



News Magazine of The Institution of Engineers(India), Kerala State Centre Voice of Kerala Engineers

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CHAIRMAN'S MESSAGE

Er. N. Rajkumar FIE



During last month we have met Hon'ble Governor of Kerala, Justice P.Sathasivam and requested the need for having representation of IEI in the Board of Governors of APJ Abdul Kalam Technological University. Hon'ble Governor was very positive on the issues raised by us. We have also met Hon'ble Minister for Education, Government of Kerala, Prof. C. Raveendranath and the representation was handed over to him also. We have also raised the issue of non inclusion of Chartered Engineers in the new Sanketham Software of Local Self Government Department, Government of Kerala, for the online approval of building plans and demanded that the software be modified to include Chartered Engineers also as per the Hon'ble High Court Order. Summer Vacation classes for High School students are to start on April 4th this year.



(Clockwise) Er. K.S. Udaya Kumar, Er. N. Rajkumar, Er. N. Hariharan and Er. S. Radhakrishnan meet Hon'ble Governor, Justice P.Sathasivam

HONORARY SECRETARY'S DESK

Er. K. S. Udaya Kumar MIE

Kerala State Centre - Forthcoming Events

07-03-2018 Talk on 'Modern Biogas and Related Projects' by Mr.Sunil Ahamed, Executive Director, Venadu Resource Management, Kollam.

14-03-2018 Talk on 'Digital Transformation After the Internet' by Er. Lokanath M.P., Manager (Retd), Telecom.

21-03-2018 World Water Day 2018 Celebrations. Dr. Xavier K. Jacob FIE, Professor and Head, Department of Agricultural Engineering, College of Agriculture, Vellayani will deliver lecture on the theme 'Nature for Water'.

28-03-2018 Talk on 'Role of Clinical Engineers in Hospitals' by Er. Koruthu P. Varughese, Bio-Medical Engineer, SCTIMST, Trivandrum.



Voice of Kerala Engineers

The 8th Committee Meeting of The Institution of Engineers (India), Kerala State Centre held on 25-02-2018 decided to continue, publishing the Newsmagazine, 'Voice of Kerala Engineers' in hardcopy, as done previously. Hence all Members can once again receive the Newsmagazine by post March 2018. Also it will be available at www.ietvm.org and WhatsApp of IEI KSC.

National Safety Day

National Safety Day is observed all over India every year on 4th March, being the foundation day of National Safety Council. The Institution of Engineers (India), Kerala State Centre requests all to follow Safety Rules at home, at work, and on the road.

21st Er.C.S.Padmanabha Iyer Memorial Lecture

The Institution of Engineers (India), Kerala State Centre conducted the 21st Er.C.S.Padmanabha Iyer Memorial Lecture on 14-02-2018 at Visvesvaraya Bhavan, Thiruvananthapuram. Er.C.S.Padmanabha Iyer was Chief Engineer, KSEB and Past Chairman, IEI Kerala State Centre.

Er. M. Harikumar, Former Head, IT Systems and Computer Networking, VSSC, ISRO delivered the lecture on the topic 'A Tale of Two Magical Incubators'. Earlier Er.N.Rajkumar, Chairman, IEI Kerala State Centre welcomed the gathering, introduced the speaker and narrated the life sketch of Er.C.S.Padmanabha Iyer. After the lecture Er.Udaya Kumar K.S., Honorary Secretary, IEI Kerala State Centre proposed the vote of thanks.



Er. M. Harikumar speaking

**Two Day All India Seminar
Strategic Innovation & Problem Solving for Engineers & Entrepreneurs**

21st & 22nd April 2018, Thiruvananthapuram

Organised by

**The Institution of Engineers (India)
Kerala State Centre**

under the aegis of Inter Disciplinary Coordination Committee, IEI

Venue:

The Institution of Engineers (India) Hall, Visvesvaraya Bhavan, Opposite Kanakakunnu Palace, Thiruvananthapuram

Contact : Er. Udaya Kumar K.S., MIE, Honorary Secretary (Organising Secretary)

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Theme: Nature for Water

World Water Day (22 March) is a day to raise awareness and inspire action to tackle water and sanitation issues. Every year, UN-Water proposes a theme for World Water Day corresponding to a current or future challenge. The theme sets the focus for the World Water Development Report launched annually on 22 March.

This year's theme – Nature for Water – explores how we can use nature to overcome the water challenges of the 21st century. It will show the potential of nature-based solutions for water and how they can be considered for water management policy and practice.

Environmental damage, together with climate change, is driving the water-related crises we see around the world. Floods, drought and water pollution are all made worse by degraded vegetation, soil, rivers and lakes.

When we neglect our ecosystems, we make it harder to provide everyone with the water we need to survive and thrive.

Nature-based solutions have the potential to solve many of our water challenges. We need to do so much more with 'green' infrastructure and harmonize it with 'grey' infrastructure wherever possible. Planting new forests, reconnecting rivers to floodplains, and restoring wetlands will rebalance the water cycle and improve human health and livelihoods.

NEWS FROM LOCAL CENTRES

Kochi Local Centre

Innovative Engineering Solutions to Urban Trans mobility

The Institution of Engineers (India), Kochi Local Centre (IEI) had joined hands with the Alumni Association of National Institute of Technology, Warangal (NITW) and Mar Basielios Institute of Technology and Science (MBITS), Nellimattom, Kothamangalam for a technical session on January 6, 2018.

The talk on “Innovative Engineering Solutions to Urban Trans mobility” was by Mr.Sreenidhi Anantharaman, CEO & Managing Director, Geodesic Techniques. Practising/retired engineers and Civil Engineering student delegates had attended the programme

In his speech, he said history of occupation by outsiders has left our country over-populated with a spectrum of people ranging from illiterate tribal at one end to intellectual high society at the other. All these people are living or migrating to cities resulting in the greatest urban explosion faced by mankind anywhere. While their basic needs remain housing, energy, water, food and clothing, their social urges and income generation needs require efficient, high-speed and sustainable transmobility infrastructure. Transmobility is a term coined

to describe the billions of typical individual multi-modal journeys encountered in cities, their interfaces with one another, the impacts they have on the physical infrastructure such as vehicles, roads, terminals and the built environment, and the psychological effect of the environment on them. The speaker, with the help of Power Point Presentation, made an overview of traditional solutions, contemporary approaches and futuristic innovations to facilitate trans mobility.

Earlier, Dr.P. Sojan Lal, FIE, Principal, MBITS, Kothamangalam, made the welcome speech. Mr.N.Paul George, FIE, Chairman of IEI Kochi Local Centre, delivered the presidential address. Felicitations were given by Mr.Sreenidhi Anantharaman and Mr. Alex V.Koshy, President, NITWAA, Kerala Chapter. Mementoes were presented to the speakers by Sri N. Paul George and Mr. Alex V. Koshy. Certificates of Participation were given to the students who attended the session. Mr. T.P. Raveendran, FIE, Hon. Secretary, IEI Kochi Local Centre, proposed the vote of thanks.

Palghat Local Centre

‘Nothing is waste, everything is useful’

A Technical Session on ‘Nothing is waste, everything is useful’ was organized by Palghat Local Centre on 11-11-2017. Prof. G.Natarajan, former Scientist, Council of Scientific and Industrial Research (CSIR) was the guest speaker who spoke on the above topic.

Er A.Kesavan, Chairman of the Local Centre presided over the function. In his speech Prof. Natarajan pointed out that technology development and transfer plays an important role in sustainable development. Sustainable technology should not only be technically feasible, but also be economically viable.

Three R concept- Reduce, Reuse and Recycle of waste material can be realised only through development of suitable technology. What is waste in one sector happens to be a useful material for the other sector. The presentation projected development of sustainable technologies for three types of solid waste materials as carried out by Er Natarajan during his education and professional career, which are

1. Coal dust from mining industry.
2. Coir pith from coir industry
3. Tender coconut husk from coconut industry.

Coal dust from mining industry

Coal dust which is a waste material and causing problems of solid waste management in the coal field areas has been found as a useful fuel in the tile industry replacing the conventional source –firewood.

Coir pith from coir industry

Coir pith is a waste material causing problems of disposal in the environment. This property has been taken into account for using as a water retention horticultural material.

Tender coconut husk from coconut industry

Presently, tender coconut husk is a waste material causing problems of disposal. However tender coconut husk is an industrial raw material for paper industry.

Hon. Secretary Dr E.K.K.Nambiar proposed vote of thanks.

IEI Kerala State Centre



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The Institution of Engineers (India)

Kerala State Centre

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The Honorary Secretary
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Kerala State Centre- WEDNESDAY TALKS - Glimpses

07-02-2018 Technical talk on 'Scandinavian Model and the Danish Culture' by Mr. Jinu Jayapalan, Freelance Cross Cultural Consultant, India/Europe, Integrate APS Copenhagen.



21-02-2018 Talk on 'Managing Innovation in the 4th Industrial Revolution' by Dr. Arun Surendran, Strategic Director & Principal, Trinity College of Engineering, Thiruvananthapuram



28-02-2018 Technical talk on 'Sustainable Energy - Efficient Design' Er.Sankar N Menon, Director, SEED Engineering Consultants & Academy.



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