

The Institution of Engineers (India)

Coimbatore Local Centre

QUARTERLY NEWSLETTER

July 2024 | Volume 3

Dr J Krishnamoorthi FIE
Chairman, IEI CLC

Dr G Madhan Mohan FIE
Honorary Secretary, IEI CLC



The Chairman's Desk

Our IEI Coimbatore Local Centre proudly organized events commemorating “National Maritime Day”, “World Telecommunication and Information Society Day” and “World Environment Day” in the previous quarter. These global observances highlight the fundamental role engineers play in shaping our world. They focus on technological advancements, infrastructure innovation, and sustainable development practices. Such occasions serve as platforms to celebrate engineering achievements, inspire future generations, and promote international collaboration on critical global issues like climate change, energy efficiency, and urbanization. Recognizing these days underscores engineers’ essential contributions in improving quality of life, advancing technology, and driving global economic growth. It emphasizes the need for sustained investment in engineering education, research, and development to ensure a resilient future for all. Beyond these special events, IEI remains committed to organizing regular technical lectures and seminars aimed at enhancing professional development and fostering knowledge-sharing within the engineering community. These gatherings provide engineers and professionals opportunities to stay up-to-date of the latest advancements in their fields. Looking ahead, our Coimbatore Local Centre is preparing to host the “Royal Charter Day” and “Engineers’ Day” events in the upcoming quarter, alongside our ongoing activities.

Dr J Krishnamoorthi FIE
Chairman, IEI CLC

NATIONAL MARITIME DAY 2024

05.04.2024



IEI Coimbatore Local Centre in collaboration with Coimbatore Marine College organized a technical lecture titled “Sustainable Shipping: Opportunities and Challenges” to commemorate “National Maritime Day 2024” on 05.04.2024. The event featured guest speakers C/E Kaushik Das Gupta, Principal, Coimbatore Marine College and Capt. Balagopal Sunil, Head of the Department, Department of Nautical Science, Coimbatore Marine College. Dr J Krishnamoorthi, Chairman of IEI, Coimbatore Local Centre, extended a cordial welcome. C/E T Nedumaran, Academic Director of CMC Group of Institutions, delivered the felicitation address. C/E Kaushik Das Gupta explained AI applications in the shipping industry, emphasizing its role in fleet operations and risk management. Capt. Balagopal Sunil highlighted challenges and transformative changes in the maritime sector, discussing decarbonization and digitalization impacts. Dr G Madhan Mohan, Honorary Secretary of IEI, Coimbatore Local Centre, offered concluding remarks and a vote of thanks.

WORLD TELECOMMUNICATION AND INFORMATION SOCIETY DAY

18.05.2024



The “World Telecommunication and Information Society Day” was celebrated by the Institution of Engineers (India), Coimbatore Local Centre in collaboration with the Department of Electronics and Communication Engineering, PSG Institute of Technology and Applied Research (PSG iTech) on 18.05.2024. Dr J Krishnamoorthi, Chairman of IEI Coimbatore Local Centre delivered the presidential address. Dr P Vetrivelan, Associate Professor, Dept. of ECE, PSG iTech felicitated the event. The President of the Institution of Engineers (India) Dr G Ranganath’s recorded a message which emphasized the day’s importance was played. Dr M Jothibas, Assistant Professor, Dept. of ECE, PSG iTech introduced the speaker, highlighting his expertise in manufacturing engineering. Mr S Ramachandran, Principal Consultant - Manufacturing Engineering, Infosys Knowledge Institute, Bangalore delivered a technical lecture on the theme “Digital Innovations for Sustainable Development”. Mr Ramachandran discussed the application of IoT, AI, and data analytics in driving sustainability. The event concluded with a vote of thanks by Dr G Madhan Mohan, Honorary Secretary of IEI Coimbatore Local Centre.



WORLD ENVIRONMENT DAY 2024

13.06.2024



IEI Coimbatore Local Centre in collaboration with the SPCU (Environment Development) of PSG Polytechnic College, Coimbatore, celebrated “World Environment Day 2024” on 13.06.2024. The theme for this year was “Land Restoration, Desertification, and Drought Resilience”. The keynote lecture was delivered by Shri K Kalidasan, President of OSAI Environmental Organisation, Coimbatore.

The event commenced with welcome and presidential address by Dr J Krishnamoorthi, Chairman, IEI Coimbatore Local Centre. Dr B Giriraj, Principal, PSG Polytechnic College, offered felicitations, emphasizing the importance of such observances. A recorded speech by Dr G Ranganath, President of the Institution of Engineers (India), Kolkata was screened, highlighting the significance of World Environment Day. Dr V Chandrashekar, Head of the Department, Department of Apparel Technology, PSG Polytechnic College, introduced the guest speaker.

Shri K Kalidasan, emphasized the necessity of conserving water and energy, minimizing the use of fossil fuels, and highlighted the critical role of the Western Ghats. He encouraged attendees to actively participate in nature conservation efforts, underscoring the urgency to protect the biosphere, home to 30 million species that need our protection. The event concluded with a vote of thanks proposed by Dr G Madhan Mohan, Honorary Secretary of IEI, Coimbatore Local Centre.

ONE DAY SEMINAR ON "AUTOMATION IN FOUNDRIES"

03.04.2024

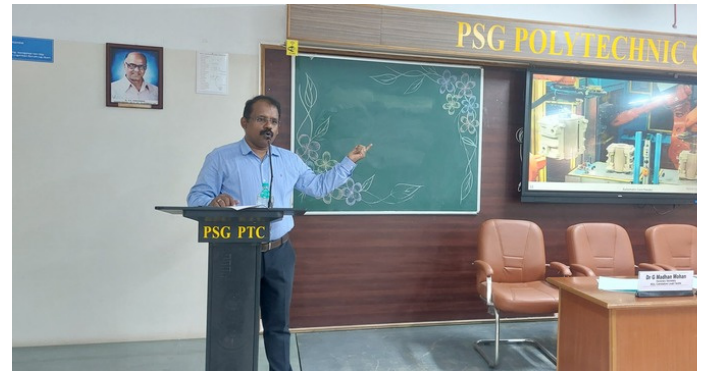


The Institution of Engineers (India), Coimbatore Local Centre in collaboration with the Department of Foundry Technology, PSG Polytechnic College (PSG PTC) organized a One Day Seminar on “Automation in Foundries” on 03.04.2024.

The inaugural session commenced with Dr J Krishnamoorthi, Chairman, IEI Coimbatore Local Centre extending a welcome and addressing the seminar’s significance. Dr B Giriraj, Principal, PSG Polytechnic College delivered the felicitation address, while Dr M Arasu, Head of the Department, Department of Foundry Technology, PSG PTC, provided opening remarks.

The chief guest Mr J Ganesh Kumar, Managing Director, Indo Shell Cast Private, Coimbatore, shed light on modernization and automation in foundries, particularly emphasizing the importance of automation in fettling. The inaugural session concluded with a vote of thanks by Dr G Madhan Mohan, Honorary Secretary, IEI Coimbatore Local Centre.

The technical sessions featured insightful lectures by industry experts. Mr P Sureshkumar, Chief Executive Officer, Agna Inc., Coimbatore discussed the digitization of quality control equipment and possibilities of big data analytics in foundry operations.



Mr S Elango, Founder and Chief Executive Officer, F Care, Coimbatore, elaborated on the latest developments in automatic high-pressure molding machines. Mr A Suresh Kumar, Manager, Foundry Applications, DISA India Limited, Bengaluru, provided insights into automatic core-making, assembly processes, and robotic finishing processes. Mr E Priyarag, Manager, Sales, DiFACTO Robotics and Automation Private Limited, Bengaluru, discussed the possibilities and challenges of robotic fettling, including its applications in die and sand casting processes.

Mr E Sreedhar Kumar, Senior Manager, PSG Technology Information, Forecasting and Assessment Council (TIFAC) Centre of Relevance and Excellence in Product Design, PSG College of Technology, Coimbatore, explained additive manufacturing in foundry applications, highlighting its various advantages. The seminar concluded with a visit to PSG TIFAC CORE, allowing participants to observe additive manufacturing processes firsthand.

The seminar ended with valedictory session, during which certificates were distributed to the participants.



ONE DAY SEMINAR ON “EMERGING TRENDS IN DEEP LEARNING FOR MULTIMODAL IMAGE FUSION AND ANALYSIS”

13.04.2024



IEI Coimbatore Local Centre in association with the Department of ECE, PSG Institute of Technology and Applied Research (PSG iTech), Coimbatore, successfully organized a One Day Seminar on “Emerging Trends in Deep Learning for Multimodal Image Fusion and Analysis” on 13.04.2024.

The event commenced with an inaugural session in which Dr P R Natarajan, Past Chairman, IEI Coimbatore Local Centre welcomed the gathering, followed by felicitations from Dr P Vijayakumar, Professor and Head, Department of ECE, PSG iTech. Dr M Jothibas, Assistant Professor, Department of ECE, PSG iTech provided the opening remarks, and Ms D Archana, Assistant Professor, Department of ECE, PSG iTech introduced the chief guest, Dr Sudhakar Radhakrishnan, who delivered an insightful address on the seminar’s significance. The inaugural function was concluded by the vote of thanks proposed by Dr M Yuvaraja, Joint Honorary Secretary, IEI, Coimbatore Local Centre.

The forenoon session featured two invited lectures. The first one was on “Medical Image Analysis using Wavelets” by Dr Sudhakar Radhakrishnan offering valuable knowledge

and encouraging students to pursue research in image processing.

The second lecture was on “Innovations in Medical Imaging Equipment: Harnessing the Power of Deep Learning” by Mr Boopathi Sakthivel, Founder and CEO, Prashan Medical Technologies, Coimbatore providing insights into medical devices and the biomedical industry’s landscape.

The afternoon session included two more lectures. Dr S Esakkirajan, Professor, Department of Instrumentation and Control Systems Engineering, PSG College of Technology, Coimbatore presented on “Transform Domain Based Analysis of Biomedical Signals”. He used practical examples to illustrate complex concepts and motivating students towards research.

Dr C Bagavathi, Assistant Professor, School of Computing, Amrita Vishwa Vidyapeetham, Coimbatore elucidated on “Deep Learning-based Multimodal Image Fusion and Future Perspectives”. He discussed various image processing techniques and future advancements.



The seminar concluded with participants feedback and certificate distribution, marking a successful and enriching event that significantly enhanced participants’ understanding and enthusiasm in the field of deep learning and image analysis.

ONE DAY SEMINAR ON “CIRCULAR DESIGN AND SUSTAINABILITY IN THE TECHNICAL TEXTILE SECTOR”

17.04.2024

The Institution of Engineers (India), Coimbatore Local Centre, in collaboration with the Department of Textile Technology, PSG College of Technology (PSG Tech), Coimbatore, organized a One Day Seminar on “Circular Design and Sustainability in the Technical Textile Sector” on 17.04.2024.

The seminar began with a cordial welcome from Dr J Krishnamoorthi, Chairman, IEI Coimbatore Local Centre. Dr R Murugan, Professor, Department of Textile Technology, PSG Tech delivered the felicitation address, and Dr S Viju, Associate Professor, Department of Textile Technology, PSG Tech outlined the seminar’s objectives. Dr V R Giridev, Professor, Department of Textile Technology, Anna University, Chennai and Dr Michael Rodrigues, Chief Executive Officer, Shakthi Knitting Private Limited, Tiruppur provided valuable insights during the inaugural address. The session concluded with a vote of thanks by Dr G Madhan Mohan, Honorary Secretary, IEI Coimbatore Local Centre.

In the first invited lecture, Dr V R Giridev discussed on “Sustainable Chemistry in Textile Processes” addressing environmental issues like water pollution, gaseous emissions, and solid waste in the textile industry. He emphasized high-energy irradiation methods for sustainable textile material modification.



The second invited lecture was by Dr Michael Rodrigues focusing on “Developments in Sustainable Chemical Processing of Textiles”. He explained waterless technologies such as supercritical and plasma technology, sustainable dyeing developments, and the social responsibility of stakeholders in sustainable textile processing.

The afternoon session featured two paper presentation slots. In the first slot, 13 papers were presented on biodegradable and sustainable fibers, yarns and fabrics. Dr R Murugan, Professor, Department of Textile Technology, Tech evaluated the presentations.

In the second slot, 12 papers were presented on the Development of Technical Textile Products from Textile Waste and Circular Economy Trends in Technical Textiles. Dr M Senthil Kumar, Professor, Department of Textile Technology, Tech evaluated the presentations. Additionally, the following paper presenters were selected for the Best Paper Award: Mr Harish Karthik, Mr Jaya Pranesh, Mr Hemanath Prabhu & Mr Santhosh Sivan from PSG Tech, Ms Divya Dharshini S, Mr Sivaramakrishnan M, Ms Faheema Faathima F & Mr Ravikesawan K from PSG Tech, Mr R Giridharan, Mr Jatin Motiwala & Mr Raj Buragohain from PSG Tech, Ms Dharshini C, Ms Suguna A & Mr Muhammed Zaid M from BIT and Mr Gokulraj G, Mr Raju P, Ms Abinitha S, & Ms Sowmiya R from PSG Tech. The seminar concluded with a valedictory session in which participants received certificate of participation.



ONE DAY SEMINAR ON “SUSTAINCON: BRIDGING IDEAS FOR A GREENER FUTURE”

27.04.2024

IEI, Coimbatore Local Centre in association with the Department of Civil Engineering, KPR Institute of Engineering and Technology (KPRIET), Coimbatore, organized a One Day Seminar titled “SustainCon: Bridging Ideas for a Greener Future” on 27.04.2024.

The seminar began with a cordial welcome from Dr J Krishnamoorthi, Chairman of IEI, Coimbatore Local Centre, followed by Dr R Ilangovan, Visiting Professor, Department of Civil Engineering, KPRIET, who briefed the seminar’s objectives. The inaugural address was delivered by Mr Yusuf Turab, Managing Director, Inhabit and Buildsapes, Coimbatore who provided valuable insights into sustainable construction. Dr G Madhan Mohan, Honorary Secretary of IEI, Coimbatore Local Centre proposed the vote of thanks.



The first invited lecture was given by Mr Yusuf Turab focused on “Green Building - Focus Areas”. He emphasized energy efficiency, water conservation, material selection, indoor environmental quality, site planning, and lifecycle assessment, providing participants with a comprehensive understanding of sustainable building design and construction.



The second invited lecture was presented by Mr L R Venkatesh, Managing Director, Vesat Renewables Private Limited, Coimbatore discussing on “Sustainable Environment using Solar Energy”. He provided an in-depth overview of solar energy technologies, their environmental benefits, and policy considerations, highlighting the role of solar energy in promoting environmental sustainability and mitigating climate change.

The afternoon session featured two paper presentation slots. The first slot showcased research on advanced construction materials and renewable energy evaluated by Mrs S Bharani, Assistant Professor, Department of Civil Engineering, KPRIET. The second slot focused on sustainable materials in concrete evaluated by Dr V Rajeshkumar, Assistant Professor, Department of Civil Engineering, KPRIET.

The seminar concluded with a valedictory session in which participants received certificate of participation, and paper presenters were awarded certificates. The event was successful, providing valuable knowledge and fostering a deeper understanding of sustainability in construction.



ONE DAY SEMINAR ON “AUTONOMOUS AUTOPILOT CONTROL SYSTEM DESIGN FOR SMALL-SCALE UAVS”

29.04.2024



The Institution of Engineers (India), Coimbatore Local Centre, in partnership with the Department of Aeronautical Engineering, Kumaraguru College of Technology, Coimbatore, organized a One Day seminar on “Autonomous Autopilot Control System Design for Small-Scale UAVs” on 29.04.2024.

The event commenced with an inaugural session in which Dr G Madhan Mohan, Honorary Secretary of IEI Coimbatore Local Centre welcomed the gathering. Dr S Raghupathy, Director, Strategic Planning and Review, Kumaraguru College of Technology, delivered a felicitation address, emphasizing collaboration and innovation. Dr M Senthil Kumar, Head of the Department, Department of Aeronautical Engineering, Kumaraguru College of Technology provided insights into the seminar's theme and objectives. The keynote address by former group Captain Desikan Srinivasan, Senior UAV Engineer, De Drone World Solutions, Coimbatore highlighted the advancements and challenges in unmanned systems. The session concluded with a vote of thanks by Mr S Muthukumar, Assistant Professor, Department of Aeronautical Engineering, Kumaraguru College of Technology, Coimbatore.

The forenoon session featured two invited lectures. The first, by former group Captain Desikan Srinivasan was focused on “Autonomous Control Systems in UAVs” covering the latest advancements, challenges, and future prospects in UAV autonomy.

The second lecture was given by Mr K R Venkatesh, Senior Ground Instructor at Haps Aviation Academy and Jeyam Aviation Pvt Ltd, Coimbatore on “Autonomous Autopilot Control System Design for Small-Scale UAVs” discussing design considerations and the critical role of autopilot technology.

The afternoon session continued with two more insightful presentations. Mr Hari Janarthanan, Director of Technology & Solutions and Co-Founder of Birdscale Technology in Coimbatore presented on “AI Trends in UAV - Building Fortune using Drones” highlighting AI applications and trends in UAV technology.

Mr Pranav Rathod, a skilled Drone Engineer from Jet Aerospace Aviation Research Centre in Kerala delivered a lecture on “Drone Intelligent Systems” discussing advancements in AI, machine learning, and computer vision for enhancing UAV operations.

The seminar concluded with a valedictory session in which participants received certificates of participation. The event was a successful one, offering valuable insights into the cutting-edge technologies driving the future of small-scale UAVs.



ALL INDIA SEMINAR ON “DESIGN OF ADVANCED 5G ANTENNA AND PROTOTYPE TECHNOLOGIES”

02.05.2024 & 03.05.2024



IEI, Coimbatore Local Centre in collaboration with the Department of Electronics and Communication Engineering, Coimbatore Institute of Technology, Coimbatore organized an All India Seminar on “Design of Advanced 5G Antenna and Prototype Technologies” during 02-03, May 2024. The event commenced with a welcome address by Dr G Madhan Mohan, Honorary Secretary of IEI Coimbatore Local Centre, followed by a felicitation address from Dr A Rajeswari, Principal, Coimbatore Institute of Technology. Dr M Poongothai, Professor and Head I/c, Department of ECE, CIT, outlined the seminar’s objectives. Dr I S Akila, Associate Professor, Department of ECE, CIT introduced the chief guest, Dr Koushik Guha, Associate Professor & Head, Department of ECE, National Institute of Technology, Silchar, Assam. Dr Koushik Guha provided insights into 5G networks. The inaugural session concluded with a vote of thanks from Ms M Ramya, Assistant Professor, Department of ECE, CIT.

The seminar featured several technical sessions. Dr Koushik Guha presented on “MEMS Driven Strategies for Advanced 5G Antennas and Beyond” discussing the latest techniques in 5G antenna design. Dr S Kanthamani, Associate Professor, Department of ECE, Thiagarajar College of Engineering Madurai delivered a session on enhancing classroom teaching for antennas.

Mr G Dhanush, HF Application Engineer, Entuple Technologies Private Limited Bangalore discussed the “Roadmap of 5G Revolution and Beyond with Ansys HFSS” focusing on simulation software challenges. A technical paper presentation session seven projects on 5G and antenna technology were presented and evaluated by a panel of experts.

The second day began with a lecture by Dr Milind Thomas Themalil, Assistant Professor, Department of ECE, Indian Institute of Information Technology, Kottayam, Kerala on “Next Generation Antenna Design” exploring advancements in data transfer and extended reality.

Dr S Mathivanan, Assistant Professor, Department of ECE, Government College of Technology, Coimbatore discussed the characteristics and design techniques of low-power MIMO antennas. In the afternoon, Dr K Duraisamy, Technical Lead, Entuple Technology Solutions India Private Limited Coimbatore presented on “Antenna Fabrication and Prototyping” detailing microstrip antenna production.



Dr I S Akila, Associate Professor, Department of ECE, CIT handled a session on “Antenna Prototyping using PCB MATE 300 Watts Fabrication Machine @ 5G Innovation Center” highlighting opportunities for high-frequency materials in 5G.

The seminar concluded with the distribution of certificates to participants, marking the successful completion of an insightful and informative event on advanced 5G antenna design and prototyping technologies.

ALL INDIA SEMINAR ON “SUSTAINABILITY THROUGH GREEN VEHICLES: POWERED BY HYDROGEN, FUEL CELL, CNG, AND FLEX FUEL”

15.05.2024 & 16.05.2024



The Institution of Engineers (India), Coimbatore Local Centre, in association with the Department of Automobile Engineering, Hindusthan College of Engineering and Technology (HICET), organized an All India Seminar on “Sustainability through Green Vehicles: Powered by Hydrogen, Fuel Cell, CNG, and Flex Fuel” during 15-16, May 2024. The event began with a welcome address by Dr J Krishnamoorthi, Chairman, IEI Coimbatore Local Centre. Dr J Jaya, Principal, HICET, delivered the felicitation address, and Dr C Sabarinathan, Professor and Head, Department of Automobile Engineering, HICET provided an overview of the seminar. The chief guest, Mr P K Sivakumar, Manager, Volvo Eicher Commercial Vehicles Limited, Coimbatore emphasized the importance of sustainability through green vehicles in his address. Dr V T Gopinathan, Associate Professor and Head, Department of Aeronautical Engineering, HICET concluded the inaugural session with a vote of thanks.

The seminar featured multiple technical sessions, beginning with a lecture by Mr P K Sivakumar on the “CNG Revolution” highlighting the benefits and challenges of using Compressed Natural Gas. Dr V Mahesh Kannan, Assistant Professor, Department of

Automobile Engineering, PSG College of Technology gave a lecture on “Hydrogen and Fuel Cell Applications” focusing on the efficiency and environmental benefits of fuel cells. Dr D Senthilkumar, Assistant Professor, Department of Mechanical Engineering, Amritha Vishwa Vidyapeetham, Coimbatore explained the potential of Flex-Fuel Vehicles, emphasizing the role of biofuels in reducing greenhouse gas emissions. The first day also included a technical paper presentation session with four papers on innovative automotive technologies. Topics included a driver dizziness alert system, nano-material catalytic converters, and the testing of hydrogen and biodiesel in reactivity compression ignition engines.



The second day began with a lecture by Mr P Prasanthkumar, Chief Technical Consultant, Haritha Mobility Solutions, Coimbatore on the impact of E-mobility in combating climate change, followed by a hands-on session with Toyota Hybrid Electric Vehicles by Mr V Manikandan, Trainer and Process Co-ordinator (Sales), Anaamalais Toyota, Coimbatore. The afternoon session featured four more technical paper presentations, covering topics such as natural fiber composites for thermal insulation, regenerative clutch power generation systems, and safety car door lock systems using PIR sensors.

The seminar concluded with a valedictory session, where participants were commended for their contributions to advancing green vehicle technology. The event was a resounding success, fostering discussions on sustainable transportation solutions.

ONE DAY SEMINAR ON “NOVEL TECHNICAL TEXTILES PRODUCTS- TECHNOLOGY, PRODUCTION & APPLICATIONS”

28.06.2024



The Institution of Engineers (India) Coimbatore Local Centre in collaboration with the Department of Textile Technology, PSG Polytechnic College, Coimbatore, organized a One Day Seminar on “Novel Technical Textiles Products - Technology, Production & Applications” on 19.06.2024.

The seminar began with a welcome address by Dr G Madhan Mohan, Honorary Secretary of IEI, Coimbatore Local Centre who highlighted the seminar’s significance. Dr B Giriraj, Principal of PSG Polytechnic College delivered the felicitation address, emphasizing the importance of novel technical textiles. Dr M Senthilkumar, Head of the Department, Department of Textile Technology, PSG Polytechnic College provided an overview of the seminar’s objectives.

The chief guest, Mr S Viswanathan, Director of Business at HUESKER Asia Pacific Pte Ltd, Singapore discussed the importance and wide-ranging applications of novel technical textile products. The session concluded with a vote of thanks by Dr B Sathish Babu, Senior Lecturer, Department of Textile Technology, PSG Polytechnic College.

The forenoon session featured two invited lectures.

The first, by Dr J C Sakthivel, Associate Professor, Department of Textile Technology, PSG College of Technology, Coimbatore, spoke on “Latest Trends in Technical Textiles”. He elaborated on the manufacturing processes of nonwovens, classifications of technical textiles, and key industry players in Tamil Nadu.

The second lecture, by Mr S Viswanathan, Director Business, HUESKER Asia Pacific Pte Ltd, Singapore presented on “Technical Textile Products and their Applications”. He covered various categories of technical textiles, such as Agrotech, Buildtech, and Geotech, providing detailed insights into geotextile products.

The afternoon session continued with two more insightful presentations. Mr V Viswanathan Murugesan, Manager - CRM & Business Development, Texperts India Pvt Ltd, Mumbai, Maharashtra discussed “Technical Textile Products and their Manufacturing Methods”. He focused on raw material selection, cross-segment distribution, and essential qualities of textile engineers, displaying various technical textile products.

Mr S Sivakumar, Principal Scientific Officer - Gr. ‘A’, Head - Textile Chemistry Division, The South India Textile Research Association, Coimbatore, presented on “Technical Textiles in SITRA”. He covered Meditech objectives, including testing, evaluation, standard formulation, and pilot-scale production of medical textile products like face masks and surgical gowns, displaying several products.

The seminar concluded with a valedictory session and the distribution of certificates to participants. The event provided valuable insights into the advancements and applications of technical textiles, marking an informative and enriching experience for all attendees.

ONE DAY SEMINAR ON “RECENT ADVANCEMENT IN SOLAR ENERGY TECHNOLOGIES: START UP INITIATIVES, OPPORTUNITIES, CHALLENGES AND FUTURE PROSPECTS”

28.06.2024

The Institution of Engineers (India) Coimbatore Local Centre in collaboration with the Department of Electrical and Electronics Engineering, Sri Ramakrishna Engineering College (SREC), Coimbatore, organized a One Day Seminar on “Recent Advancements in Solar Energy Technologies: Start-Up Initiatives, Opportunities, Challenges, and Future Prospects” on 28.06.2024.



The seminar commenced with a welcome address by Dr G Madhan Mohan, Honorary Secretary of IETI, Coimbatore Local Centre. Following his address, Dr P Karuppuswamy, Principal In-charge of Sri Ramakrishna Engineering College delivered a felicitation address, emphasizing the significance of solar PV systems and the reduction of carbon footprints towards sustainable development. Dr S Allirani, Professor & Head, Department of EEE, Sri Ramakrishna Engineering College provided insights into the theme and objectives of the seminar. The inaugural address was given by Chief Guest Mr L R Venkatesh, Managing Director of Vesat Renewables Private Limited, Coimbatore. He shared his expertise and experience, shedding light on the advancements and challenges in the field of renewable energy systems. The session concluded with a heartfelt vote of

thanks by Mr R Mohan Kumar, Assistant Professor, Department of EEE, Sri Ramakrishna Engineering College

Mr L R Venkatesh, Managing Director of Vesat Renewables Private Limited, Coimbatore delivered a lecture on “Advanced Solar Panel Technologies and Energy Storage Solutions”. His talk covered the latest advancements in solar panel technologies, focusing on efficiency improvements and sustainability benefits. He also emphasized the importance of integrating energy storage solutions with solar systems to enhance reliability and maximize energy utilization.

The second lecture was handled by Dr L Ashok Kumar, Professor, Department of EEE, PSG College of Technology, Coimbatore who presented on “Empowering the Green Revolution: AI, IoT, and Blockchain Transforming the Solar Energy Sector”. He highlighted the transformative potential of Artificial Intelligence (AI), Internet of Things (IoT), and Blockchain technologies in revolutionizing the solar energy landscape.

The third lecture was given by Dr S R Sivarasu, Managing Partner, Ram-Kalam Center for Energy Consultancy and Training, Coimbatore. He gave an insightful presentation on “Entrepreneurial Challenges and Opportunities in the Solar Energy Sector”. He navigated through the intricate landscape of the solar energy industry, shedding light on regulatory frameworks, financial considerations, and technological advancements.

The fourth lecture was handled by Mr R Mohan Kumar, Assistant Professor, Department of EEE, Sri Ramakrishna Engineering College who provided an engaging demonstration on “Solar PV System Modelling and Grid Integration using PV Emulator and Grid Tie Research System”. He guided participants through the intricacies of simulating solar PV systems and their seamless integration with the electrical grid.

TECHNICAL WEBINAR ON “RECENT TRENDS IN HEALTHCARE INNOVATION AND THE ROLE OF ACADEMIA”

23.04.2024



The Institution of Engineers (India), Coimbatore Local Centre in collaboration with Department of Biomedical Engineering, Hindusthan College of Engineering and Technology, organized a technical webinar on 23.04.2024. Dr Vivek Manoharan, Founder & CEO of 221B Biomedical & Teat at Home, and Co-Founder of Bipolar Factory in India and Singapore, served as the guest speaker, delivered a lecture on “Recent Trends in Healthcare Innovation and the Role of Academia”.

Dr J Krishnamoorthi, Chairman of IEI Coimbatore Local Centre delivered the presidential address. Dr S Saravana Sundaram, Professor and Head, Department of Biomedical Engineering, Hindusthan College of Engineering and Technology, delivered the felicitation address, while Dr M Ganga, Associate Professor, Department of Biomedical Engineering, Hindusthan College of Engineering and Technology introduced the guest speaker. Dr Vivek Manoharan elaborated on recent trends in the healthcare sector, discussing new inventions revolutionizing healthcare and opportunities in India, Singapore, and beyond. He also shared insights into entrepreneurship, prototype development, market value, and the concept of Micro Biom. The session was highly informative, with active participation from over 100 attendees. Dr G Madhan Mohan, Honorary Secretary of IEI Coimbatore Local Centre delivered the vote of thanks.

TECHNICAL LECTURE ON “IMPACT OF GPT ON INDUSTRIAL APPLICATIONS”

27.04.2024

On 27.04.2024, IEI Coimbatore Local Centre organized a technical lecture titled “Impact of GPT on Industrial Applications” in collaboration with the Department of Computer Science and Engineering, PSG Institute of Technology and Applied Research (PSGiTech). The guest speaker for the event was Mr Arul Mozhi Selvan, a Software Engineer from Ongil.ai, Chennai. The session began with a welcome from Dr J Krishnamoorthi, Chairman of IEI Coimbatore Local Centre. Following this, Dr R Manimegalai, Professor and Head of the Department of Computer Science and Engineering, PSG Institute of Technology and Applied Research, delivered a felicitation address.



Mr Arul Mozhi Selvan shed light on the significant impact of integrating GPT into various industrial applications. He emphasized how this integration can streamline processes and significantly enhance productivity. Notably, he explained about optimizing the utilization of search engines, highlighting the importance of harnessing AI technologies to swiftly and accurately obtain relevant information. Concluding the event, a vote of thanks was extended by Ms Asha John, Assistant Professor, Department of Computer Science and Engineering, PSG iTech expressing gratitude to the speaker, organizers, and participants for their valuable contributions and active participation.

TECHNICAL LECTURE ON “INDUSTRY-READY: STRATEGIES FOR EMPOWERING STUDENTS IN TODAY’S WORKFORCE”

06.05.2024



IEI Coimbatore Local Centre in collaboration with the Department of Mechanical Engineering, Sri Ranganathar Institute of Engineering and Technology organized a technical lecture titled “Industry-Ready: Strategies for Empowering Students in Today’s Workforce” on 06.05.2024. The lecture was delivered by Er G Ramkumar, Engineer R&D , Lakshmi Precision Technologies Limited, Coimbatore. Dr G Madhan Mohan, Honorary Secretary of IEI, Coimbatore Local Centre, welcomed the esteemed guests and participants, setting the stage for the informative session. Dr H Ganesan, Principal of Sri Ranganathar Institute of Engineering and Technology offered a felicitation address, emphasizing the importance of aligning academic learning with industry needs.

Er G Ramkumar delved into strategies for preparing students to meet the evolving demands of various industries, stressing the crucial role of bridging the academia-industry gap. The attendees gained valuable insights into the urgency of equipping students with the requisite skills and knowledge to excel in today’s dynamic workforce. The event concluded with a vote of thanks by Mr M Natrayan, Assistant Professor, Department of Mechanical Engineering Sri Ranganathar Institute of Engineering and Technology expressing gratitude to all involved.

FORTHCOMING ACTIVITIES

All India Seminar on “Electric Mobility’s Recent Trends and Advancements” (Under the aegis of ELDB) in association with the Department of Electrical and Electronics Engineering, SNS College of Technology during 05-06.07.2024 at MBA Seminar Hall, SNS College of Technology, Coimbatore.

All India Seminar on “Advances in Methods, Materials and Characterization Techniques for Laser Material Processing” (Under the aegis of MMDB) in association with the Department of Metallurgical Engineering, PSG College of Technology, Coimbatore during 12-13.07.2024 at PSG College of Technology, Peelamedu, Coimbatore.

One Day Seminar on “Calibration of Measuring Instruments and Form Measurements” (Under the aegis of MCDB) in association with the Department of Production Engineering, PSG College of Technology on 19.07.2024 at PSG College of Technology, Peelamedu, Coimbatore.

All India Seminar on “AI-Powered 3D Printing: Bridging Innovation and Automation” (Under the aegis of PRDB) in association with the Department of Mechanical Engineering & Department of Electronics and Instrumentation Engg, Sri Ramakrishna Engineering College during 25-26.07.2024 at Sri Ramakrishna Engineering College, Coimbatore.

One Day Seminar on “Renewable Energy Integration in Chemical Engineering: Role and Challenges” (Under the aegis of CHDB) in association with the Department of Chemical Engineering, KPR Institute of Engineering and Technology on 31.07.2024 at Veena Hall KPR Institute of Engineering and Technology, Coimbatore.

OUTSTANDING ENGINEER AWARD 2024 NOTICE

The Institution of Engineers (India)

(Established 1920, Incorporated by Royal Charter 1935)

Coimbatore Local Centre

PSG Tech Campus, Peelamedu, Coimbatore - 641 004

Dr J Krishnamoorthi FIE
Chairman



Phone: 0422 - 2580733
E-mail: ieicoimbatore@gmail.com
Website: ieicoimbatore.org

Dr G Madhan Mohan FIE
Honorary Secretary

"A Century of Service to the Nation"

Ref: CLC/Outstanding Engineer/2024

Date: 01st July 2024

To
All Fellow Members
Attached to IEI, Coimbatore Local Centre

Sir / Madam,

Sub: Engineers' Day Celebrations - Outstanding Engineer Award 2024 - reg.

The Institution of Engineers (India), Coimbatore Local Centre felicitates distinctive fellow members as "Outstanding Engineer" every year during the Engineers' Day Celebrations on the occasion of the birthday of Dr M Visvesvaraya (15th September).

In this regard, self-nominations are invited from the Fellow Members (FIE) attached to IEI, Coimbatore Local Centre. The fellow members who are in [the enrollment as on 31.03.2024](#) are eligible for Outstanding Engineer Award 2024.

Interested Fellow Members (FIE) may kindly send their detailed resume (**two hard copies**) stating their distinctions, honours, outstanding achievements, contributions to engineering fraternity, The Institution of Engineers (India) and any other relevant particulars to the undersigned **on or before 31st July 2024**.

The Outstanding Engineer Award is a one-time award hence previous awardees need not apply.

Thanking you.

Yours sincerely,

A handwritten signature in blue ink, appearing to read "G. Madhan Mohan".

Dr G Madhan Mohan
Honorary Secretary

YOUNG ACHIEVER AWARD 2024 NOTICE

The Institution of Engineers (India)

(Established 1920, Incorporated by Royal Charter 1935)

Coimbatore Local Centre

PSG Tech Campus, Peelamedu, Coimbatore - 641 004

Dr J Krishnamoorthi FIE
Chairman



Phone: 0422 - 2580733
E-mail: ieicoimbatore@gmail.com
Website: ieicoimbatore.org

Dr G Madhan Mohan FIE
Honorary Secretary

"A Century of Service to the Nation"

Ref: CLC/Young Achiever/2024

Date: 01st July 2024

To
Members & Associate Members
Attached to IEI, Coimbatore Local Centre

Sir / Madam,

Sub: Engineers' Day Celebrations - Young Achiever Award 2024 - reg.

The Institution of Engineers (India), Coimbatore Local Centre felicitates proficient young members as "Young Achiever" every year during the Engineers' Day Celebrations on the occasion of the birthday of Dr M Visvesvaraya (15th September).

In this regard, applications are invited in the prescribed format from the Members (MIE) and Associate Members (AMIE) attached to IEI, Coimbatore Local Centre. MIE's & AMIE's who are in the enrollment as on 31.03.2024 and their age 40 years and below (as on 31.03.2024) are eligible for Young Achiever Award 2024.

Interested MIE & AMIE members may send **two hard copies** of the filled-in application (enclosed herewith) to the undersigned **on or before 31st July 2024**.

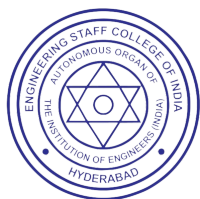
The Young Achiever Award is a one-time award hence previous awardees need not apply.

Thanking you.

Yours sincerely,

A handwritten signature in blue ink, appearing to read "G. Madhan Mohan".

Dr G Madhan Mohan
Honorary Secretary



Engineering Staff College of India (ESCI)

Autonomous organ of The Institution of Engineers (India)

www.escihyd.org

DIRECTOR (ENGINEERING STAFF COLLEGE OF INDIA)

ROLE

Director is the academic as well as the administrative head of ESCI and is expected to have proven administrative capabilities, with an excellent academic / industrial background with leadership qualities, to head an Institution of National repute.

PROFILE

A) Graduate degree in Engineering and/or Technology, preferably with Post Graduate degree in Engineering and/or Technology / Management / Ph D.

B) Preferably having Publications in National / International journals.

C) Minimum 20 years of experience out of which 5 years as Head of an Academic Institute of National Importance / in very senior position in R&D establishments / Private or Public Undertakings / Government Organizations.

D) Experience of conducting focused training programmes leading to skill development and certification.

APPLICATION FORMAT : Visit www.ieindia.org to download the Application Form

Age : Applicant should normally be below 58 years of age (relaxation in case of exceptional candidates). The appointment will be on contractual basis for a period of five years, as per usual terms and conditions.

CTC : 18 Lakhs per annum (Negotiable for exceptional candidates).

Location : ESCI, Hyderabad

APPLICATION PROCESS

The applicant shall submit the application (in MS Word format only) latest by 31 July 2024 in the prescribed format by e-mail to THE CHAIRMAN, SEARCH COMMITTEE FOR DIRECTOR-ESCI and two sets of hard copies of the application have to be posted to the following address in an envelope superscribing "Application for the post of Director-ESCI" :

The Chairman, Search Committee for Director-ESCI

C/o Secretary & Director General

The Institution of Engineers (India)

8, Gokhale Road, Kolkata 700020

Email ID : search.committee@ieindia.org

Newsletter Editorial Committee

Dr J Krishnamoorthi FIE
Chairman, IEI CLC

Dr G Madhan Mohan FIE
Honorary Secretary, IEI CLC

Dr M Senthilkumar FIE
Committee Member, IEI CLC

Dr T Ramesh MIE
Committee Member, IEI CLC

The Institution of Engineers (India)

Coimbatore Local Centre

PSG College of Tech Campus

Peelamedu, Coimbatore - 641004

Phone: 0422 - 2580733 / 80566 52764

Email: ieicoimbatore@gmail.com,

coimbatorelc@ieindia.org

Website: ieicoimbatore.org