. ...
- Choose cardboard over plastic bottles and bags. ...
- Say no to straws. ...
- Get the plastic off your face. ...
- Skip the disposable razor. ...
- Switch from disposable diapers to cloth
- Re-think your food storage
- Shop in bulk

Earlier, Dr A V Hema Nalini was formally introduced by Hon. Jt. Secretary, Er.K.Unnikrishnan He also proposed vote of thanks at the end of the session followed by National Anthem.

Kerala State Centre- WEDNESDAY TALKS - Glimpses

13-06-2018 Talk on 'Potential of Engineering Studies and Its Relevance in Present Day World' by Dr.V.V.Karunakaran, Formerly: Head of Division (APD)/Dy Proj. Director, ISRO (Cryo Upper Stage Project),VSSC.



20-06-2018 Talk on 'Trends in Military Space' by Prof.Abdul Majeed M K, Former Scientist, VSSC, ISRO.



27-06-2018 Talk on 'Bali: a byword of World Natural Conservation' by Dr P M C Nair, RP (Tech), Energy Management Centre - Kerala.



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July 2018

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