



Merry Christmas & Happy New Year

Chairman Speaks



Greetings from the Chairman of the Institution of Engineers (India), Kerala State Centre. We have reached the final month of the year 2023. This year has been very active and vibrant for the Kerala State Centre of the Institution of Engineers (India).

The Annual General Meeting of the outgoing committee was held on the 31st of October 2023 and the list of newly elected new members was announced by the Board of Scrutineers. The new committee headed by Er Balakrishnan Nair, Chairman and Er K R Suresh Kumar, Hon. Secretary took charge from the past Chairman, Dr (Prof) Jayaraju Madhavan and Er Roy Mathew, Hon Secretary for the new term 2023-2025.

The newly elected committee held its first programme, Shri S K Sundaram Memorial Lecture, which was delivered by Dr Rani, Associate Professor, Marian Engineering College, Thiruvananthapuram, immediately on assuming charge. This talk took place on a Tuesday, but this did not deter the committee to hold the Wednesday talk the next day, the 1st of November 2023. The talk was held in the presence of an august gathering despite the whole state celebrating the Kerala Piravi and also "Keraleeyam". Our institution premise also was let out for this grand event for the next one week.

The committee completed its one-month period on 30th November and during this period **five Wednesday talks** were conducted. These talks revealed an increment in participation and new faces could be seen in the audience. Responses from new organisations were also positive and they are turning out to attend the talk programme. We all should endeavour to tap new institutions and its members to turn out for our upcoming events in large numbers. The new committee has an enormous responsibility to perform that should meet the expectations of the engineering professionals in the state. This is possible only through the concerted cooperation and support of all members of all the committee members, both the current and past members, by identifying various events that can be scheduled during the current term which attract not only the veterans but also the young minds from the educational institutions and industries who have to ultimately shoulder the task of carrying forward this illustrious professional institution forward. That is the greatest challenge for the current committee. It will be a period of ploughing and sowing – not of holiday time!!! Thank you very much for assuring your support for a very smooth operation of the new committee for the coming period.

Thank you, Namaste

Er. Balakrishnan Nair P, FIE
Chairman

Honorary Secretary's Desk



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

Upcoming Events

14.12.2023: Energy Conservation Day Celebrations. Lecture on 'Energy & Environment' by Dr. P. S. Chandramohan, Former Principal, Govt. Engineering College & Former Director, ANERT.

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 Approaches" by Er. Pradeep Kumar Madhavan, Management Systems & Business Excellence Consultant, Auditor & International Tutor.

03.01.2024: Talk on "Fearless and Sensible Engineering" by Er. Manoj M, KIFBI.



Sitting (From L to R): Prof. Dr. C. P. Sunil Kumar FIE, Er. T. Sreepakash FIE, Er. P. Balakrishnan Nair FIE, Er. K. K. Gopalakrishnan Nair FIE, Dr. G. Madhu FIE, Er. (Adv.) K. R. Suresh Kumar MIE
Middle row: Er. M. P. Eldhose MIE, Dr. Koombel Antony Simon FIE, Er. S. K. Jagadeesa Chandra Pisharady FIE, Er. Roy Mathew MIE, Er. K. S. Udaya Kumar FIE, Er. S. Binu MIE, Er. V. Thomas John FIE, Er. K. Srarat Kumar MIE, Er. Raam Krishnan Vinodh Babu Shylaja MIE,
Rear row: Er. S. Kumar FIE, Er. R. Murugesan FIE, Er. S. Venugopal FIE, Er. Shaji Jacob MIE.

76th ANNUAL GENERAL MEETING

76th Annual General Meeting of The Institution of Engineers (India) Kerala State Centre was held at Visvesvaraya Bhavan, Thiruvananthapuram at 11 AM on 31 October 2023. Prof. (Dr.) M. Jayaraju, FIE, Chairman chaired the meeting in which 105 members participated.

Agenda as per the call letter was discussed and approved by the AGM.

Er. R. Purushothaman Nair, FIE, Convenor, BoS announced the Election Result for the sessions 2023-2025. Er. P. Balakrishnan Nair, FIE (F-0170765-MC) and Er. K. R. Suresh

Kumar, MIE (M-1218640-EL) took charge as Chairman and Honorary Secretary respectively of The Institution of Engineers (India) Kerala State Centre for the sessions 2023 - 2025.

Er. P. Balakrishnan Nair, FIE and Er. K. R. Suresh Kumar, MIE addressed the members speaking on the future plan and activities.

Er. Roy Mathew, MIE, Honorary Secretary proposed the vote of thanks.



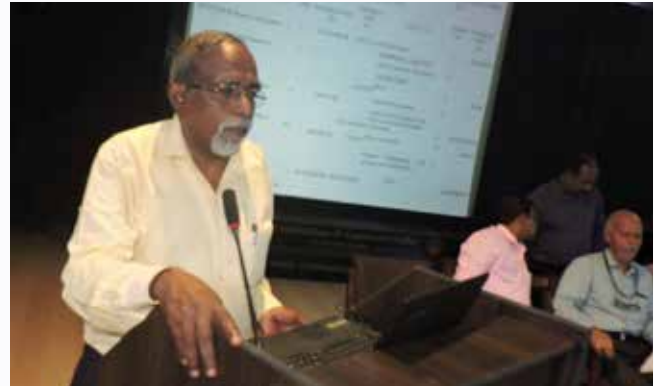
Er. P. Balakrishnan Nair, FIE



Prof. (Dr.) M. Jayaraju, FIE



Er. Roy Mathew, MIE



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



A view of the audience



29th Er. S. K. Sundaram Memorial Lecture in connection with 76th Annual General Meeting was held. Er. P. Balakrishnan Nair, FIE, Chairman, IEI Kerala State Centre delivered the welcome address. Also introduced the speaker Prof. Dr. Rani V., Associate Professor, Department of Civil Engineering, Marian Engineering College, Thiruvananthapuram and narrated brief life sketch of Er. S. K. Sundaram. Prof. (Dr.) Rani V. delivered the Memorial Lecture on the topic 'Pollution Assessment of Field Contaminated Soil'. Er. K. R. Suresh Kumar, MIE, Honorary Secretary, IEI Kerala State Centre proposed the vote of thanks.

TWO-DAY ALL INDIA SEMINAR ON 'PROCESSING AND VALUE ADDITION IN AGRICULTURE FOR INCREASING FARMERS INCOME: AN ENGINEERING PERSPECTIVE'

25 & 26 October 2023

Two-day All India Seminar on the theme 'Processing and Value Addition in Agriculture for Increasing Farmers Income: An Engineering Perspective' was organised by The Institution of Engineers (India) Kerala State Centre under the aegis of Agriculture Engineering Division Board of IEI, jointly organized by Kerala State Council for Science, Technology and Environment (KSCSTE).

Day I: The seminar started with Lead Talks.

Talk on the topic 'Processing and value addition of tuber crops' by Dr. Sajeew M. S., Principal Scientist, ICAR-Central Tuber Crops Research Institute, Sreekaryam, Thiruvananthapuram.

Talk on the topic 'Processing and value addition of plantation crops' by Dr. Manikantan R., Principal Scientist, ICAR-Central Plantation Crops Research Institute, Kasaragod.

Talk on the topic 'Processing and value addition of paddy' by Dr. Sinija V. R., Professor, National Institute of Food Technology, Entrepreneurship and Management, Thanjavur (NIFTEM-T), Tamil Nadu.

The Inaugural Session:

Shri. G. R. Anil, Hon'ble Minister for Food and Civil Supplies, Government of Kerala delivered the inaugural address.

Guest of Honour Prof. K. P. Sudheer, Ex Officio Principal Secretary, S & T Department and Executive Vice President, KSCSTE, Government of Kerala

lighted the lamp and delivered the lecture.

Prof. (Dr.) M. Jayaraju, FIE, Chairman, IEI KSC delivered the Presidential Address.

Dr. G. Byju, Director, ICAR - CTCRI, Thiruvananthapuram delivered the address.

Er. Udaya Kumar K. S., FIE, Member, Agricultural Engineering

Division, IEI KSC delivered Welcome Address and gave Details of the Seminar.

Er. Roy Mathew, MIE, Honorary Secretary, IEI KSC proposed the vote of thanks.

Talk on 'Processing and value addition of fruits and vegetables' by Dr. Rajesh G. K., Asst. Professor, KAU-KCAET, Tavanur, Malappuram.

Afternoon Session:

Talk on 'Green packaging materials' by Dr. Rajesh K. A., Joint Director, CIPET-IPT, Eloor, Udyogamandal, Kochi.

Talk on 'Functional and nutraceutical foods' by Dr. Padmaja G., Head & Principal Scientist (Retd.), ICAR-CTCRI, Sreekaryam, Thiruvananthapuram.

Talk on 'Millets for food and nutritional security' by Dr. Suma Divakar, Professor, Department of Community Science, College of Agriculture, Thiruvananthapuram.

Talk on 'Cassava leaves: Potential for plant Protection and Bio energy' by Dr. Jayaprakas C. A., Principal Scientist (Retd.), ICAR-CTCRI, Sreekaryam, Thiruvananthapuram.

Oral Research Paper Presentation Session:

Paper on 'Electrically Operated Jackfruit Seed Peeler' by V. Haritha, M. Tech Scholar, Department of Processing and Food Engineering, KCAET, Tavanur.

Paper on 'Supply Chain Model for Agriculture and Industrial Productivity with Kerala Context' by Dr. P. K. Suresh.

Paper on 'The Journey of Small Farmers' Agribusiness Consortium (SFAC) Towards Doubling Farmers' Income: A Case Study from Kerala' by Mr. Syam Krishnan R., Research Scholar, School of Management Studies, Gandhigram Rural Institute, Dindigul District, Tamil Nadu.

Paper on 'Effect of different packaging materials on the quality and shelf-life of cassava flour during storage' by Mr. T.

Krishnakumar, Section of Crop Utilization, ICAR-Central Tuber Crops Research Institute (CTCRI).

Day II: Poster Presentation on Research Paper.

Lead Talks on 'Value addition and product diversification' by Shri. Suresh Muthukulam, Additional Director of Agriculture (Retd.)

Talk on 'Prospects and relevance of farmer producer organizations' by Shri. P. J. Sivakumar, Director (Planning & Institutional Development) Rtd., KERALED.

Talk on 'Agribusiness incubation facilities for emerging technologies' by Dr. Binuja Thomas, Principal Scientist, Kerala State Council for Science, Technology and Environment.

Talk on 'Sub-mission on agriculture mechanization' by Er. Shyam Krishnan R., Assistant Engineer, Agriculture Department.

Then a Research Paper Presentation was held at the venue.

Paper on 'Pearl millet Incorporated Sweet Potato Choco-Filled Cookies' by Ms. C. Pradeepika, Section of Crop Utilization, ICAR-Central Tuber Crops Research Institute (CTCRI).

Paper on 'Optimization of process parameters for conching process for chocolate production, Ms. Anjitha Jacob, Department of processing and Food Engineering, KCAET, Tavanur.

Paper on 'Portable Solar Dryer with Controller Unit' by Mr. Sankar M., M. Tech Scholar, Department of Processing and Food Engineering, KCAET, Tavanur.

Paper on 'Development and Quality Evaluation of Cake Fortified with Moringa oleifera Leaf Powder' Ms. Noorbina Razak, M. Tech Scholar, Department of Processing and Food Engineering, KCAET, Tavanur.

Paper on 'Optimization of Process Parameters for Coco Butter Extraction Using Screw Press' Ms. Shamna N. P., M. Tech Student, Dept. of Processing and Food Engineering, KCAET, Tavanur.

Paper on 'Studies on Microwave Steam Distillation Process for Extraction of Tulsi Essential Oil' Ms. Ann Annie Shaju, PhD Scholar, Department of Processing and Food Engineering, KCAET, Tavanur.

Paper on the topic 'Effect of Aqueous Ozone Treatment on Reduction of Pesticide Residue and Microbial Qualities of Cucumber' was jointly presented by Er. Navya K. P., M. Tech Scholar, Department of Processing and Food Engineering, KCAET, Tavanur and Er. Anuj Sonal P., M. Tech Scholar, Department of Processing and Food Engineering, KCAET, Tavanur.

Paper on the topic 'Towards Sustainable Coconut (Cocos Nucifera L) Products: Vacuum Impregnation Optimization & Its Impact' was jointly presented by Er. Anuj Sonal P., M. Tech Scholar, Dept. of Processing and Food Engineering, KCAET, Tavanur and Er. Navya K. P., M. Tech Scholar, Dept. of Processing and Food Engineering, KCAET, Tavanur.

Afternoon session

Talk on 'Agribusiness ventures by SFAC Kerala' by Dr. Jomy Jacob, Project Leader, SFAC.

Officials of Bank of Baroda and State Bank of India presented their services during seminar. And there was a Panel Discussion.

In the Valedictory session, Prof. (Dr.) M. Jayaraju, FIE, Chairman, IEI KSC welcomed the gathering. Summation of the Seminar Proceedings was done by Dr. V. Ganesan, FIE, Director, P CERCON, IEI KSC., Er. P. Balakrishnan Nair, FIE, Member, Mechanical Engineering Division, IEI KSC, Chief Guest Er. Febi Varghese, Director & CEO, Kerala State Nirmithi Kendra, Government of Kerala, Thiruvananthapuram delivered the address.

Guest of Honour Er. Babu V., State Agricultural Engineer, Agriculture Department addressed the audience.

Certificates were distributed to all participants of the seminar.



Sri. G. R. Anil, Hon. Minister of Food & Civil Supplies inaugurates



Sri. K. P. Sudheer lights the lamp



A view of the audience



Dr. Byju



Dr. K. P. Sudheer



Dr. M. Jayaraju



Dr. M. S. Sajeev



Dr. R. Manikantan



Dr. G. K. Rajesh



Dr. K. A. Rajesh



Dr. G. Padmaja



Dr. Suma Divakar



Dr. C. A. Jayaprakas



Sri. Suresh Muthukulam



Sri. P. J. Sivakumar



Dr. Binuja Thomas



Dr. Jomy Jacob



Er. Roy Mathew



Er. K. S. Udayakumar



A view of Exhibition

Er. Roy Mathew, MIE, Honorary Secretary, IEI KSC proposed the vote of thanks

An Exhibition was also arranged at the venue during Seminar. The organizations participated in the Exhibition include Hi-Tech Power Solutions, The Kerala Agro Industries Corporation Limited, Indian Council for Agriculture Research - Central Tuber Crops Research

Institute, Thiruvananthapuram, Andreas Stihl Pvt. Ltd., K M Tractors, Valanchery, State Bank of India, Nanthencode and Bank of Baroda.

A demonstration of Drone was done by Andreas Stihl Pvt. Ltd.

New office bearers for the Session 2023-24 & 2024-25

Kerala State Centre

The 76th Annual General Meeting of The Institution of Engineers (India) Kerala State Centre was held on 31-10-2023 at 11: 00 AM at Thiruvananthapuram and the following members have taken charge as office bearers for the sessions 2023-24 & 2024-25.



Er. Balakrishnan Nair P., FIE
Chairman



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

Kollam Local Centre



Dr. Madhusoodanan Paillai K., FIE
Chairman



Dr. Sudhi Mary Kurian, FIE
Honorary Secretary

Kochi Local Centre



Er. G. Velayudhan Nair, FIE
Chairman



Er. T. C. Prasanth, MIE
Honorary Secretary

Trichur Local Centre



Er. Thomas John V., FIE
Chairman



Er. Kumar P. R., MIE
Honorary Secretary

Palghat Local Centre



Er. A. V. Rajappan, FIE
Chairman



Dr. Rajesh Menon
Honorary Secretary

Kozhikode Local Centre



Er. Gireesan P., FIE
Chairman



Er. M. Pramod Kumar, MIE
Honorary Secretary

REPORTS OF LOCAL CENTRES

KOLLAM LOCAL CENTRE

13-09-2023: EXPERT TALK

An expert talk was organized by IE (I) Kollam Local Centre in association with the Department of Civil Engineering, ASCE Students' Chapter, SBCE, CASTELLOS and IIC in a hybrid mode from 2 pm to 3 pm through Google meet on 13 September 2023. The talk was delivered by Dr. K. S. Anandh, Assistant Professor, Department of Civil Engineering, SRM University on the topic "Elevating Expectations: A Presentation on Construction Safety in India".

14-09-2023: COMPETITION

IE (I) Kollam Local Centre in association with Department of Civil Engineering, ASCE Students' Chapter, SBCE, CASTELLOS and IIC, organized a competition titled "Best Civil Engineer's Contest" on 14 September 2023. Twenty students from five colleges participated in the contest. The winners of the contest were Younus College of Engineering & Technology and Sree Buddha College of Engineering. Certificates and cash prizes of Rs. 5000 were presented to the winners by Dr. V. Syam Prakash, Retd. Joint Director of Technical Education on 21 September 2023.

15-09-2023: ENGINEERS' DAY

The Institution of Engineers (India) Kollam Local Centre observed Engineers Day 2023 at Sreebuddha College of Engineering, Pattor. The programme was jointly organized by IEI Kollam Local Centre, Department of Civil Engineering, ASCE student chapter,



IIC & CASTELLOS. The inauguration was done by Er. Anilkumar R., Retd. Executive Engineer, Public Works Department. Prof. Prasad V., Secretary, Sree Buddha Educational Society presided over the programme. The felicitation was given by Dr. K. Krishnakumar, Principal, SBCE and Er. Sanalkumar K., Executive Committee member, IE(I) Kollam Local Center and Retd. Chief Engineer, KSEBL. Dr. Gouri Antherjanam, HoD, Department of Civil Engineering welcomed the gathering. Vote of thanks was proposed by Ms. Cinaya Tony, Assistant Professor, Dept. of Civil Engineering and Faculty Advisor, IE(I) Student Chapter (Civil), SBCE. After the inaugural session, Er. Anilkumar R. delivered a keynote address on the topic "Engineer's Journey: Experiences and Insights". The programme was attended by nearly 120 students.

18-09-2023: EXPERT TALK

An expert talk was organized by IE (I) Kollam Local Centre in association with the Department of Civil Engineering from 11 am to 12:30 pm on 18 September 2023. The talk was delivered by Er. Subhashkumar C. B., Assistant Executive Engineer, PWD Bridges Sub Division, Pathanamthitta on the topic "Theory Vs Practical in Civil Engineer-



ing". The programme was attended by nearly 100 participants.

19-09-2023: ROYAL CHARTER DAY

The Institution of Engineers (India), Kollam Local Centre observed "Royal Charter Day 2023" at Baselios Mathews II College of Engineering, Sasthamcotta on 19 September 2023. The programme was jointly organized by The Institution of Engineers (India) Kollam Local Centre and Baselios Mathews II College of Engineering, Sasthamcotta.

Er. Rajan K. FIE, Chairman, IEI Kollam Local Centre inaugurated Royal Charter Day celebration. Dr. L. Padma Suresh, Principal presided over the function. Dr. Biju Prasad, Group Head, Scientist/Engineer, VSSC, ISRO delivered keynote address. Fr. Thomas Varghese, the Director of the Institution, Dr. Sheeba R. (Hon. Secretary, IEI Kollam Local Centre) and Dr. Madhusoodanan Pillai K., FIE, Vice Principal delivered felicitation speeches. The Welcome address was done by Prof. Abraham Sam Thomas. Prof. Shehna Salim, APME, Mechanical Department of BMCE proposed vote of thanks. Er. K. Rajan spoke about the Importance of Royal Charter day, Activities of IE (I) KLC and the importance of Students' Chapters.

The second session was the Talk on "Current and Future Indian Space Programmes" by Dr. Biju Prasad. He spoke on the basic concepts of Space Technology and Current and Future Missions of ISRO. Vote of thanks for the Seminar was delivered Sreekumar R. The programme was attended by about 90 students.

18-09-2023 & 19-09-2023: COMPETITIONS

The Institution of Engineers (India), Kollam Local Centre in association with IEI Civil Students' Chapter, Musaliar College of Engineering & Technology, Pathanamthitta observed Engineers Day 2023 on 19th and 20th September 2023, through series of events. On 18 September 2023, 2 events were conducted viz. Poster making competition and Quiz competition.

Poster making competition "POSTEROLIC" topic was "Role of Engineer in Modern World". Ananthraj, S5 CE got first prize and Meenashi Ajith and Muhammed Suhail from S3 CE shared the second prize.

Quiz competition "SMARTICUS" was only for Civil Engineering students. Arya Ajith and Gowri M. from S7 CE secured the first prize. On 20 September 2023, an expert talk was conducted by Er. Riphin K. Jogn, Assistant Engineer, Rebuild Kerala Initiative-PIU-LSGD on the topic "Resilient construction of rural roads in Kerala".

20-09-2023: ORIENTATION PROGRAMME

The Institution of Engineers (India) Kollam Local Centre organised an Orientation Program for 1st year students of Computer Science Division, TKM College of Engineering on 20 September 2023. Dr. Sheeba R. (Hon. Secretary, IEI KLC) inaugurated the event. Chairperson Mr. Sanjay S. J., 4th year CSE delivered welcome



address. Prof. Shyna A., Student Branch Counsellor talked on why students should join IEI, highlighting the opportunities for



academic and personal growth that IEI offers. It was followed by an informative session by Program Head, Mr. Prathyush. Secretary Mr. Sinan listed out the upcoming events planned by IEI CSE TKMCE.

05-10-2023: WORLD HABITAT DAY

The Institution of Engineers (India) Kollam Local Centre observed "World Habitat Day 2023" on 5 October 2023. The programme was jointly organized with IEI Civil Students' Chapter, Musaliar College of Engineering and Technology, Pathanamthitta. Dr. Manoj Kumar Kini, Managing Director, KTIL and Muziris Heritage project under Department of Tourism, Govt. of Kerala was the chief guest of the programme. He delivered a technical talk on the topic "Cities as drivers of economy and growth". The programme was inaugurated by Dr. Sudhi Mary Kurian, Executive Committee Member, IEI Kollam Local Centre. Dr. Bushra I., Professor and Faculty Advisor of IEI Student's Chapter gave felicitation. The Head of the Department delivered welcome speech. A quiz competition was conducted prior to the event (on 4 October 2023) based on World Habitat Day and Mr. Sujith Omanakuttan, S7 CE got the first prize and Shalvin Shaji, S3 CE got the second prize. Prizes were distributed to the winners.

22-11-2023: ORIENTATION PROGRAMME

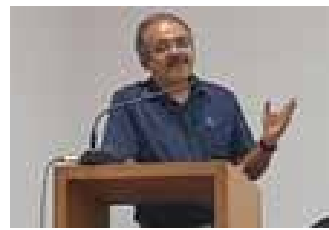
An orientation program of IEI Kollam Local Centre was organized at Bishop Jerome Institute, Kollam on 22 November 2023. Dr. Channulal (HoD, EEE & Committee Member, IEI KLC) delivered



welcome speech, followed by the speech on the importance of IEI membership and its role in advancing the engineering profession by Dr. Madhusoodanan Pillai K. (Chairman, IEI KLC). 100 Students attended the program. Dr. Sudhi Mary Kurian, Hon. Secretary, IEI KLC addressed the gathering. Prof. Beena Varghese M., EEE dept. proposed vote of thanks.

28-11-2023: STUDENTS' DAY

The Institution of Engineers (India) Kollam Local Centre in association with TKM College of Engineering Kollam conducted Students Day 2023 on 28 November 2023. The inauguration was done by Dr. Samson Mathew, Director, NATPAC and Former Professor, NIT Trichy. Dr. Sajeeb R., Vice Principal & HOD (CE)



presided over the ceremony. Dr. Sudhi Mary Kurian, Hon. Secretary, IEI KLC delivered the welcome speech. Dr. Samson Mathew took an enlightening session on "An Integrated Multimodal Approach for Sustainable Transportation". Ms. Shalfa, a student member

of IEI proposed vote of thanks. 150 student members participated in the programme.

KOCHI LOCAL CENTRE

09-09-2023: ROYAL CHARTER DAY



IEI Kochi Local Centre jointly with IEI Palghat Local Centre celebrated Royal Charter Day in Webinar mode. Er. Sachin Solaman, Knowledge Exchange Associate, Energy & Bioproduct Research Institute (EBRI), Aston University, Birmingham, United Kingdom was the guest of honour. Er. P. A. Sala-hudheen, Chairman of IEI Kochi Local Centre delivered welcome speech. Er. Madana Mohan, Chairman, IEI Palghat Local Centre introduced the speaker. Mr. Sachin Solaman approached an issue related to the reorganization of AMIE certification issued by IE (I) which enabled him to get admission in a foreign institute. He threw light on the brief history of the Royal Charter proclamation, AMIE examinations and IEI as a promoter of Engineering and Technology in pre-independent India, including the duty of preview council to obtain Royal Charter status. Hon. Secretary Er. K. S. Babu proposed vote of thanks.

07-10-2023: MATTUPETTY VISIT

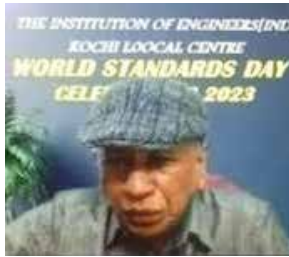
The Members of The Institution of Engineers (India) Kochi Local Centre, accompanied by their families, embarked on a technical visit to Mattupetty Indo-Swiss Farm in Munnar. The journey commenced at 7 am from Kochi Local Centre HQ. The Chairman and Hon. Secretary of the Kerala State Centre have joined the visit. Upon our arrival at the farm, officials from the Kerala Livestock Development Board conducted an informative session, shedding light on the farm's functions.



The visit to the Indo-Swiss Farm offered a unique learning experience, enhancing our understanding of cattle breeding and the farm's overall operations.

The picturesque landscapes and the farm's commitment to excellence made it a memorable and enriching day for all. After departing from the farm, we convened an executive committee meeting in Munnar, furthering our discussions on 38th National Conventions and other important matters.

14-10-2023: WORLD STANDARDS DAY



Kochi LC celebrated World Standards Day in Webinar mode. Er. P. A. Salahudheen, Chairman welcomed all participants and speakers to the webinar with a brief explanation about Standards Day. The current year's theme is "Shared vision for a better world incorporating sustainable development for Good health SDG 3". Vote of thanks was proposed by Er. K. S. Babu, Hon. Secretary.

Er. K. S. Babu, Hon. Secretary.

27-28 OCTOBER 2023: NATIONAL CONVENTION

38th National Convention of Electronics and Telecommunication Engineers with the theme "Hyperconnectivity application of



Dr. S. Somanath, Chairman, ISRO lights the lamp

next-generation communication" was conducted during 27 to 28 October 2023. The Convention was held at IEI Kochi Local Centre under the aegis of Electronics and Telecommunication Engineering Division Board of IEI and in association with Naval Physical and Oceanographic Laboratory (NPOL) Kochi, a research organisation of DRDO under Government of India. Chief Guest Dr. S. Somanath, Chairman, ISRO inaugurated the Convention. Dr. G. S. Mundada, Chairman of ETDB of IEI presided over the function. Er. Shivanda Roy (President IEI), Er. Madhu S. Nair (CMD, Cochin Shipyard), Dr. Ajithkumar (Director, NOPL) and Dr. Ranganath G. (President-elect, IEI) were the guests of honour who addressed the gathering. Er. P. A. Salahudheen, Chairman, IEI Kochi Local Centre gave welcome address. Er. Sreepakash, Convener briefed about the Convention. Chief Guest Dr. Somanath gave away the awards and plaque to Eminent engineer Dr. E. Gopinath (Former VC, Vels University, Chennai), Dr. D. K. Singh (VC, Jharkhand University of Technology) and Dr. Amar Prathap Singh Pharwaha (Professor, SLIE, Punjab). Chief guest also gave away the awards to 3 Young Engineers Dr. Thushar Bala Saheeb Sandhan, Ms. Priya Pradeep and Dr. Rahul Prajeesh.



Inaugural address: Dr. S. Somanath

Er. Shivanda Roy (President IEI), Er. Madhu S. Nair (CMD, Cochin Shipyard), Dr. Ajithkumar (Director, NOPL) and Dr. Ranganath G. (President-elect, IEI) were the guests of honour who addressed the gathering. Er. P. A. Salahudheen, Chairman, IEI Kochi Local Centre gave welcome address. Er. Sreepakash, Convener briefed about the Convention. Chief Guest Dr. Somanath gave away the awards and plaque to Eminent engineer Dr. E. Gopinath (Former VC, Vels University, Chennai), Dr. D. K. Singh (VC, Jharkhand University of Technology) and Dr. Amar Prathap Singh Pharwaha (Professor, SLIE, Punjab). Chief guest also gave away the awards to 3 Young Engineers Dr. Thushar Bala Saheeb Sandhan, Ms. Priya Pradeep and Dr. Rahul Prajeesh.

Dr. Somanath talked on the future of Aerospace engineering and narrated that we can reach the US or Australia within a few Hours' journey from any Indian Cities by the year 2045. The valedictory function was presided over by Er. Gunan Saxena,

Er. Gunan Saxena,



Presidential address: Dr. G. S. Mundada

Member ETDB. Er. P. A. Salahudheen, Chairman, IEI Kochi Local Centre welcomed the gathering. Er. T. Sreepakash, Convener gave a summary of the activities during the last 2 days. Er. K. S. Babu, Hon. Secretary proposed vote of thanks. Er. V. Vijayachandran, MIE, CPAD-Director introduced the speaker. Er. Devendra Gill, Executive Director, DMRC, New Delhi gave a detailed description of the speaker's technical and academic background and his experience in various fields.

The speaker explained his personal experience with Dr. APJ Abdul Kalam while he was working in DRDO. He described his career in safety and specialization in fire safety and his experience while working with DMRC. The speaker correlated the relationship between quality and safety in industries. He also mentioned his close association with Dr. E. Sreedharan and renowned Railway Construction Engineers. He also compared the quality and dedication of Dr. APJ Abdul Kalam and Dr. E. Sreedharan in their professional fields. The session opened for discussion and various questions were answered related to safety and other related subjects.



Guest of Honour: Dr. G. Ranganath

The session opened for discussion and various questions were answered related to safety and other related subjects.

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Guest of Honour: Er. Shivanand Roy



Welcome speech: Er. P. A. Salahudheen



Convener: Er. Sreepakash

TRICHUR LOCAL CENTRE

2-10-2023: WORLD HABITAT DAY 2023

IEI TLC celebrated World Habitat Day on 2 October 2023. Dr. P. Josna Raphael, Professor and former Head, Department of Architecture & Planning, Govt. Engineering College, Thrissur was the chief guest. Prof. Dr. C. P. Sunil Kumar, FIE, Chairman presided over the function. Er. P. R. Kumar, MIE, committee member introduced the chief guest formally and in detail. Prof. Dr. E. K. Kurien, FIE, Hon. Secretary proposed vote of thanks.



Dr. P. Josna Raphael talks on the theme.

Dr. Josna Raphael pointed out that cities have long been in the forefront of economic growth and innovation. They can serve as powerful drivers of growth recovery. She highlighted the need for resilient urban economies. She explained how Pune became a resilient city based on Localised SDG (Sustainable Development Goals), Comprehensive approach to mobility, Ecological approach, Skills & Enterprise, Data observatory and Sabha pilots. After welcoming Chief Guest and all the participants, Chairman Dr. C. P. Sunil Kumar, in his presidential address, spoke on the importance of sustainable urban development and adequate housing. He said that cities have plethora of opportunities and their resilience contribute to GDP, in turn. He asserted that Robust digital infrastructure, Recovering quickly from disruptions, Innovation ecosystems and Sustainable mobility contribute to withstand shocks.

14-10-2023: WORLD STANDARDS DAY 2023

IEI TLC celebrated World Standards Day on 14 October 2023. Sri. S. V. Manoj Kumar, Deputy Controller, Legal Metrology Dept., Thrissur was the chief guest. Prof. Dr. C. P. Sunil Kumar, FIE, Chairman presided over the function. Er. P. R. Kumar MIE, Committee member introduced the chief guest formally and proposed vote of thanks.



Sri. S. V. Manoj Kumar talks on the theme.

Sri. S. V. Manoj Kumar has underlined the mandatory, technical and legal requirements in legal metrology (LM). He emphasised the rules made under the LM act and explained how consumer protection is ensured. He narrated traceability of standards. And also penal provisions, offenses and penalties with regard to use of weighing & measuring instruments. After welcoming chief guest and all the participants, Chairman Dr. C. P. Sunil Kumar, in his presidential address, gave an introduction on the requirements which have the object of ensuring public guarantee from the point of view of security and accuracy of the weighments and measurements. He said that legal metrology dept. is the main organ for standardization and trade discipline in weights and measures and commodities in packaged form.

25-09-2023: NATIONAL SEMINAR ON COMPUTER VISION AND ROBOTICS

IEI TLC conducted National Seminar on Computer Vision and Robotics in association with Mechanical Engineering Division at Government Engineering College (GEC), Thrissur on 25 September 2023. Dr. K. P. Sathish, Principal inaugurated the Seminar at Gloria Gopakumar Hall, GEC, Thrissur. Prof. Dr. C. P. Sunil Kumar, FIE, Chairman, TLC presided over the function. Dr. R. S. Sudheesh, Associate Professor, Govt. Engineering College, Kozhikode and Dr. P. Ezudheen, Assistant Professor, Govt. Engineering College, Thrissur were the main resource persons. Dr. V. Lijo, Professor & Head, Dept. of Mechanical Engineering, Prof. Dr. E. K. Kurien, FIE, Hon. Secretary, TLC and Prof. Ajith C. Menon, Convenor spoke on the occasion.

In his talk, after introducing robotics, Dr. R. S. Sudheesh empha-

sised on visual feedback and ultimate computer vision integration into robot-guided interventions. Then he threw light on Collaborative robotics in which humans can work together in the same place as robots, making the entire process much easier and less time-consuming. Dr. P. Ezudheen spoke on computer vision that aims to give computers the ability to see by building algorithms that process digital images or videos. He pointed out that it is mostly concerned with image classification, object detection, tracking, and pose estimation. Thrissur were the main resource persons. Dr. V. Lijo, Professor & Head, Dept. of Mechanical Engineering, Prof. Dr. E. K. Kurien, FIE, Hon. Secretary, TLC and Prof. Ajith C. Menon, Convenor spoke on the occasion.



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Dr. R. S. Sudheesh talks on the theme.



Principal Dr. K. P. Sathish inaugurates the Seminar



Chairman Prof. Dr. C. P. Sunil Kumar delivers presidential address



view -1 of the audience



Hon. Secretary Prof. Dr. E. K. Kurien delivers special address



View-2 of the audience



Dr. P. Ezudheen talks on the theme.



Prof. Dr. C. P. Sunil Kumar lights the lamp.



Prof. Ajith C. Menon proposes vote of thanks.



Dr. R. S. Sudheesh interacts with the students.

29-11-2023: TECH SESSION

Trichur Local Centre organized a Technical Session on the topic "Freelancing Engineering Consultants in Online Environment - A Need and Opportunity" on 29 November 2023. Er. K. V. Ramachandran, FIE, Freelance Offshore Structural Consultant was the guest speaker who spoke on the above topic. Er. V. Thomas John, Chairman delivered the presidential address. Dr. Hoby P. M., MIE introduced the Chief Guest formally and in detail. Prof. Dr. C. P. Sunil Kumar, FIE, Immediate Past Chairman participated in floor discussion and presented memento to Er. K. V. Ramachandran, FIE. Er. Kumar P. R., Hon. Secretary proposed vote of thanks.



Er. K. V. Ramachandran, during his deliberations, stressed the need for seeking expert opinion on projects. He discussed the flaws in design crept into projects through case studies. This situation demands for the verification and vetting of projects by a freelance expert in order ensure safety and unbiased technical review of project reports. He also explained how expert opinion can be pooled to solve issues occurring in ongoing and completed projects through online consultancy.

PALGHAT LOCAL CENTRE

06-10-2023: WORLD HABITAT DAY

The Institution of Engineers (India), Palghat Local Centre observed the World Habitat Day. Dr. Bharati Raj J., Assistant Professor, Department of Civil Engineering, NSS College of Engineering, Palakkad was the keynote speaker. This year's theme for World Habitat Day was 'Resilient urban economies: Cities as drivers of



growth and recovery'. Er. K. Madanamohan, Chairman presided over the function. He also delivered an introductory speech. Dr. C. Pradip, Hon. Secretary introduced the keynote speaker. Dr. V. B. Panicker (Former Principal, NSS College of Engineering), Er. K. Ravindran (Former Technical Member, Kerala Water Au-

thority) and Er. A. V. Rajappan (Managing Director, Navabharat Systems), Er. A. Nandhakumar (Former Chief Operational Manager, IOC) also spoke. The presentation was followed by a detailed discussion on the sustainable development potential and current status of Indian cities. Dr. C. Pradip proposed vote of thanks.

14-10-2023: WORLD STANDARDS DAY

The Institution of Engineers (India) Palghat Local Centre celebrated World Standards Day. Er. Rino John, Scientist-D/Joint Director, Bureau of Indian Standards (BIS), Kochi Branch was the keynote



Er. Rino John

speaker who talked on the theme of the day "Shared Vision for a Better World: Incorporating SDG 3". Er. K. Madanamohan, Chairman presided over the function. He also delivered an introductory speech. Dr. C. Pradip, Hon. Secretary introduced the keynote speaker to the audience. After detailed presentation on the theme, there was a detailed interaction between audience and the speaker. Dr. C. Pradip proposed vote of thanks.

25-11-2023: TECH SESSION

The Palghat Local Centre organized a Technical Session on the topic "Digital Fabrication in the Construction Industry" at Hotel Gazala Palakkad on 25 November 2023. Dr. A. V. Rahul, As-



sistant Professor, Civil and Environmental Engineering Dept., IIT, Tirupati was the guest speaker who spoke on the above topic. Er. K. Madhana Mohan, Immediate Past Chairman delivered the presidential address and gave a brief introduction of the topic. Dr. B. Rajesh Menon, Hon. Secretary welcomed all members to the meeting. Dr. Nisha A. S., Committee Member introduced the guest speaker.

In the presentation, Dr. A. V. Rahul said that automation techniques have recently gained significant attention in the construction industry. He presented different automation techniques and their advantages. The programme concluded at 7.50 p.m. with vote of thanks by Er. D. Ajith, Committee Member.

ONE DAY SEMINAR ON 'COMPASSIONATE COMMUNITIES: TOGETHER FOR PALLIATIVE CARE'

14-10-2023: One Day Seminar on "Compassionate Communities: Together for Palliative Care" in connection with World Hospice and Palliative Care Day was organised by The Institution of Engineers (India) Kerala State Centre under the aegis of Interdisciplinary

Coordination Committee of IEI in association with Rajeswary Foundation, Thiruvananthapuram. The Seminar started with a Palliative Run 2023 from Rakthasakhi Mandapam to Kanakakunnu Palace. The event was flagged off by Dr. S. L. Sreeparvathy, IRS, Additional Commissioner, Customs, Central Excise and Central GST. She addressed the participants.



Dr. S. L. Sreeparvathy, IRS addresses

Dr. V. P. Joy IAS, Former Chief Secretary, Kerala inaugurated the seminar. Prof. (Dr.) Jayaraju M., Chairman delivered the presidential address. Adv. B. Suresh Kumar, President, Rajeswary Foundation delivered the felicitation address. Sri. Manoj M. R., Secretary, Rajeswary Foundation welcomed the audience. Er. Roy Mathew, MIE, Honorary Secretary proposed the vote of thanks. Dr. S. Mohanakumar, Mission Director, Chandrayan 3, ISRO delivered lecture on "ISRO's Success Story of Chandrayaan - 3". Shri. Pradeep Ramachandran, Global Risk Professional & Life Transformation Coach delivered lecture on "Relation between Health, Knowledge and Communication". Dr. C. V. Prasanth, State Vice President, IMA, Trivandrum delivered the lecture on "Achieving Goals through Perseverance". Guest of Honour Ms. Saraswathy Nagarajan, Deputy Editor, The Hindu, Thiruvananthapuram delivered the lecture on "Improve the Quality of Life through Palliative Care". The seminar concluded with a Food Fest and Live Music Programme.



Palliative Run



Participants of Palliative Run



Dr. V. P. Joy IAS, Former Chief Secretary, Kerala Inaugurates the seminar



Sri. Manoj M. R., Secretary, Rajeswary Foundation delivers welcome speech.



Prof. (Dr.) Jayaraju M., Chairman, IEI Kerala State Centre delivers presidential address.



A view of Audience



Ms. Saraswathy Nagarajan



Mr. Pradeep Ramachandran



Dr. C. V. Prasanth



Dr. Mohana Kumar



Er. Roy Mathew

STUDENTS' CHAPTER ACTIVITIES

INDUSTRIAL VISIT - FCRI

The Institution of Engineers (India) Mechanical Engineering Division conducted an industrial visit to Fluid Control Research



Institute (FCRI) on 18 November 2023. Thirty students accompanied by a staff participated in the visit. HR personnel at FCRI detailed the history and working of the industry. After the introductory session, the participants were taken around to understand the working of the industry. FCRI provides the basic framework for technological development for the flow products industry and also serves as a national certifying authority and high-quality calibration laboratory. FCRI is a national Centre, registered under the Societies Act and comes under the Ministry of Heavy Industries, Government of India.



STATUTORY DAY CELEBRATIONS

11-10-2023 World Standards Day Celebrations: Lecture on the theme 'Shared Vision for a Better World: Incorporating SDG 3' by Dr. C. V. Prashant, State Joint Secretary, IMA Kerala & Consultant, Pain and Palliative Department, RCC.



WEDNESDAY TALK GLIMPSES

18-10-2023: Talk on "Space Robotics": by Dr. Biju Prasad B., Scientist/Engineer 'G', Group Head, CADG, VSSC, ISRO.



01.11.2023: Talk on 'Philosophy of Psychology and Music: Practical Applications and Uses in Daily Life' by Dr. V. Mohan Kumar, Principal, Kidz Palace Global Smart English School, Varkala.



08.11.2023: Talk on 'Find the Day from the Date within Seconds' by Prof. Dr. V. Rajendra Babu, Former Professor & Head (Civil), Dean (PG Studies), College of Engineering, Thiruvananthapuram.



15.11.2023: Talk on 'Intelligent Reflecting Surface Assisted Orthogonal Time Frequency Space Modulation – A new paradigm for 6 G' by Dr. Jinu Jayachandran, Assistant Professor, College of Engineering Thiruvananthapuram.



22.11.2023: Talk on "Smart Electricity Meters - When will Kerala become Smart?" by Er. J. Sudhakaran Nair, FIE, Former Deputy Chief Engineer, Kerala State Electricity Board.



29.11.2023: Talk on "Engineering Aspects in Traditional Architecture of Kerala" by Er. S. Kumar, FIE, Deputy Chief Engineer (Rtd.), KWA, Past Honorary Secretary & Committee Member Environmental Engineering Division, Institution of Engineers (India) Kerala State Centre.



06-12-2023: Talk on 'Public Private Partnerships - The Wonder Development Alternative and Corruption Deterrent ' by Er. Anilkumar Pandala, Managing Director, Enterprise Computing Solutions, P. Ltd. and Management Consultant.



IEI MEMBERSHIP

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The Institution of Engineers (India) Kerala State Centre Committee for the Session 2023-2025

SI No	Member Name	Position
1	ER P BALAKRISHNAN NAIR FIE	Chairman
2	ER (Adv) K R SURESH KUMAR MIE	Honorary Secretary
3	PROF (DR) M JAYARAJU FIE	Immediate Past Chairman
4	ER ROY MATHEW MIE	Immediate Honorary Secretary
5	DR G MADHU FIE	Council Member - Kerala
6	ER K K GOPALAKRISHNAN NAIR FIE	Council Member-ELDB
7	DR ANIL JOSEPH FIE	Council Member-CVDB
8	ER UDAYA KUMAR K S FIE	Agricultural Engineering Division
9	ER JAGADEESA CHANDRA PISHARADY S K, FIE	Aerospace Engineering Division
10	AR BINU S MIE	Architectural Engineering Division
11	DR P SOJAN LAL FIE	Computer Engineering Division
12	ER VENUGOPAL S, FIE	Chemical Engineering Division
13	ER RAAM KRISHNAN VINODH BABU SHYLAJA MIE	Civil Engineering Division
14	ER R MURUKESAN FIE	Civil Engineering Division
15	ER M P ELDHOSE MIE	Civil Engineering Division
16	ER MOHAMMED SAJIN S AMIE	Electrical Engineering Division
17	ER SHAJI JACOB MIE	Electrical Engineering Division
18	ER S KUMAR FIE	Environmental Engineering Division
19	ER T P RAVEENDRAN FIE	Electronics & Telecommunication Engineering
20	ER T SREEPRAKASH FIE	Electronics & Telecommunication Engineering
21	DR BIPINBAL P K MIE	Metallurgical & Materials Engineering
22	DR KOOMBEL ANTONY SIMON, FIE	Marine Engineering Division
23	PROF.(DR) C.P.SUNILKUMAR, FIE	Mechanical Engineering Division
24	ER GEORGE JACOB, MIE	Mechanical Engineering Division
25	DR SURENDRAN JOSE FIE	Production Engineering Division
26	ER SHIBU SHINE V C AMIE	Textile Engineering Division
27	DR MADHUSOODHANAN PILLAI K, FIE	Chairman, Kollam Local Centre
28	ER VELAYUDHAN NAIR G, FIE	Chairman, Kochi Local Centre
29	ER THOMAS JOHN V, FIE	Chairman, Trichur Local Centre
30	ER A V RAJAPPAN, FIE	Chairman, Palghat Local Centre
31	ER GIREESAN P, FIE	Chairman, Kozhikode Local Centre

Editor's Desk

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



Happy New year.

Being a powerful digital communication tool at our disposal, IEI KSC Newsletter viz. *Voice of Kerala Engineers* communicates directly the prospects of IEI and is useful for effective dissemination of information on the multitude of activities in consolidated form. All IEI Local Centres and Chapters in institutions/organisations are requested to forward the report of activities periodically to the Editor so that they can be incorporated into the Newsletter which will reach a large segment of stakeholders and professionals. Format for reporting each type of event will be circulated in due course to ensure uniformity and professionalism in content as well as layout. Team work makes our Deam work.

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