

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

# Voice of Kerala Engineers

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## Happy New Year

### CHAIRMAN SPEAKS

Er. P. Balakrishnan Nair, FIE.



We are now onto a new year. I sincerely wish every member and their families a very happy, prosperous, fruitful, joyful and a safe year ahead.

As we slowly trek into the new year, we all should be proud of the achievements that we could accomplish during the past year. A very successful Indian Engineering Congress has just concluded in Jabalpur during 27-29 December 2023. The congress saw the new President Dr.G. Ranganath, FIE assuming the mantle for the next one year.

The deliberations of the visionary talks and the 72 presentations in the various technical sessions were centered on how destructive technology and the advancement poised to happen can get along. The pace at which Artificial Intelligence is storming the world makes one suspicious whether the relationship between human to human is slowly getting replaced with a new dimensional relationship emerging between human and machine. Such relationships can pose a big threat to the very livelihood of common people. Life becomes so mechanical that the value of interpersonal harmony can become a distant memory of the past. It has to be the endeavor of the young engineers to find a balance between the destructive technology and the advancements in technological frontiers to retain the human value at its very ebb. As you all know, the coming year should be the one with bubbling activities on engineering achievements. My earnest appeal to all members, cutting across all engineering disciplines, would be to come forward and group together for organising various successful seminars and conferences.

### HONORARY SECRETARY'S DESK

Er. (Adv.) K. R. Suresh Kumar, MIE

#### Upcoming Events

**10-01-2024:** Talk on 'Secret of Happy, Healthy&Long Life: Role of Breathing, Yoga, Mudras & Food for the same' by Prof. Dr. V. Rajendra Babu, Former Professor & Head (Civil), Dean (PG Studies), College of Engineering, Thiruvananthapuram.

**17-01-2024:** Talk on 'Making of WESAT-Women Engineered Satellite' by Dr. Lizy Abraham, WESAT Principal Investigator Assistant Professor, LBS Institute of Technology for Women, Thiruvananthapuram

**24-01-2024:** Talk on 'Batteries' by Dr.K.Surendran, Professor (Retd.), Department of Electrical Engineering, College of Engineering, Thiruvananthapuram.

**26-01-2024:** 75th Republic Day Celebrations. Hosting of National Flag at Visvesvaraya Bhavan, IEI Kerala State Centre at 9.00 am.

**31-01-2024:** Talk by Er.Abhilash S S

**07-02-2024:** Er. CS Padmanabha Iyer Memorial Lecture by Dr N Ganesan, Professor (HAG) & Dean (Rtd) NIT, Calicut



### ENERGY CONSERVATION DAY

IEI Kerala State Centre celebrated Energy Conservation Day on 14 December 2023. Er.P.Balakrishnan Nair, FIE, Chairman, IEI Kerala State Centre welcomed the gathering. He introduced the speaker and narrated about the importance of the observation of Energy Conservation Day. Dr.P.S.Chandramohanam, Former Principal, Govt. Engineering College & Former Director, ANERT has delivered a fruitful and thought-provoking Talk on "Energy & Environment".

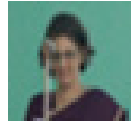


*A Century of Service to be Nation*

## Kollam Local Centre

### 1. Awareness Programmes about IEI

Awareness programmes about The Institution of Engineers (India) conducted for the students of Colleges of Engineering, Pathanapuram and Perumon on 07 Dec 2023 & 15 Dec 2023 respectively.



Programme at College of Engineering Pathanapuram

At College of Engineering Pathanapuram, Dr. Madhusoodanan Pillai K. (Chairman, IEI Kollam Local Centre) inaugurated both the functions and Dr. Sudhi Mary Kurian (Honorary Secretary, IEI KLC) gave felicitation speeches on both occasions. Prof. Deepa R., HOD, Civil Department welcomed the gathering and Dr. Biju Kumar, Principal delivered the presidential address.

At College of Engineering Perumon, welcome address was given by student representative and presidential address by Dr. Bindu S.J., Principal.

### 2. Energy Conservation Day Celebration

Energy Conservation Day was observed at MES Institute of Technology & Management, Kollam on 7 December 2023. The function was organized with the association of the Students' Chapter of IEI.



Mrs. Taniya Mary Francis talks on Energy Saving Tips

The inauguration was done by Dr. K. Madhusoodanan Pillai K. (Chairman, IEI Kollam Local Centre). Dr. Sudhi Mary Kurian (Honorary Secretary, IEI Kollam Local Centre) delivered the presidential address. Prof. Anees Beegom H., Staff coordinator of Students' Chapter welcomed the gathering. Mrs. Taniya Mary Francis, Assistant Engineer, KSEB conveyed some tips for energy saving in our home during felicitation speech. Mr. Dinesh Kumar, Joint Director, Energy Management Centre, Kerala delivered an informative technical talk on the Role of Civil Engineers in the conservation of energy. Cash prizes were awarded to the winners of paper presentation contest.

### 3. Webinar

A Webinar was conducted on "Scientific Water Management Through Precision Farming" on 15 December 2023. Dr. Abdul Hakkim V.M. (Professor (SWCE), Department of Soil and Water Conservation Engineering, Kerala Agricultural University) was the keynote speaker. Dr. K. Madhusoodanan Pillai (Chairman, IEI Kollam LC) delivered inaugural address and welcomed the guest speaker and the gathering. Dr. Sudhi Mary Kurian (Honorary Secretary, IEI KLC) introduced the speaker. The session covered the information regarding rivers in Kerala, ground water resources, physiography, precision farming etc. The speaker emphasised on the technological development in agricultural field, the advantages of precision farming etc.



Dr. Abdul Hakkim V.M. talks in the Webinar

## Kochi Local Centre

The activities of IEI Kochi Local Centre include Technical Presentation, Lecture on contemporary matters and observance of Energy Conservation Day.

### 1. Energy Conservation Day Celebration

Energy Conservation Day was celebrated on 14 December 2023. A lecture on "Energy Conservation and Management: A Transformative Path to a Sustainable Future" was delivered by Dr. Kevin Ark Kumar, Manager, Material Management, HPBP, Bharat Heavy Electrical Ltd., Trichy. He covered



Dr. Kevin Ark Kumar

various aspects, starting with the crucial need for energy management. He shed light on the benefits we can gain from practising energy conservation, emphasizing the positive impact it has on our environment and resources.

### 2. Technical Presentation

Technical Presentation on "Smart Meter: An Overview" was conducted on 28 November 2023. In his presentation, Er. George V. James, Deputy Chief Engineer (Retd.), KSEB provided a comprehensive overview of smart meters. Er. G. Velayudhan Nair, Chairman welcomed the audience. Er. T.C. Prasanth, Hon. Secretary delivered the vote of thanks. George's presentation delved into the operational mechanisms of smart meters, emphasizing their pivotal role in modernizing the energy infrastructure. The audience was enlightened on the manifold advantages of smart meters, with a particular focus on enhancing energy efficiency and billing accuracy.



Er. George V. James talks on Smart Meters



Er. G. Velayudhan Nair delivers welcome speech

### 3. P. M. Chacko Memorial Lecture

P. M. Chacko Memorial Lecture on "National Education Policy 2020 (NEP 2020)" was given by Prof. (Dr.) Sojan Lal P., Principal, MBITS, Kothamangalam on 24 November 2023. Er. G. Velayudhan



(Late) Er. P. M. Chacko



Dr. G. Madhu

Nair, FIE, Chairman, IEI Kochi Local Centre extended a welcome to the gathering. Prof. (Dr.) G. Madhu, FIE, Council Member of IE(I) shared a heartfelt tribute to Er. P. M. Chacko. Prof. Sojan Lal delivered his speech providing insights into vision for the future with respect to NEP. He emphasized, explained and described the transformative impact of the National Education Policy 2020, highlighting its focus on holistic education and skill development, the pivotal role of online and digital education in shaping the educational landscape, underscoring the policy's recognition of technology as a catalyst for accessible and quality learning and the major reforms in education proposed by the policy, outlining the paradigm shifts aimed at fostering innovation, critical thinking and a global perspective among students. The family members of the late Er. P. M. Chacko attended the lecture meeting.

## Trichur Local Centre

### 1. Energy Conservation Day Celebration

IEI Trichur Local Center celebrated Energy Conservation Day on 14 December 2023. Er. Kumar P. R., MIE, Hon. Secretary of IEI TLC, Chartered Engineer & IBC Practitioner presented technical talk on the theme "Environmental, Social and Governance (ESG) Opportunity to Embrace Better Tomorrow". Er. Thomas John V., FIE (Chairman), Prof. Dr. Kurien E.K., FIE (Immediate Past Hon. Secretary), Er. V.V. Sudhakaran, FIE (Past Chairman) and Er. V.Narayanan, MIE (Past Hon. Secretary) were the other panelists in the session



Er. Kumar P. R. talks on the theme

## Palghat Local Centre

### 1. Energy Conservation Day Celebration

IEI Palghat Local Centre celebrated Energy Conservation Day on 14 December 2023. Er. Selvaraj V., Assistant Executive Engineer, Electrical Subdivision, KSEB, Kalpathi, Palakkad was the guest speaker who talked on the theme "Energy Conservation - Methods". The function was presided over by Er. K. Madana Mohan, Chairman (Acting). Er. A. Ramesh, Immediate past Hon. Secretary proposed vote of thanks.



Er. Selvaraj V. talks on the theme

Er. Selvaraj spoke on the necessity of energy conservation, reduction of air pollution and global warming. Importance of energy conservation by reducing the depletion of non-renewable energy sources was highlighted. Tips on energy conservation at home were also given.

## Kozhikode Local Centre

### 1. Seminar

IEI Kozhikode Local Centre organized a Seminar on 25&26 November 2023 on the theme "Temple Traditions and Residential Architecture (Harmya Vidhana)" in association with the 12th National Convention on "Traditional Architecture and Technology". The Seminar was inaugurated by Dr. Prasad Krishna, Director, NIT, Kozhikode. Dr. A. Achyuthan Memorial Oration was done by Dr. Balagopalan T.S. Prabhu. Sri. Kanippayur Krishnan Nambudiripad, Chairman, Vastuvidyapratisthanam talked on the relevance of "Temple Traditions and Residential Architecture (Harmya Vidhana)".



Dr. Prasad Krishna delivers inaugural speech



Dr. Balagopalan T. S. Prabhu gives Memorial Oration

The following technical presentations were made during the two-day Seminar:

- The session on "Temple traditions of India" was chaired by Dr. Ashalatha Thampuran.
- The presentation on "Temple Structures" was done by Er.

K. Raman Bhattathiripad, MIE.

- Dr. P. C. Maduraj, AMIE gave presentation on the theme "Some Thoughts on Renovation of Temples".
- The session on "Residential Architecture" was chaired by Er. K. Raman Bhattathiripad, MIE.
- The session on "Aesthetics –Arts and Crafts" was chaired by Dr. Balagopalan T.S. Prabhu, FIE.
- Dr. P. Gireesan, FIE, Ar. Linas Fathima, Ar. Chitralkha, Er. K. Sivasankara Menon and Ar. Haritha G. presented papers on various topics.

## MEMBERS IN NEWS

Congratulations to Er. K. K. Gopalakrishnan Nair, FIE and Dr. Anil Joseph, FIE

Er. K. K. Gopalakrishnan Nair, FIE was nominated as Chairman, Electrical Engineering Division Board of The Institution of Engineers (India).

Dr. Anil Joseph, FIE was nominated as Chairman, Civil Engineering Division Board of The Institution of Engineers (India).



Er. K. K. Gopalakrishnan Nair, FIE



Dr. Anil Joseph, FIE

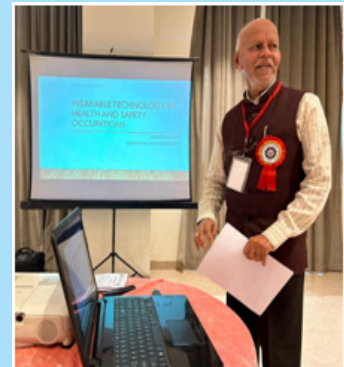
## NOMINATION TO AMC

Er. P. Balakrishnan Nair, FIE, Chairman, IEI Kerala State Centre has been nominated as a Member of Asset Management Committee (AMC) of The Institution of Engineers (India) for the session 2023-24.

Er. P. Balakrishnan Nair, FIE was nominated as Member, Mechanical Engineering Division Board of The Institution of Engineers (India).

## CHAIRMAN, IEI KERALA STATE CENTRE PRESENTS PAPER IN 38th IEC

In the 38th Indian Engineering Congress held at Jabalpur during 27-29 December 2023, Er. P. Balakrishnan Nair, FIE, Chairman, IEI Kerala State Centre presented a technical paper on the topic "Smart Wearables: Advancement in Health and Safety Management System" on 28th December 2023.



## Kerala State Centre- WEDNESDAY TALKS - Glimpses

The regular Wednesday Technical talks were conducted at IEI Kerala State Centre by experts in the relevant field and area of practice.

The following Wednesday Talks were conducted at Kerala State Centre in December 2023.

**20-12-2023:** Talk on "Role of Renewable Energy Microgrids in Clean Energy Transition" by Dr. Ajith Gopi, Additional Chief Technical Manager, ANERT, Department of Power, Government of Kerala.



**27-12-2023:** Talk on "Demystifying Information Security, Cyber Security and Data Privacy: A Standards Approach" by Er. Pradeep Kumar Madhavan, Management Systems & Business Excellence Consultant, Auditor and International Tutor.



These talks were followed by

**03-01-2024:** Talk on "Efficient Engineering: Navigating Resource Savings with Safety at the Helm" by Mr. Manoj M., Junior Consultant, Kerala Infrastructure Investment Fund Board (KIIFB).



## NEW PRESIDENT OF IEI ASSUMES OFFICE



### Dr. G. Ranganath assumes office as President, IEI

Dr. G. Ranganath took over charge as the new President of The Institution of Engineers (India) during 104th AGM held at Jabalpur on 29 December 2023.

## EDITOR'S DESK

**Prof. Dr. C. P. Sunil Kumar, FIE**

Happy New Year.

In this issue, we have presented various Local Centres particularly during December won by the members and other relevant worth mentioning that the office bearers of all the Local Centres have sent reports of activities, enabling the Editorial Board to include them in the Newsletter VoKE December 2023 issue. In future too, we expect the cooperation from them in submitting the reports immediately after the activities are held. Furthermore, IEI Kerala State Centre is committed for the hard work, dedication and brotherhood of its members and especially for its parties. The Newsletter VoKE will find its circulation among all the stake holders in order to honour the efforts taken by the coordinators to keep the Centres vibrant through educational, informative and innovative programmes/activities.



activities of Kerala State Centre and 2023. Also honours/positions highlights are also included. It's



**Dr. Sunil Vasudevan as  
Editor in Charge**

### Editorial Board:

- Er. P. Balakrishnan Nair FIE (Chairman)
- Er. (Adv) K. R. Suresh Kumar MIE (Hon. Secretary)
- Prof. Dr. C. P. Sunil Kumar FIE (Editor)
- Dr. Sunil Vasudevan FIE (Editor-in-Charge)
- Dr. V. Ganesan FIE
- Er. B.Gopakumar, MIE ( CERCON Director)

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Editor: Prof. Dr. C. P. Sunil Kumar, FIE. Mob: 9447391035.

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### The Institution of Engineers (India)

Kerala State Centre, Visvesvaraya Bhavan, Opposite to Kanakakunnu Palace, Thiruvananthapuram- 695 033.

Phone: 0471-2322991, Mob: 8078027563. Email: ieitvm@gmail.com, keralasc@ieindia.org Visit: www. ieitvm.org

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