

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

## Voice of Kerala Engineers

Vol. XV No.3

March 2024

### CHAIRMAN SPEAKS

Er. P. Balakrishnan Nair, FIE.



The name March is dedicated to the Roman God of War, Mars. It is the first month of the earliest Roman calendar and the season on spring. Every year, March and June end on the same day of the week. The first telephone was patented by Alexander Graham Bell on 7 March 1876. March

marks the end of Winter and the start of the Spring season (Vernal Equinox). This is the end of Spring and the start of Winter in the Southern Hemisphere (below the equator). The Vernal Equinox (March Equinox) marks the day when day and night are of equal length.

India's calendar has many important days in March that are celebrated with much fanfare and joy. From religious festivals to national holidays and international commemoration days, the month of March has something for everyone. As we get ready to step into a new month, let's take a look at some of the important days in March that we should be aware of.

In addition to religious festivals, there are other important days in March that are celebrated in India. The "World Engineers Day" is celebrated on 4 March. On 8 March, "International Women's Day" is observed to mark the achievements and progress of women around the world. This day also serves to spread awareness about gender equality and women's rights. The "World Water Day" is observed on the 22 March.

National Safety Day is an annual event observed in India on 4 March to promote safety, health, and environmental awareness in workplaces and communities across the country. The day was first established by the National Safety Council of India in 1972, and each year a new theme is selected to focus attention on a specific aspect of safety and health. This year, the theme for National Safety Day is "Focus on Safety Leadership for ESG Excellence".

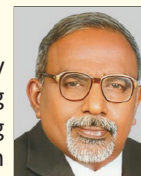
### IE (I) FELLOWSHIP TO ISRO CHAIRMAN

14-02-2024: The Institution of Engineers (India) conferred Honorary Fellowship to Dr. S. Somanath, Chairman, ISRO on 14-02-2024. Dr. G. Ranganath, President, IE (I) felicitated him on the success of Chandrayan-2 mission.

### HONORARY SECRETARY'S DESK

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

#### Upcoming Events



**04-03-2024:** World Engineering Day Celebrations jointly with Marian Engineering College. Lecture on the theme 'Engineering Solutions for a Sustainable World' by Dr. Samson Mathew, Director, National Transportation Planning and Research Centre (NATPAC). Venue: Marian Engineering College, Menamkulam, Kazhakkuttam, Thiruvananthapuram. Time: 10:30 AM.

**06-03-2024:** Talk on 'Carbon Net Zero for Cities: What Can Residents Associations and Professional Societies Do?' by Prof. V. K. Damodaran, Chair, IEEE Life Member AG, Kerala Section.

**13-03-2024:** Talk on "Basics of Road Infrastructure, Vehicular Technology and Safe Way of Interaction" by Er. Subin B., Senior Scientist and in-Charge, Information Liaison and Training Division (ILTD), KSCSTE-NATPAC, Thiruvananthapuram.

**20-03-2024:** Talk on 'Floating Solar System' The Thermal Pillar in Solar Energy Generation by Er.M.R.Narayanan.

**22-03-2024:** World Water Day Celebrations jointly with St. Thomas Institute for Science & Technology. Lecture on the theme 'Water for Peace' by Dr. Shibu Krishnan, Associate Professor, College of Engineering Trivandrum. Venue: St. Thomas Institute for Science & Technology, Kattaikonam, Kazhakkuttam, Thiruvananthapuram. Time: 10:30 AM.

**27-03-2024:** Talk on 'Thermochemical conversion of biomass for a low carbon circular economy' by Er. Rakesh, Freelance Consultant.

**03-04-2024:** Will be announced later.



*A Century of Service to be Nation*

## KERALA STATE CENTRE ACTIVITIES

### 08-02-2024: 26th Er.C.S.Padmanabha Iyar Memorial Lecture

Dr. N. Ganesan, FIE, Professor (HAG) & Dean (Rtd.), Department of Civil Engineering, NIT, Calicut gave 26th Er.C.S. Padmanabha Iyar Memorial Lecture on the topic 'Cementless Concrete for Sustainable Infrastructure'.



Dr. N. Ganesan delivering memorial lecture.

A view of audience

### 08-02-2024: Condolence Meeting

A condolence meeting was conducted in remembrance of Dr. P. Krishna Moothy Iyer, Former Director, CERCON, IEI Kerala State Centre on 08.02.2024 who expired in Singapore on 03.02.2024.



Er. P. Balakrishnan Nair, FIE delivering condolence speech

### 21-02-2024: Regional Languages Promotion Day Celebrations

As part of Regional Languages Promotion Day Celebrations, a Lecture in Malayalam Language on the topic 'പുതിയ സാമൂഹിക ബോധം' was given by Shri. K.Sudarshan, (MA in English, Sociology & Philosophy, MBA-Human Resource Management, Journalism Diploma), Poet, Columnist, Orator, Former Special Secretary, Government of Kerala, Former Additional Chief Electoral Officer & Founder Chairman of Sukumar Azhikode Foundation.



Left: Shri. K. Sudarshan delivering speech.

## INTERACTIVE SESSION AT ESCI, HYDERABAD



Er. K. R. Suresh Kumar and Er. P. Balakrishnan Nair in the Training Session at ESCI, Hyderabad

25-02-2024: Er. P. Balakrishnan Nair, FIE, Chairman and Er. (Adv.) K. R. Suresh Kumar, MIE, FIITArb, Honorary Secretary attended the interactive session for Chairmen and Honorary Secretaries at Engineering Staff College of India, Hyderabad on 25-02-2024.

## Kochi Local Centre

### 12-02-2024: Lecture

A Lecture on "Rights of Consumers" was conducted in physical mode by The Institution of Engineers (India) Kochi Local Centre on 12-02-2024. Shri. Vaikom Ramachandran, Member, Consumer Commission, Ernakulam and Adv. D.B. Binu, President, Consumer Commission, Ernakulam were the distinguished speakers.

Dr. G. Madhu, FIE, National Council Member, IEI commenced the proceedings with a welcoming speech, introducing the speakers.

Adv. Binu spoke on various aspects of consumer rights, emphasizing the significance of consumer protection laws and sharing insightful examples. Following the presentation, an interactive discussion ensued.

### 17-02-2024: Lecture

A Lecture on "Litigation of Properties Alternative - Arbitration/Mediation" was held by The Institution of Engineers (India) Kochi Local Centre, in collaboration with The Institute of Valuers (IOV), Kochi Chapter on



Shri. Vaikom Ramachandran receives memento from Er. V. Vijayachandran Nair



Adv. B. G. Harindranath receives memento from Er. G. Velayudhan Nair

17-02-2024. Adv. B.G. Harindranath, former Professor, National Judicial Academy, Bhopal and former Law Secretary, Government of Kerala brought a wealth of experience to the discussion. Adv. Harindranath explored various facets of property litigation, shedding light on the complexities and nuances of arbitration and mediation as alternative dispute resolution mechanisms.

Er. G. Velayudhan Nair, FIE, Chairman delivered welcome speech. Er. P. Ajith, FIV, Secretary, IOV Cochin Chapter introduced the speaker. Er. T. C. Prasanth, AMIE, Honorary Secretary proposed vote of thanks.

### 21-02-2024: National Language Promotion Day

The Institution of Engineers (India) Kochi Local Centre celebrated National Language Promotion Day on 21-02-2024. Er. V. Joseph Mathews, Retired Executive Engineer, Irrigation Department delivered a lecture in Malayalam, on the topic of "Practical Solutions to the Traffic Problems at Vyttila Junction". He spoke about the current traffic reforms at Vyttila Junction and the benefits of its renewal for the public. He requested The Institution of Engineers (India) to intervene in order to implement the proposals with the help of the authorities.



Er. V. Joseph Mathews receives memento from Er. G. Velayudhan Nair

### 26-02-2024: Technical Presentation

A Technical Presentation on "Building Information Modeling (BIM)" was organized by The Institution of Engineers (India), Kochi Local Centre on 26-02-2024. The presentation was done by Sri. Vijai Kumar S. K. and Smt. Gomathi Priya, Technical Specialists, Autodesk AEC, Redington at Autodesk ACC, Redington. Sri. Vijai Kumar S. K. provided an overview of Autodesk AEC software and its significance in the contemporary construction industry. Smt. Gomathi Priya focused on the features and benefits of Autodesk Construction Cloud. The Presentation served as a platform for engineers to learn about the latest advancements in BIM technology and its applications in the construction sector. Er. G. Velayudhan Nair, FIE, Chairman welcomed the audience and Er. Divya S., AMIE, Honorary Joint Secretary proposed vote of thanks.

### Trichur Local Centre

### 21-02-2024: Regional Language Promotion Day

Trichur local Centre of IE (I) held a discussion on "Development of Kerala: Yesterday, Today, Tomorrow" on the occasion of "Mother Tongue Day" celebration in connection with Regional Language Promotion Day on 21-02-2024.

Er.V.V. Sudhakaran, Past Chairman, IE(I) Trichur Local Centre and Retired Superintending Engineer, PWD presented in vernacular (Malayalam) the developments took place in



Er. V. V. Sudhakaran receives memento from Dr. C. E. Krishnan

Kerala in the social, economic and political realms and how Kerala could excel at par with many developed countries. He also narrated the present challenges faced by the state of Kerala and how best these challenges can be converted into opportunities. Prof. Dr. C. E. Krishnan, FIE, Prof. Dr. E.K.Kurien, FIE and Er: Thomas John V., FIE, Chairman were the other panellists. Chairman welcomed the gathering and Er. M. N. Sasidharan Achari, Past Hon. Secretary proposed the vote of thanks.

### Palghat Local Centre

### 10-02-2024: Session on Mnemonics

IE (I) Palghat Local Centre organized a session on the topic "Mnemonics (Memory Techniques)" on 10-02-2024. Er. T.V.Muralidharan, Senior Manager (Retd.), Canara Bank was the guest speaker. In the presentation, Er. T.V.Muralidharan provided some simple techniques to improve memory. It is by encoding information in a specific way in the brain to facilitate its easy recall or retrieval.



Er. T. V. Muralidharan speaks on the theme.

### 18-02-2024: Technical Session

IE (I) Palghat Local Centre organized a technical session on the topic "Challenges and Recent Advances in Grinding" on 18-02-2024. Dr. Dinesh Setti, Asst. Professor, Department of Mechanical Engineering, Indian Institute of Technology, Palakkad was the guest speaker.



Dr. Dinesh Shetty delivers speech

In the presentation, Dr. Dinesh Setti pointed out that grinding is one of the popular manufacturing processes in which dimensional accuracies and close tolerances can be achieved. It holds great importance in manufacturing automotive and industrial components. The presentation also gave an overview of cooling and lubrication strategies in the grinding process and also shown a novel cooling strategy that continuously cools the work surface with the refrigeration system developed at IIT, Palakkad.

## EDUCATION COLUMN

### SUMMER VACATION CLASS FOR HIGH SCHOOL STUDENTS

The Institution of Engineers (India) Kerala State Centre is conducting Summer Vacation Class for High School Students in Science, Engineering and Life Skill. Training classes will commence in April 2024.

Venue: The Institution of Engineers (India) Hall, Visvesvaraya Bhavan, Opposite to Kanakakunnu Palace, Thiruvananthapuram – 695033.

For details on the above courses, please contact: The Institution of Engineers (India) Kerala State Centre, Visvesvaraya Bhavan, Opposite Kanakakunnu Palace, Thiruvananthapuram – 695033.

Tel: 0471-2322991, Mob: 8078027563.

### Kerala State Centre- WEDNESDAY TALKS - Glimpses

**14-02-2024:** Talkon “Challenges in Ranking Survey of Educational Institutions” was given by Dr. Anilkumar S H, Dean (PG studies & Research), Sree Chithira Thirunal College of Engineering, Pappanamcode.



Dr. Anilkumar SH talks on the theme

**28-02-2024:** Talk on ‘High Temperature Tribological Behavior of A356-SiCp Composite in Unidirectional and Reciprocating Contact’ was given by Er. Jibin Bose T. C., Research Scholar & Assistant Professor, Hindustan College of Engineering, Aripa.



Er. Jibin Bose T. C. receives memento from Chairman

### EDITOR'S DESK

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



Now engineers focus on the “Technology Fusion” approach viz. combining existing technologies into hybrid technologies. While conducting technical talks, we should not adhere to themes of repeated nature. Instead, we should deliberately seek the availability of themes that are going to reign the engineering scenario. If resource persons are not available in the vicinity, online mode will help to reduce the expenses either.

While sending matter for Newsletter VoKE, Local Centres should ensure not to send the same news matter repeatedly, which have already been published in the previous Newsletter. In this regard, each Local Centre may keep track of whatever materials have been sent every month to Newsletter and send only the News corresponding to the month. In case the Local Centre conducts the activity at the end of the month and fail to send the matter to Newsletter in time, such News will be included in the next issue of Newsletter. Each Local Centre should be meticulous enough in preparing the content of the matter in concise form. Also they should take care to send clear JPG images of important photographs separately also, along with giving descriptions of the photograph in the matter/report. Let us take earnest effort to disseminate the activities of Local Centres and State Centre through Newsletter without delay.

#### Editorial Board:

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

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