

FROM PRESIDENT'S DESK



Well, IETE Mid Term Symposium is just over. We discussed a host of modern Information and Communication Technologies for Digital India with expert speakers from the domain. The theme was selected keeping in view the importance of Digital India that aims to integrate the government and the people of India for ensuring that the Govt services to the citizens are made available easily and efficiently. We talked about the creation of digital infrastructure, providing the digital services and promoting digital literacy; and how to strengthen impetus for further progress for e- services, products, devices, manufacturing and job opportunities. I congratulate all my colleagues & the Executive Committee of IETE Chandigarh Centre and management of CSIR-CSIO Chandigarh for their support and good show.

It is also a matter of great satisfaction that IETE organised three relevant Apex Forums in the past few months on the themes “**Bandwidth Management of 5G**”, “**Internet of Things (IOT)**” & “**My Village Smart Village**”. I congratulate all my colleagues and members at IETE PAC, Sarigam, IETE Pune Centre and IETE (Vadodara, Ahmedabad, Rajkot, Surat Sub-Centre & PAC Sarigam) respectively for organizing these pertinent and appropriate forums, which were appreciated by all. This issue of newsletter carries the detailed reports and IETE shall be carrying forward its recommendations on these forums with concerned stakeholders. These reports are also available on www.iete.org.

For the past two years, the slow progress of the court case on the recognition issue of our certifications impacting IETE students has been a point of focus and we have been making all efforts for redressal of our concerns in this regard. Though we are distressed, but I am convinced that our student initiatives are as good as those in any professional society and IETE is following the best practices. We may have been running deficits – but, our Governing Council and Centre’s Executive Committees are working closely and are actively exploring all avenues to weather the downturn and focus on adding value to the IETE membership / courses. New paradigms are being worked upon which will show positive effect on membership growth and our foray in the domain of skill development and niche courses which will find echo in the industry.

Citing the need to harness human skills and encouraging entrepreneurship, IETE is expanding its reach for the development of the skill capacities of the student community. Under recent PMKVY scheme, IETE trained yet another 90 students (in batch of 30 students each) at IETE HQ for the telecom sector course on Optic Fibre Splicer. I am happy to say that as compared to our earlier experience the number of trained students and number of successfully assessed students have been increased exponentially.



Talking of publications, IETE relies on the significant contributions of members to make its publications the best. We actively seek manuscripts for the IETE Journals, which are popular with scientific community. If you are working on an interesting research or have useful information on related concepts of interest to our field, consider submitting a manuscript. Our journals have an international reach and can be used to extend good work. For more information, kindly visit www.iete.org/publications.

Our Annual Technical Convention is scheduled from 25 to 26 Sept 2016 at IETE HQ New Delhi. I extend my invitation to all members to participate actively and make it a success.


Smriti Dagur

CONTENTS

From President's Desk	1
Report of IETE - 47 th MTS 2016	2
20 th Sir C V Raman Memorial Lecture	4
Prof S N Ghosh Award Lecture 2016	4
IETE Apex Fora (2015-16)	5
News from Centres	8
ISF Activities	24
PAC Activities	32
IETE Kakardooma Building Inaugurated	33
Celebrating IETE Achievers	35



IETE HQs, New Delhi



News from Headquarters

IETE 47th MTS on “Modern Information and Communication Technologies for Digital India” (MICTDI-2016)

Inspired by the Government’s vision, IETE created a platform through its annual event Mid Term Symposium for the stakeholders to contribute towards success of Digital India mission. The theme for the deliberations during the 47th Mid-Term Symposium (MTS) was “**Modern Information and Communication Technologies for Digital India**”, with the aim of contributing meaningfully towards achieving the goals of ICTs and making the participants aware of digital gains, digital technologies that would be central to the realization of the “Digital Bharat” dream. It was conducted successfully from 09-10 April, 2016 at CSIO, CSIR, Chandigarh. **Hon’ble Professor Kaptan Singh Solanki, Governor of Haryana, Punjab & Administrator-Chandigarh**, inaugurated the function. The proceedings started with lighting of the inaugural lamp by dignitaries. With the Chief Guest, Hon’ble Professor Kaptan Singh Solanki, the other dignitaries sitting on the dais during inaugural session were: **Prof R K Sinha**, Director, CSIR-Central Scientific Instruments Organization, the Guest of Honour; **Smt Smriti Dagur**, President IETE; **Prof R K Shevgaonkar**, Dept of Electrical & Electronics, IIT Mumbai, the speaker for 43rd Vikram Sarabhai Memorial Lecture; **Prof (Dr) KTV Reddy**, Chairman, Technical programmes & Publicity Committee, **Prof (Wg Cdr) P Prabhakar**, Zonal Coordinator and **Shri S K Angra**, Chairman IETE Chandigarh Centre.

The welcome address was delivered by **Shri Angra**, Chairman of the host IETE Centre, Chandigarh. **Prof (Dr) KTV Reddy**, briefed the gathering about the objectives and ongoing activities of IETE. He highlighted the importance and rationale for choosing the theme of MTS, setting the tone right for the deliberations. Mrs Smriti Dagur in her address also touched upon the core activities and functions of IETE and how it has maintained its charter through all these years of services to the country. She requested the Chief Guest to look into the IETE recognition problem. Prof R K Sinha greeted everyone warmly to his picturesque campus and commented on the activities of CSIR & CSIO. **The Chief Guest** appreciating the theme of the event said that Digital India is important for the growth and future of the country. He proclaimed that 21st century would belong to India as per the prophecies of the great men. Calling it a century of technologies, he emphasized that to succeed in the initiative of ‘Make in India’ the only way possible is to go digital. Talking of different challenges like unemployment, poverty, illiteracy, he called for everyone’s meaningful contribution to fight back these impediments and emerge successful. The vote of thanks was delivered by **Prof (Wg Cdr) P Prabhakar**.

A souvenir commemorating the event was released by the dignitaries, on the occasion.



The introduction of the speaker for 43rd Vikram Sarabhai Memorial lecture, **Prof R K Shevgaonkar**, Dept of EE, IIT Mumbai, was given by **Maj Gen P K Jaggia, VSM (Retd)**, Secretary General, IETE, to the audience. The topic for the 43rd Vikram Sarabhai Memorial lecture was “**Envisioning Future & Preparing for It**”,

which was a topic of global interest. **Prof R K Shevgaonkar** in his address said that most of the progress of modern science and engineering has taken place in last hundred years. But many of the fundamental principles of modern science have been established just in the last century. The scientific and technological progress in the last century has been catastrophic which changed the paradigm of life and societal development. The two primary factors which changed the world are rapid transportation and high speed communication. The first one contributed to creation of mega cities while the second one contributed to creation of A3 knowledge society. In the 21st century humans exists simultaneously in two worlds, namely cyber and physical. These two worlds have very different impacts on society and have different rates of

growth. The physical world is linear while the cyber world is exponential. It is therefore important that one understands both the worlds while envisioning the future and preparing for it. The future envisioning exercise can be either an extrapolation exercise or path defining exercise. If envisioning the future is an extrapolation exercise, then extrapolation of the physical world is rather straightforward from the past but as the history tells, the extrapolation of the cyber world is just impossible beyond even a decade. On the other hand, if it is a path defining exercise (that is what it should be), it is worthwhile to ask what the correct path for human development is! Science and engineering can solve the problems but correct problems are to be defined. The definition of problem should include human comfort, values, sustainability, happiness, equity, inclusiveness etc. The engineers and social scientists therefore have to closely work in defining correct problems and paradigm of development that is sustainable, energy efficient, harmonious with the nature and will uplift the humanity as a whole. A new education paradigm beyond the information and skill development needs to be developed. It is worrisome that many of the natural resources are at the verge of exhaustion just in coming one century due



to their excessive use. A new value system is to be developed for making the society perennially sustainable. Creation of value system is a slow process. It may require generations. The current century therefore should focus on taking corrective measures needed for sustainable and inclusive development and on advancing technology for humanity as a whole.

It was a dynamic presentation- content, style and enthusiasm were in line with the topic theme.

The Lal C Verman Award Lecture 2016 was delivered by Dr KVBV Rayudu, Research Centre Imarat (RCI), Vignyanakancha PO, Hyderabad, on “Quality & Reliability Aspects for Achieving High Reliability for Missile System Avionic Products”.



In his address he emphasized on the factors like quality and reliability as of paramount importance for complex technological missions like One Shot Missile Systems. He said since missile system avionics products (Control, Guidance, Navigation and On Board Computers Systems) have to perform to specifications and meet desired performance objectives, the quality and reliability of avionic products is very critical and play key role in mission success. These factors have to be incorporated in the the products right from the design stage and subsequently during various stages of its life cycle. Elaborating he said, reliability analysis during design stages (PDR/CDR) using techniques like parts count/stress methods using MIL-HDBK-217 FN2 Model for high reliability electronic parts and use of fuzzy logic/numbers for finding failure rates, are important. Reliability modelling is to be used for complex missile systems considering structural complexity of systems. Once products are developed it is then subjected to Environmental Stress Screening (ESS)

with well defined ESS Screening Policy for Avionic Products to weed out infant mortality and workmanship defects and policy to be dynamically modified. Failure Analysis techniques and implementation of Web based FRACAS and e-quality control/assurance methods for the failures reported during various phases of testing to be analysed, root cause to be established, corrective and preventive actions to be identified and implemented and database to be maintained and shared among design houses, projects and vendors/workcentres for reliability improvement of products. However, the quality documentation and implementation should be part of Quality Management Systems at organization level based on ISO 9001/AS 9100 standards to achieve high reliability Avionic Products near to six sigma level. The presentation was greatly appreciated by the audience.

Invited talks were by Dr Manjit Singh, Director, DRDO-TBRL, Chandigarh; Prof Anurag Sharma, IIT Delhi on “Optical Fiber: Life line of the Internet”; Dr Ajay Kumar Sharma, Director, NIT, Delhi on “Wireless Sensors Networks”; Shri Nagendra Goel, Chairman Sectoral Skill Development Council, Delhi; Dr Munna Khan, Prof, Jamia Millia Islamia (Central Univ) New Delhi, India, on “An Approach Towards Realization of Digital India: Improving Gravity Tolerance of Aircraft Pilots”; Dr Sunny Sharma, Foetron India, on “New Business Model in Digital India” and Dr Ankita Kashyap, Picknuts India. The presentations were engaging and meaningful.

An exhibition was planned during the symposium to show case emerging technologies in the field of ICTs. It provided an opportunity to the exhibitors to showcase their products, services and explore business opportunities. About 180 technical papers of good quality were presented in three tracks organized in parallel sessions. The programme was covered by the media and was successful in having useful technical discussions with the experts in the field.



20th Sir C V Raman Memorial Lecture 2016

The 20th Sir C V Raman Memorial Lecture was delivered by **Prof K Thyagarajan**, Officiating Director, IIT Delhi on “**Integrated Quantum Photonics**” on 26th Feb 2016 at the Delton Hall, IETE, New Delhi. **Brig Lakshman Singh, VSM (Retd)**, Vice-President IETE, presided over the function. Prof Thyagarajan gave an introduction on photonic quantum technology that is gaining importance. He showed an experiment on the first quantum photonic technology that was on quantum key distribution. He also explained the various features offered by quantum technologies such as: Ultra secure communications, Sensors of unprecedented precision and more powerful computers. He also briefed on the latest research topics such as secure quantum internet, integrated optic chips, quantum random number generation, photonic integrated waveguide, quantum cryptography and spectrography and many more interesting areas.

The lecture was of great learning experience in the field of quantum photonics and exposed the high in-depth knowledge of the speaker.



Prof K Thyagarajan, the speaker for the Memorial Lecture receiving memento from Brig Lakshman Singh, VSM (Retd), Vice-President IETE and Prof (Dr) S K Aggarwal, Member, TPPC IETE during the occasion.

Prof S N Ghosh Award Lecture 2016

To perpetuate interest in fields of research, Prof S N Ghosh had made an endowment to IETE Allahabad Centre to organize every year a research level lecture from an eminent scientist of India or abroad and recognize his outstanding contribution and achievements in the field. The Allahabad Centre therefore organizes the lecture by eminent scientists including many eminent personalities of the country.

This year this prestigious award was conferred on **Prof Shamim Ahmad**, Former Director, CEERI, Pilani, Former Vice Chancellor, Jamia Hamdard University, New Delhi and Former Professor of Nano Electronics Engineering, University of Malaysia. The award was conferred by the General Manager, NCR, Allahabad, **Er Arun Saxena** on 23rd April, 2016 at IETE Seminar Hall, IETE Allahabad



Prof Shamim Ahmad (second from right) the awardee of Prof S N Ghosh Endowment Lecture being felicitated by the dignitaries at IETE Allahabad Centre. The dignitaries from L to R : Er Arun Saxena, Shri M K Singh and Prof K K Bhutani, DF IETE.

Centre, Allahabad. The awardee delivered his award lecture on “**Engineered Nano Bio-materials—Approaching Tomorrow’s Intelligent Materials by Design**”. During his address, he said, “A major paradigm shift in materials by design became imminent with further possibility of adding ‘intelligence’ into their features as well. These intelligent nano-materials, quite akin to living organisms, are ultimately expected to be capable

of adapting autonomous changes in their characteristic properties adjusting to the external environmental conditions. In these developments there is an enormous contribution from genetic engineering and other disciplines of molecular biology to identify the interaction pathways involved in a complex hierarchy.” In his perception he highlighted role of intelligent nano-bio materials in medicines for psychological diseases.

IETE Apex Fora (2015-16)

➤ Bandwidth Management of 5G

The first IETE Apex Forum for 2015-16 on “**Bandwidth Management of 5G**” was held at IETE Professional Activity Centre, Sarigam (Gujarat) on 20th Feb 2016. **Brig (Dr) VD Abraham, SM (Retd)** Founder IETE Professional Activity Centre, Sarigam was the Guest of Honor on the occasion, while **Col Balraj Anand (Retd)**, Chairman, Skill Development & Industrial Coordination Committee (SD&ICC) coordinated the proceedings of the day. **Shri Sanjeet Kumar Shrivastava**, Chairman IETE Professional Activity Centre, Sarigam, presided over the forum. **Shri Naresh Kumar Garg** Chairman IETE Vadodara Centre & **Dr Upena Dalal** Chairman IETE Surat Sub Centre were also present during the event.



Dignitaries on the dais

The Apex Forum had detailed discussions on different aspects such as: 5G Vision, 5G characterization, licensed & unlicensed spectrum, 5G and its requirements, bandwidth management techniques, challenges due to upcoming services like Internet of Things, visible light communication, intelligent transportation system, etc.



Dignitaries with IETE Members at PAC, Sarigam

Various experts representing research, academia (like SVNIT Surat, Laxmi Institute of Technology, Sarigam, Representative of Global ICT Standardization Forum for India), GM, BSNL, Valsad, expressed their ideas on the theme. The recommendations have been compiled to include the proceedings, to be sent to relevant departments. The efforts made by all concerned and specifically **Shri Sanjeet Kumar Shrivastava**, Chairman IETE Professional Activity Centre, Sarigam to host the APEX Forum at Sarigam, was deeply appreciated and acknowledged. PAC Sarigam is thankful to **Shri Nandlal Dhandhukia**, **Smt Sita Singh**, **Shri Neeraj Paliwal**, **Shri Kannan S**, all Members of IETE PAC Sarigam, and special thanks is given to **Gajera Trust** for providing all the required support for the conduct of IETE APEX Forum.

➤ Internet of Things (IOT)

This Apex Forum (2nd for the year 2015-16) on **Internet of Things** was held on 21st Mar 2016, by the IETE Pune Centre at AISSM Society's Institute of Information Technology. **Dr Virendrakumar Bhavsar**, University of New Brunswick, Canada, graced the event as the Chief Guest. **Smt Smriti Dagur**, President, IETE; **Col Balraj Anand (Retd)**, Chairman, SD&ICC; **Shri Suresh Shinde**, Secretary, AISSM Society, Pune, shared the dais too. The resource persons were: Prof (Dr) Virendrakumar Bhavsar, C-DAC, Pune; Shri Umesh Gajendragakar, Sr Dir, PTC (India) Ltd, Pune; Dr (Ms) Yashodahara Haribhakta, Dept of CE, CoEP, Pune; Shri Santosh Ostwal, CEO, Ossian Agro-Automation Pvt. Ltd, Pune; Dr Bharat Chauhari, Sr Prof, MIT, Pune; Shri Girish Khilari, Vice Chairman, IEEE Pune Section and Prof (Dr) Vandana Rohokale, GISFI Representative at SKN Singhad Institute of Technology and Science, Lonavala. Smt Smriti Dagur presided over the function and emphasized on the importance of IoT and allied technologies in day-to-day life, while Col Balraj Anand (Retd) introduced the theme topic including Digital India and



View of the dais (L to R) Mrs M P Sardey, Principal M B Mane, Prof S K Khedkar, Dr V C Bhavsar, Mrs Smriti Dagur, Shri Suresh Shinde, Col B Anand (Retd)

PMKVY of Government of India. **Dr Bhavsar's** presentation was on IoT, Supercomputing, Big Data and Cyber-security, with application orientation in Meteorology, Astronomy and Environmental Science.

Shri Umesh Gajendragadkar, spoke on IoT platforms, both proprietary and open source, e.g Kaa (open source) and ThingWorx (proprietary) in particular. He judiciously explained the possible role of IETE in IoT domain, due to its exceptional reach across India, particularly through its ISF activities in colleges and universities. He visualized IETE to build courses atop some special platforms, and partner with IoT hardware and platform builders to train and build applications' engineers; thereby helping Make in India initiative of Government of India. He expected IETE to sponsor IoT competitions to engage student community. **Dr Yashodhara Haribhakta**, discussed Machine Learning and IoT in her presentation. She explained various examples of IoT in day-to-day life, like smart homes, smart lighting, smart parking, smart water management etc. Applications of IoT using Machine learning such as Precision Agriculture, Driverless Car, Internet of Medical Things (IoMT), Sensor Fusion, Smart Object Recognition, Air Quality monitoring using neural networks, were also presented by her. **Shri Santosh Ostwal**, the Tech Award Laureate 2011 in USA, started his presentation by a film played on his innovation, Nano Ganesh, M2M for water-tanks which proved to be a very frugal approach to control irrigation. He explained the various challenges in rural irrigation in India. In the post-lunch session, **Dr Bharat Chaudhary** spoke on Emerging Trends in Wireless Technology: Internet of Things. He discussed various standards for Wireless Sensor Networks (WSN) and emerging protocols for IoT such as IPv6 which will suffice huge addressing needs of WSN/IoT networks.



Audience at Pune listening with rapt attention

Shri Girish Khilari started his presentation with an Analysis of IoT in China - GAIA Smart Cities; to highlight

the initiatives to be taken by the Government, under various schemes and support thereto. Mobile operators and industries approach should be in consonance with Government initiatives, and standardization initiatives to streamline the efforts for IoT in smart cities. He emphasized the need on the part of Governments for automating interdisciplines (eg energy, logistics, transportation, manufacturing, security and surveillance) to increase the pace of urbanization and consumption. Similarly, TELCO and Industry Initiatives are required in developing network, platform and solutions for smart environment protection and medical and health care. The last presentation was given by **Dr Vandana Rohokale** on the topic Intelligent World With IoT and M2M Communication. She clearly brought out the recent developments in IoT and M2M communications and discussed at length, security and privacy issues in IoT and M2M.

All the speakers explained excellently how the IoT shall play a crucial role in the life of citizens and the nation. Each of the presentation was followed by questions/doubts raised by the audience to which appropriate answers were given by speakers. The event was graced by IETE Distinguished Fellow, eminent Governing Council Members, executive committee members of Pune Centre, Principals and Professors, and enthusiastic ISF students.

➤ My Village Smart Village

IETE Centres of Gujarat (Vadodara, Ahmedabad and Rajkot), Surat Sub-Centre and PAC at Sarigam together organized a one-day seminar & the 3rd Apex Forum (2015-16) on the theme “**My Village- Smart Village**” at village Dharmaj, Dist. Anand, Gujarat on 2nd April 2016, which also coincided with the silver jubilee year of IETE Vadodara Centre. This is for the first time that an IETE Apex Forum has been organized at a village and witnessed an overwhelming participation of



3rd Apex Forum (2015-16) on the theme “My Village- Smart Village” in progress.

more than 280 registered delegates covering IETE members across Gujarat as well as representatives from Govt bodies including leading citizens and Sarpanch of several villages of Anand district of Gujarat. Inaugural function of the event was graced by **Shri Dilipbhai Patel**, Member of Parliament, Anand constituency. Other dignitaries present on dais included **Shri Jayvirbhai Patel**, Sarpanch Dharmaj; **Shri Rajeshbhai Patel**, Organizing Secretary from Team Dharmaj; **Smt Smriti Dagur**, President IETE; **Maj Gen P K Jaggia, VSM (Retd)**, Secretary General IETE; **Col Balraj Anand (Retd)**, Chairman SD&ICC, IETE; **Shri Naresh Kumar Garg**, Chairman Vadodara Centre and **Dr KG Maradia**, Chairman IETE Ahmedabad Centre.

The programme was spread over four technical sessions. First technical session was on **Communication and Health care**, chaired by **Smt Neeta Shah**, Nominated Council Member, IETE, who emphasized the role of the communication technologies in facilitating the governance to next level in her talk and described the ecosystem for smart villages. The session speaker, **Shri Virendra Kumar**, from DECU, ISRO, shared his views on telemedicine and the role of SATCOM in providing basic health care services in difficult terrain and difficult to access locations. **Dr Kiran Parmar**, other session speaker, highlighted the merits and requirements of various available wired and wireless technologies and what villages can do to enhance their infrastructure. The next session was on **Energy Management**, chaired by **Dr RC Desai**. The expert speakers included: **Dr Pankaj Gupta**, who in his address covered different aspects related with “smart” applications, in terms of Grid for Electric or water, gas or transport. **Ms Pooja Kanade**, highlighted the various aspects for using solar energy and shared the tradeoff between cost and benefit of various solutions available. In the concluding remarks **Dr RC Desai**, shared his views on effective control of street lighting in managing electrical energy consumption smartly using smart technology available for the same.

The next session on **Waste Management** had **Shri Naresh Kumar Garg**, BARC, highlighting the useful applications of nuclear radiation in waste management process and how sludge presence in waste water can be improvised for further use in the agriculture. **Dr RV Vyas**, from Anand Agriculture University, also highlighted the use of microbes in improving the agriculture output and ensuring better soil fertility.

Last session on **Agriculture**, was chaired by **Dr KP Patel**, AAU, and the speakers were **Dr Rahul Prajapati** from Amul dairy and **Dr Hitesh Bhatt** from IRMA. Dr Rahul Prajapati

in his speech described the co-operative movement and how to enhance upliftment of villages by using the available technology, while Dr Hitesh Bhatt in his talk gave an insight of movement started by Dr Kurien and how it can help in boosting the agriculture sector.

After Technical sessions two demos were presented one on Internet of Things and Indigenous Solution for Smart Village by **Shri Madhukant Patel** and second through screening of a video for remote control of the agricultural pumps using smart mobile phones and technology offered by Shri Santosh Ostwal of Ossian Agro Automation Pvt Ltd, Pune technologies.



A section of the audience at Dharmaj village

The seminar also had a parallel track of the poster exhibition by the students of the engineering institutes of Gujarat. From the various submissions, 9 posters were selected for exhibit covering varied topics on water management, waste management, wearable antenna for smart village etc. Dr Chintan Bhatt and Dr Vijay Shah were the jury for selecting the best two posters and the results for the same were then announced which included appreciations for the authors of the Wearable Antenna from PIET, Vadodara and Waste management cycle from IPCO Institute Dharmaj.

Later in the valedictory function, **Shri Lalsinh Vadodiya**, MP, Rajyasabha, Gujarat was the Guest of Honour. In his address, he highlighted the usefulness of the seminar and appreciated IETE's efforts in contributing to the PM Vision of Smart cities and smart village apart from making very fruitful deliberations during the day on improving the agricultural outputs as well as use of solar energy so as to really make our village smart. Shri Tushar Kher, Hony Secretary IETE Vadodara, ended the technical event with delivering vote of thanks. Subsequently a visit to “GOCHAR”-the wasteland which has been developed into a green fertile farm with garden and providing fodder for the cattle of the Dharmaj village was also organized.

News from Centres

A variety of activities were conducted/organized by IETE Centres/Sub-Centres during the last quarter of the year. Even though we are taking every care and effort to publish all the reports that we receive from centres, some time due to certain constraints, we may not be able to publish all the reports. This should not deter the spirit of the Centres in contributing articles and news and we request them to continue to keep sending activity reports as ever.

AHMEDABAD

- The Centre celebrated its **Foundation Day** on 4th Oct 2015 in the presence of President IETE, **Smt Smriti Dagur**, the Chief Guest. On this occasion, a lecture by **Dr Kiran Parmar** on “**Research Trends in Wireless Communication**” was arranged that was attended by about fifty members.

- A special lecture was organized for ISTAR students & faculty members on “**Geospatial Technologies**” on 1st Dec, 2015. **Dr M C Gupta**, former Scientist, ISRO delivered a talk on “**GIS Based Coastal Zone Information System**” for participants of NRDMs Winter School on Geospatial Technologies. Dr P M Udani, Dr K G Mardia, Dr Himanshu Kapse were present amongst other members.

- A **technical visit** to Sardar Sarovar Dam – Kevadia Colony was arranged on 10th Jan 2016 for IETE Ahmedabad members with their family on self contributory basis. About 40 members joined this visit to the dam.

- All India Seminar on “**Internet of Things: Trends that affects Lives**” was organized by IE(I) Gujarat State Center during 22-23 Jan 2016 in association with NASSCOMM, DeitY, Center of Excellence in Internet of Things (CoE-IoT), supported by CSI, Ahmedabad Chapter, ACM Ahmedabad Chapter; IETE Ahmedabad Centre; Gujarat Innovation Society and Mobile Monday. The distinguished Guests for the event were: **Shri K S Vishwanathan**, Head IoT, NASSCOM-Chief Guest, **Smt Smriti Dagur**, President IETE and **Prof Bipin Mehta**, President CSI- the Guests of Honour. The welcome address was delivered by **Shri S J Desai**, Chairman, IE (I) GSC. Shri Jaimin Shah, Organizing Secretary, AIS-IoT-2016, introduced the associations supporting the seminar. Shri Bharat Patel, Convener AIS-IoT-2016, gave the overview of the seminar. Shri Vishwanathan in his inauguration speech highlighted the importance of own capabilities, skills, understanding and in making the devices intelligent. The talks of other speakers Shri Vijay Shah, Chairman, CSI Ahmedabad Chapter, Smt Smriti Dagur, President IETE, centered on IoT along with (ToT) Tweet of Things with their applications in

various areas. Shri Bipin Mehta, President CSI, gave statistics of IoT, business and statistical figures to motivate audience to work in these areas. More than 250 professionals, academicians and students participated. Shri Bhaumik Shah, Hony Secretary, ECM Ahmedabad, proposed vote of thanks.

- An expert lecture by **Dr Kiran R Parmar**, Ex Joint Dir, CTE, Gandhinagar, on “**5G Mobile Communication**” was arranged on Jan 31, 2016. The speaker highlighted the edges of 5G, the next major phase of mobile telecommunications standards beyond the current 4G/IMT-Advanced standards. He stated that 5G has speed beyond what the current 4G can offer. He said that it is being felt that 5G should be rolled out by 2020 to meet business and consumer demands. In addition to providing faster speeds, it is predicted that 5G networks will meet the needs of Internet of Things (network equipment in buildings or vehicles for web access) as well as broadcast-like services and lifeline communication in times of natural disaster.

- **IETE Students’ Day** was celebrated on 7th Feb 2016 with students, EC members and corporate members and also graced by President IETE, **Smt Smriti Dagur**, and **Prof (Dr) Y N Trivedi**, Nirma University. While Smt Dagur motivated the students through her speech, Dr Trivedi gave an expert talk on “**MIMO Wireless Communication**”, covering different aspects of MIMO together with its advantages in an easy way so that student members could understand it easily. He also encouraged student members for taking active part in the recent research going on in the field of MIMO communication. Mr Tara Prasad, AMIETE ET passout from the Centre, shared his experiences with the students on the occasion.

- **National Science Day** celebration was held at Govt Science College, Gandhinagar on 29th Feb 2016. **Dr Pragna A Vadher**, Principal, Govt Science College, Gandhinagar, in her address shared her views on background of the Science Day. The Centre Chairman, **Dr Kishor G Maradia**, talked about IETE activities and its benefit to the student’s community. IETE video was exhibited to generate interest among audience. A special lecture was presented by **Shri Chintan Bhatt** (Retd) Scientist, SAC

ISRO, on the theme of “Make in India: Science & Technology driven innovation”. He described the research aspects and research methodology for the science students. About 150 students and 15 faculty members attended the program.

- **International Women’s Day** was celebrated on 10th Mar 2016 at Govt Engineering College, Gandhinagar. A special lecture arranged on the occasion was by **Prof (Dr) Usha Mehta**, Nirma University on “**Women & ICT**”. About 65 girl students & ten female faculties attended the program. **Dr Parul Popat**, General Dept, GEC, Gandhinagar, proposed the vote of thanks.

- A lecture by **Shri Alpesh Mehta**, Director, Smart City Sustainable Technology International Pvt. Ltd.(OPC) on “**Smart City Home Zero Carbon Emission**” was arranged on 25th Apr 2016. In his address he described the Zero Carbon Emission technologies and their importance for the environment. He showed videos describing the significance and need for development of such products which leads to Zero Carbon Emission. The lecture was appreciated by everyone. Smt Smriti Dagur, President IETE, present during the event, facilitated the speaker with the memento.

ALLAHABAD

- The Centre organized two workshops, namely “**IT Applications**” and another on “**Advances in information Processing**” on 17th & 18th Nov 2015 respectively. Expert talks were delivered by **Dr Ashish Khare**, **Dr T J Siddiqui** and **Dr Rajneesh K Srivastava**.

- On the occasion of **IETE Students’ Day**, the Centre announced a skill development course on ‘**Basics and Advanced Railway Signaling Systems**’ to be started soon and organized a seminar on ‘**Advancement in Railway Signaling and Telecommunication Systems**’. **Shri Arun Saksena**, Gen



Release of Souvenir by the dignitaries during Students’ Day

Manager, North Central Railway (NCR) was the Chief Guest. **Er M K Singh**, Centre Chairman, welcoming the guests, explained the objectives of the skill development course and read out the message of IETE President for IETE Students’ Day. **Shri A K Mishra**, CSE, North Central Railways, **Shri Suraj Mal**, CST (Project) NCR, **Shri Alok Chaturvedi**, Ex CST (Project), CORE and **Shri Manish Vig**, Sr Advisor, Chandra Metals Ltd. commended the start first of its kind course - Railway Skill development course in Allahabad and appreciated the initiative taken by IETE and its industry partner, Chandra Metals Ltd. In his address **Er Arun Saksena**, said that the signaling and communication course would prove very beneficial for railway aspirants and this course had a wide scope owing to increasing area of railway freight corridor, metro rail and mono rail in the country. He made students understand through a presentation over the subject and answered to their queries. **Shri Saksena** assured the Centre that the railways will provide full support towards training of students at railway site. **Shri Arun Saksena**, **Er M K Singh**, Chairman IETE Allahabad Centre, **Prof K K Bhutani**, Director, UPTECH and Dist Fellow, IETE and **Prof S G Prakash**, Ex Dean, Faculty of Science, Univ of Allahabad and Ex Chairman, IETE Allahabad Centre, graced this occasion with their presence. They also released a souvenir on railway signaling course. Key speakers were:- **Er A K Mishra**, **Shri Suraj Mail**, **Shri Alok Chaturvedi**, **Shri D B Singh**, Director RDSO, Lucknow, **Shri J T Prabhakaran**, Chief Project Manager, Siemens India, New Delhi and **Shri Manish Vig**. **Shri Vig** highlighted the massive shortage of maintenance staff for signaling assets and pointed out that frequent signal failures occur due to the lack of skilled manpower for undertaking maintenance works in a safe timely fashion. He further shared the Vision and Mission of Chandra Metals Ltd. to conduct highly specialized and focused skill development courses focused on Railways industry in Allahabad in-line with the Skill Development Policy of the Government of India. Persons from railways, industry, academia, media persons and students IETE and Allahabad University attended the programme.

BANGALORE

A number of technical activities conducted by the Centre were:-

- The Centre celebrated **IETE Foundation Day** on 2nd Nov 2015. **Dr A T Kalghatgi**, Director (R&D) Bharat Electronics, the chief guest, delivered a lecture on “**Role of IETE in Digital**”.

- The Centre conducted prestigious **Chartered Accountant examinations** for the Institute of Chartered Accountant of India (ICAI) during 2-15 Nov 2015. ICAI allotted 250 candidates for IPC exam.
- One day workshop on “**Basic Electronics**” was organized in association with Sāmbhar Institute of Technology, on 7th Nov 2015. **Prof Ramchandran**, MSR Institute of Technology was the expert of the subject. **Prof H S Bhatia** inaugurated the workshop, which was meant for BE/B.Tech first year students.

BHOPAL

Shri Prasanth Gupta, Asstt Dir, NIELIT, GoI, New Delhi, visited IETE Bhopal Centre on 11th Dec 2015 and had detailed discussions with the Centre Chairperson **Gp Capt (Dr) K P Gowd**, & Hony Secy **Prof V S Choudhary**, on the possibility of conduct of ESDM courses at the Centre. The infrastructure viz. class rooms, laboratory, library and basic amenities available were shown to the NIELIT official and details on accreditation (Recognition) process, fee, faculty requirement, infrastructure requirement and examination & certification process were obtained. The centre is trying to mobilize students to get these courses started at the Centre.



CHANDIGARH

The Centre was celebrated the **IETE Students' Day** in association with ISF of **Chandigarh Engineering College, Landran, Mohali** on 13th Feb 2016. Dr Birajashis Pattnaik, Dir, Principal, Chandigarh Engg College, Mohali, delivered the welcome address. On this occasion, **Shri S K Angra**, Centre Chairman, spoke on role of professional society like IETE in student's career growth. **Dr Neelesh Kumar**, Hony Secretary of the Centre read out the message of Smt Smriti Dagur, President,



IETE Students' Day celebrated in association with ISF of Chandigarh Engineering College, Landran, Mohali

IETE on the occasion with the focus on skill development programs. Dr Surender Singh, EC Member of IETE & Senior Scientist, CSIR-CSIO, Chandigarh, conducted the general & technical quiz. Students from different engineering colleges participated in the program. The winner, runner up teams and consolation prizes were given. Ms Parminder Kaur, Assoc Prof, Chandigarh Engineering College presented the vote of thanks.

CHENNAI

- The Centre co-sponsored the **National Public Service Broadcasting Day** event on 12th Nov 2015 with BES Chennai chapter. **Justice P R Gokulakrishnan**, Former Chief Justice High Court of Gujarat, the Chief Guest, **Dr V Irai Anbu**, IAS, Principal Secretary/Commissioner, Dept of Economics & Statistics, the Guest of Honour, graced the occasion. About 175 members were present during this event.

- A technical lecture on “**Electro-Optic Applications in Defence**” by **Shri R P B Sundaram** Addl Gen Manager (Retd), BEL was arranged on 20th Jan 2016. The speaker gave an extensive talk on various design and manufacturing aspects of various opto – electric devices, with details on its applications in all the three defence service sectors. Around 30 candidates from engineering colleges, IETE corporate members were present. **Shri S Ramaswamy**, Centre Chairman & **Shri N Sridharan**, EC Member of the Centre, were also present.

- **IETE Students' Day** was organized on 11th Feb 2016 in which **Shri S Ramaswamy**, Centre Chairman, and **Dr Swarna Ravindra Babu**, EC Member, spoke on various aspects of Centre & projects that were being taken up by the IV year students respectively. A quiz contest was conducted on Basic Electronics, IT and general topics by Prof R Gayathri, Hony Secretary & Prof Sheeba Joice, EC Member. The winners of the quiz were: Veltech Multitech Engineering College (1st position) & Sri Sai Ram Engineering College & Saveetha Engineering College (2nd position). IETE students & students



Present Centre Chairman and Immdt Past Chairman, talking to the students on the day

from ISFs participated. **Col (Retd) K S Chakravarthi**, Immdt Past Chairman, spoke to the students on the need for developing practical knowledge and skills, apart from acquiring only the qualifications. He said that this would help them go up in their careers.

- One day workshop on “**Internet of Things (IOT)**” by **M/s Coovum Smart Systems & Services Pvt Ltd, Chennai**, was organized on 11th Mar 2016. About 63 students/faculties from eight engineering colleges participated and the certificates were distributed to all the participants.

DELHI

- The Centre organized a workshop on “**Solar Power & Optical Fiber**” on 3rd Jan 2016.
- The **Students’ Day** was celebrated with Mrs Meenakshi Vij, as the Chief Guest on 1st Feb 2016.
- The Centre has also been recognized by IGNOU as its regular Study Centre (38036) and this event was inaugurated by **Prof (Dr) A K Saini**, IETE Governing Council Member on 27th Feb 2016.

ERODE

- About eleven co-coordinators of ISFs attended the meeting organized by the Centre on 12th Dec 2015 at Kongu Engineering College(KEC). The welcome address was delivered by **Dr G Murugesan**, HoD/ECE & Centre’s Immdt Past Chairman. **Dr Arumugam**, CEO, Nandha Educational Institutions and Centre Chairman, highlighted the importance of IETE in the professional development of faculty and students. He also informed them about the IETE journals. The colleges were advised to start ISF at their premises. The meeting concluded with a vote of thanks by Prof (Dr) N Kasthuri, Dept of ECE & Centre’s Hony Secy.



A group of ISF Co-coordinators present during the meeting

- A workshop on “**Open hardware for Biomedical Signal Acquisition on Android Mobile Phone with Real Time Filtering & Signal Processing using MATLAB**” was organized by the Centre on 9th Mar 2016. The guest speaker, **Shri Abinav**, MD & CEO of Cardea Labs, conducted the morning session with an emphasis on the importance of PPG Signal and its analysis in the future. He also shed a light on Nadi pariksha and its scientific principles, and urged the participants to explore the Nadi Pariksha with a scientific approach. Their principles could be used to build a device (Yantra) that performs automatic diagnosis, he stressed. A lecture on basics of signal acquisition, signal processing and wavelets was also delivered. He then demonstrated the acquisition of ECG signal and displayed it on the Android based smart phone in real time. In the afternoon session the participants were trained hands on training. The session concluded with vote of thanks followed by constructive feedback from the participants.

- A national conference on “**VLSI, Embedded Systems, Signal Processing and Communication**” was organized on 2nd Apr 2016 at KEC. The Presidential address was delivered by **Dr S Arumugam**, Centre Chairman. **Shri V Muruganandham**, Jt GM, Airport Authority of India, Chennai, inaugurated the Conference and released the proceedings of the conference. In his plenary talk on “**Trends in Aviation Communication**”, he elaborated the process of flight tracking and landing system with the help of the communication used in the air traffic control. He mentioned about the various career opportunities available for the undergraduate students as India is set to become the third biggest market in the aviation industry by 2031. More than 25 papers were presented in the conference that were shortlisted out of 83 papers.



Release of the proceedings of the conference VESCOM 2016

GOA

- The Centre organized the **IETE Students' Day and Quiz & Poster Competition** for Student/ ISF members on 10th Feb 2016. **Shri C K Omprakash**, Dy Director General (Engineering), High Power Transmitter, AIR, Bambolim, graced the event as the Chief Guest. **Dr Hassanali Virani**, Centre Chairman delivered the welcome address. The message of the IETE President for the function was read out by Ms Sonia Kuwelkar, EC member. The Chief Guest in his address enlightened the students on the recent technologies and advancements in the field of electronics. A poster competition was organized on the theme "**Innovation in Electronics**". The team of Ms Sonali Parrikar, Ms Arpita Shirodkar and Ms Vinata Gonkar won this competition. The function was attended by a large number of enthusiastic students from ISF of Goa College of Engineering, Centre's EC members. The quiz competition winners Ms Saavi Gaunekar and Shri Shirish Khedekar, were given cash prizes.



IETE Students' Day celebrated at IETE Sub-Centre, Goa

- A two-day workshop on '**Signal Processing using MATLAB**' was conducted in the ET Dept, Goa College of Engineering on 12th-13th Mar, 2016. The workshop was coordinated by Ms Geeta Shet, Ms Palhavi Kerkar and Ms Purti Savardekar. The resource person for the workshop was **Shri Gautam Jotkar**, Exec, Siemens Ltd. A total of forty three students attended the workshop. Topics covered were- MATLAB Basics, Working with Matrices, Conditionals, Loops, m-files and File-IO, M – Functions and their Documentation, Signal Processing Using MATLAB and MATLAB Visualization. To ensure proper understanding, hands-on sessions were conducted after every session and students were asked to write programs for a series of given exercises related to the covered topic.

HYDERABAD

- A two-day course on "**Circuit Design, Programming (C/AVR) & Simulation using PROTEAUS**" was conducted during 22nd-23rd Aug 2015. The course was inaugurated by **Dr K**

Jaya Sankar, Centre Chairman while **Shri Ajay Arora**, CMD, Infinity Technologies, New Delhi was the resource person for this course. The valedictory function was held on 23rd Aug 2015 and certificates were distributed to 37 participants.

- **Teachers' Day** celebration was organized on 5th Sep 2015. **Dr K Lal Kishore**, former VC, JNTU, Ananthapuram, the Chief Guest, delivered a lecture on "**Professional Education System in Telangana and Andhra Pradesh**". **Dr K Jaya Sankar**, Centre Chairman presided over the function.

- The Centre's **Foundation Day** was celebrated on 11th Sep 2015. **Dr K Jaya Sankar**, Centre Chairman presided over the programme. ISF interaction was also organized on this occasion. Er Nuli Namassivaya, Hony Secretary, Shri K Seetha Ram Babu, Chairman, TPC and Dr M V Krishna Rao, Chairman, Membership Sub-Centres and ISF Activities Sub-Committee spoke during the programme. The programme was attended by the ISF coordinators, scientists, professors, students and members of the Centre.

- Another two-day course on "**Control Systems**", inaugurated by **Dr G Laxminarayana**, Hony Treasurer of the Centre, was conducted during 12th-13th Sep 2015. Er Nuli Namassivaya, MVSR Engg College, Hyderabad, was the resource person. The course was attended by 65 participants.

- The **Engineers' Day** was celebrated on 15th Sep 2015 at the Centre. During the function the photograph of **Bharatratna Sir Shri Mokshagundam Visvesvaraya** was garlanded. The Centre Chairman, **Dr K Jaya Sankar**, presided over. Er Nuli Namassivaya, Hony Secretary and Dr G Laxminarayana, Hony Treasurer were also present.

- A two-day workshop on "**Analog Communication**" was inaugurated by the Centre Chairman on 19th-20th Sep 2015. The certificates were distributed to the 42 participants on the valedictory function.

- **16th Shri U V Warlu Memorial Lecture** was organized on 3rd Oct 2015, wherein **Dr D Ranganadham**, Dir General (Engineering), Doordarshan Kendra, Hyderabad, delivered the memorial lecture on "**Emerging Trends in Broadcasting with Special Focus on Mobiles**". Scientists, Professors, Students and Members of the Centre were attended the function. The Centre Chairman presided over the function.

- A four-day short course on "**Electromagnetic Theory and Transmission Lines**" was organized during 3rd-4th & 10th-11th Oct 2015. **Dr M Lakshminarayana**, Principal, Kshatriya Engg

College, Nizamabad, was the Chief Guest for the valedictory function held on 11th Oct 2015 and he distributed the certificates to the participants(65) after completion of the course.

- “**Role of IETE in Digital India**” was the theme on which IETE **62nd Foundation Day**, celebrated on 2nd Nov 2015. The programme was graced by **Y V Subba Rao**, Head, Corporate Business Development Group, ECIL, Hyderabad, the Chief Guest. **Shri P N A P Rao** (F-135689), **Prof K Kishan Rao** (F-134040) and **Prof A D Sarma** (F-032589) were felicitated on this occasion.

- Yet another two-day workshop on “**Fascinating World of Coding Theory: Heart & Soul of Wireless Communication**” was conducted by Women Empowerment in Engineering Committee during 7th-8th Nov 2015. **Prof (Dr) N H Shoba**, HoD/ECE, Methodist College of Engg & Tech, Hyderabad inaugurated the workshop and delivered keynote address. **Dr K S Nayanathara**, Principal, CVR College of Engineering, Ibrahimpatnam, Hyderabad, was the Chief Guest for the valedictory function. The chief guest distributed the certificates to the participants.

- **13th Prof K K Nair Memorial Lecture**, was delivered on 5th Dec 2015 by **Dr Sanjiv Kumar**, Scientific Officer-H, Head, Surface & Profile Measurement Section, NCCCM, BARC, Hyderabad, on “**Photovoltaics: Current Status and Future Developments**”. **Dr K Jaya Sankar**, Centre Chairman presided over the function that was attended by the scientists, professors, students and members of the Centre.

- The 6th **IETE Student’s Day** celebrations were inaugurated by the Centre Chairman **Dr K Jaya Sankar** and the Chief Guest **Dr V Gunasekhar Reddy**, Governing Council Member and Vice-President, IETE, on 7th Feb 2016 amidst degree/diploma students, ISF and Alumni, numbering around 66 members. A technical quiz and a crossword puzzle were organized for them.



IETE Students' Day at IETE Hyderabad Centre

The winners were given cash prizes and others the certificates of participation. **Dr M V Krishna Rao**, **Prof N Srinivasa Rao**, **Prof D Linga Reddy**, **Shri P Viswanatham**, acted as judges and helped the Centre in conducting the activities of the day.

JABALPUR

The **Students' Day** was celebrated in the august presence of **Er Aashwin Shukla**, DY STE/WCR Rly (Signalling & Telecommunication) Jabalpur, the Chief Guest and **Er G C Manna**, CGM, (Retd) T&D Circle Jabalpur, the Guest of Honour for the occasion. The message from President IETE was readout by the Chairman **Er N Vishwakarma**, IETE Sub Centre Jabalpur. The address of the Chief Guest centered around talked on Signalling & Telecommunication system of Indian railways, while other two addresses were related to Smart City using ICT systems. A quiz competition for students was also arranged. In the entertainment programme flute playing and songs were sung by students. The certificates of merit were distributed to the teams. The program was conducted by **Dr Shailja Shukla**, Hony Treasurer and vote of thanks was proposed by **Dr Mukta Bhatele**, Hony Secretary IETE Jabalpur Sub-Centre.

JAIPUR

- The **IETE Zonal Seminar-North** on “**ICT in Healthcare**” was organized on 5th Mar 2016 in association with Dept of ECE, MNIT Jaipur, with an objective of bringing together the students, faculty and researcher community to deliberate upon the trends and progress in the area of emerging technologies in healthcare; to facilitate interaction amongst the Indian fraternity and the national level speakers in this field; to enhance the state-of-the-art research collaborations amongst various groups; and finally to help build human resources in this emerging area. It was attended by dignitaries from various national universities, colleges, IETE members and from BSNL. The formal welcome speech was delivered by **Shri Gunjan**



IETE Zonal Seminar-North on “ICT in Healthcare” in progress

Saxena, Centre Chairman. The chief guest, **Smt Smriti Dagur**, President IETE, talked on the importance of healthcare and the impact of the technology that is facilitating human life. **Prof P Prabhakar**, Zonal Coordinator (North Zone), in his address shared his views on ICT in healthcare. **Maj Gen P K Jaggia**, VSM (Retd), Secretary General, IETE HQ, also talked on the theme topic and the importance of IETE membership among the gathering. It was followed by address of **Prof V Sinha**, Academic Chairperson, E&ICT Academy, MNIT Jaipur. The vote of thanks was proposed by **Dr Seema Verma**, Convener, IETE Zonal Seminar. The lectures in the technical sessions were on “**ICT in Healthcare**” by **Dr Vandana Gupta**, SMO, MNIT Jaipur & **Prof V Sinha**, Academic Chairperson. About 57 technical papers were presented in three parallel sessions by researchers and students projecting ICT in Healthcare. Research papers were related to healthcare monitoring, RFID and sensors based Body Area Network (BAN), Wearable antennas for Body Area Network, Signal and Image Processing in healthcare etc. The conference saw the participation of around 100 delegates, including students and faculty members of MNIT Jaipur, Manipal University Jaipur, Banasthali University Tonk, and various other universities and colleges from all over Rajasthan state.

• The **IETE Student Forum Congress (2016)– North** on the theme “**Research & Innovation in Healthcare**” was organized on 6th Mar 2016. All ISF colleges of the north zone were invited for the paper presentation competition. About 10 teams from various ISF colleges gave their presentations. The certificates and consolation prizes were distributed to all the participants. The best presentations were by: **Abhishek Godbole & Sourabh Sahu**, MNIT, Jaipur (1st prize); **Gitanjali Srivastava**, Banasthali University (2nd prize); **Shivangi Sharma**, Manipal University Jaipur, **Shubhangi Sharma** and **Abhinav Bhardwaj** (3rd prize). It was followed by the addresses from **Smt Smriti Dagur**, President IETE, **Prof (Wg Cdr) P**



Dignitaries felicitating the winners of the best ISF student paper presentation

Prabhakar (Retd), Zonal Co-ordinator (North) and **Maj Gen P K Jaggia**, VSM (Retd), Secretary General, IETE HQ

KANPUR

• The Centre celebrated the **IETE Students’ Day** on 7th Feb 2016 at Indus Institute of Technology & Management (IITM), Kanpur. **Dr P K Manna**, Dir, IITM, graced the occasion with his presence as the Chief Guest. The participation of students, guests in the event was good. The welcome address was by Shri Arshi Ahmad, IITM. **Dr Yaduvir Singh** and **Dr Sanjiv Kumar**, EE, HBTI, Kanpur, delivered their addresses on “**Genetic Algorithms and its Application**” and “**Industrial Automation**” respectively. Vote of thanks was given by Dr Sanjay K Sharma, Hon’y Secretary, IETE Kanpur Centre.

• The **International Women’s Day** was celebrated jointly with Dept of EE, Harcourt Butler Technological Institute(HBTI), Kanpur with great enthusiasm on 8th Mar 2016. About 90 members were present for the programme. **Prof (Dr) Yaduvir Singh**, Dean, HBTI, the Chief Guest; the keynote speakers; IETE members; faculties of HBTI & students were all greeted by the Centre Chairperson, **Er U S Yadav**. The speakers included: **Dr Sonia Agrawal**, Dept of Humanities, HBTI, Kanpur and **Dr Niyati Padhi**, Dept of Economics, IET at CSJM University, Kanpur. The addresses of the guests highlighted various problems of Indian women like female foeticide, malnutrition, education, reservation, women security, women harassment at work place, gender discrimination, women honour, right to property, women role in decision making etc. Practical solutions were given by the speakers.



IETE Kanpur Centre celebrating International Women’s Day

KOCHI

• **ICCEECON 2K16-** an International Conference on “**Technical Challenges in Instrumentation, Computer Science, Civil, Mechanical, Electronics and Electrical**



Dignitaries lighting the inaugural lamp

Engineering” was conducted by the Christ Knowledge City, in order to provide a forum for the industrial and academic worlds and to share the best practices in the various fields of engineering and technology. The ICCECON 2k16 was inaugurated by **Dr M C Dileep Kumar**, Vice Chancellor, Sanskrit University, Kalady on 5th Mar 2016. **Dr Deleep R Nair**, AP/EEE, IIT Madras, kickstarted on 5th Mar 2016. **Dr M V Rajesh**, Hony Secretary of the Centre & Principal, ISSAT, **Prof (Dr) Shobhana N V**, RIT and Dr Atmaram P, Principal, MES, Kunnukara added grace to the conference by their esteemed presence. The proceedings of ICCECON 2k16 was released. The inaugural function was followed by a key note lecture on ‘**Microelectronics and MEMS**’ by **Dr Deleep R Nair**. ICCECON 2k16 was abounded with technical presentations on various related themes. About 128 papers were presented in different technical sessions from the broad themes of electronics, instrumentation, electrical, mechanical, civil engineering, computer science, computer applications and others. The conference provided a vibrant platform for sharing of knowledge & information among researchers, academicians and people from the industry & various fields of engineering technology.

LUCKNOW



IETE Students’ Day at Lucknow Centre

IETE Students’ Day was jointly organized by IETE Lucknow Centre and Bansal Institute of Engineering & Technology (BIET), Lucknow, on 15th Feb 2016, on the theme “**Digital India**”. About 28 teams from various colleges like BBD, Ambalika, RRIMT, Goel IMT, and Amity University, including Bansal Institute, participated in the technical presentations & poster making competitions. The event was inaugurated by **Shri B B Lal**, Past Chairman of the Centre; Dr V K Singh, Hony Secretary; Shri Vinod Kumar, Hony Treasurer of the Centre; Shri S C Mishra, Past Hony Secretary; Shri O P Singh; Shri Ganga Ram Mishra; Shri G S Agrawal, Chairman Bansal Educational Trust and Dr S K Agrawal, Dir, Bansal Institute of Engineering & Technology. The competition of technical presentation and poster making was judged by the eminent technical personalities. In this competition, **Manas Chiranjivi & Sadia** from Bansal Institute were selected as the best technical presenters among the 28 participants. **Harshit & Sparsh** from Amity University and **Atul & Vaibhav** from Bansal Institute were awarded second and third position respectively. **Jainab Siddhiqui** from Bansal Institute was selected for the best poster among 12 participants in the competition and **Rashmin Mishra** from Bansal Institute and **Aayush Agrahari** from Bansal Institute were awarded second and third position respectively for Poster Making Competition. The event concluded with distribution of prizes to winners. Shri B B Lal interacted with & enlightened the students. Finally, the vote of thanks was delivered by Dr S K Agrawal, Director, BIET, Lucknow.

MANKAPUR

Under the PMKVY programme IETE Mankapur Centre completed the training of regional students under the **Tower Technician Course** (Telecom Sector Skill Council) in its first batch. A total of 19 students successfully passed the assessment test out of 21 students on 9th Mar 2016. These students who have passed the final assessment shown along side, are waiting for the NSDC certificates.



MUMBAI

- The Centre celebrated its 7th anniversary on 14th Sep 2015. **Shri N K Karnani** Vice Chairman & TPC Convener of the Centre, welcomed the guests **Prof (Dr) J W Bakal**, West Zone coordinator and **Shri S R Aggarwal**, former Secretary General, IETE HQ with bouquets. **Prof (Dr) Bakal** in his address told about the progress made by the centre in last seven

years after acquiring its own premises & also about its future plans, whereas, **Shri Sumit Gaur**, Scientific Officer, delivered a technical lecture on “**Network Security**”. He educated the gathering of vast advantages of Security in Network.

- The Universal College of Engineering, Mumbai, organized the **2nd National Level Paper Presentation** in association with the Centre on 6th Oct 2015. It was a mammoth event that was galvanized and witnessed a huge participation of 490 papers across India.

- A one-day workshop on “**Mini Projects on Breadboard and Continuity Tester on PCB**” was arranged on 10th Oct 2015 at Shah & Anchor Kutchhi Polytechnic (SAKP), Chembur, Mumbai.

- **62nd IETE Foundation Day** was celebrated on 2nd Nov 2015 with **Shri Akshat Kakkar**, Scientific Officer, Computer Division, BARC, Mumbai, who graced the occasion as the Chief Guest. The invited speakers included: **Prof (Dr) J W Bakal**, West Zone Coordinator, **Prof (Dr) K T V Reddy**, Chairman, TPPC and **(Dr) Sushil S Thale**, Centre Chairman. **Shri N K Karnani**, after the welcome address delivered an informative talk on “**Role IETE in Digital India**”. He briefed the audience about secure indigenized India as Digital India and also discussed few case studies. Prof (Dr) J W Bakal, Prof (Dr) K T V Reddy, Dr Sushil S Thale, Prof (Mrs) Smita Lonkar, were the other speakers for the occasion.

- A technical lecture with IEEE- MTT-S Bombay Chapter, on “**Business Opportunities in Telecom Passive Infrastructures**” by **Shri Sandeep Gupte**, Self Consultant an US Energy Company, was held on 22nd Dec 2015 at MTNL, Mumbai.

- On 28th Jan 2016 the Center organized **5th Dr P B Parikh Endowment Lecture** at Rajiv Gandhi Institute of Technology

(RGIT), Andheri (W), Mumbai. On behalf of IETE Mumbai, Ms Suvarna Bhise welcomed the Chief Guest and the speaker of the lecture **Shri Pravin Punj**, Exec Dir, MTNL, Mumbai. **Dr P B Parikh**, DF IETE, **Dr J W Bakal**, West Zone Coordinator, **Dr K T V Reddy**, Chairman TPPC, **Dr Sushil Thale**, Centre Chairman and **Dr Udhav Bhosle**, Centre’s Vice Chairman & Principal RGIT were present on the dais. Shri Pravin Punj, in his talk on “**Present Telecom Scenario in India**”, briefed on the history of Indian Telecom with features of each mobile generation and explained the path for Digital India. He was felicitated by Dr Parikh and in turn Dr Parikh was felicitated by Dr Udhav Bhosle. About 90 members of IETE witnessed the lecture.

- The inauguration function of **Mega Event Oscillation 2016** was held on 12th Feb 2016 at Don Bosco, Kurla. It was the beginning of a two-month mega event, under the banner of “**Oscillations- 2016**”, in which around 16 colleges conducted a number of activities for the students at an inter collegiate level. ♦ Don Bosco Institute of Technology, Kurla, arranged for a guest lecture on “**Fibre Optic Sensors and Applications**” on Feb 12, 2016; ♦ P Vasantdada Patil Pratisthan CoE, conducted “**Project Exhibition and Technical Paper Presentation**” on Feb 17, 2016; ♦ Shah & Anchor Kuttchi Polytechnic, conducted a one- day workshop on “**PCB designing using Eagle and Xpress PCB**” on Feb 20, 2016; ♦ Thadomal Shahani Engg College, (TSEC), Bandra, held “**A Coding Competition**” on Feb 27-28, 2016; ♦ St Xavier’s Technical Institute, Mahim, held Poster /Project Competition on Mar 9-11, 2016; ♦ K J Somiya Institute of Technology, Sion, arranged a Technical Paper Presentation on Mar 11, 2016; ♦ Universal CoE, Vasai, held a National Level Project Exhibition cum poster presentation on Mar 11, 2016; ♦ Shivajirao S Jondhale CoE & Technology, Asangaon, organized a Poster Presentation on Mar 11, 2016 and so did Shivajirao S Jondhale Polytechnic, Asangaon ♦ Vidhya Vardhini CoE & Tecnology (VCET), Vasai, organized a Paper Presentation on Mar 18, 2016; ♦ Shivajirao S Jondhale CoE Dobivli, held a technical event on Mar 19, 2016; ♦ St Francis institute of Technology, Borivli, organized an Industrial visit to Train Management System Railway, on Mar 19, 2016; ♦ K J Somiya Engg College, Vidyavihar, organized a Tech-Event - Walk in the Dark , Poster Presentation Competition, Hangout Zone on Mar 19, 2016; ♦ Rajiv Gandhi Institute of Technology, Andheri, held a Matlab workshop on Mar 17, 2016 & In-design workshop on Mar 28, 2016; ♦ Mukesh Patel School of Technology Management Eng. Vile Parle, held “**Ulectro 2016- Intercollege Project Competition**” on Mar 31, 2016; and Shah & Anchor Kuttchi Engg College, organized a Technical Event on Mar 31, 2016.



Dignitaries on the dais during Dr P B Parikh Endowment Lecture

NAGPUR

- The Centre organized a **quiz competition** on “**Internet of Things (IOT)**” for ISF members as well as for other diploma colleges & Engg colleges. The quiz was conducted online through a web link on 14th Sep 2015 in which more than 1469 students from seventeen ISF colleges participated. **Shri Sandeep Shirkhedkar**, Dir, Imagis India Pvt Ltd, was the Chief Guest on this occasion. Dr B P Joshi, Vice Chairman, Er A R Sawatkar, Hony Treasure of the Centre were also present. Cash prizes of Rs 1500/- & Rs 1000/- for 1st & 2nd places were given to the winners respectively. Vote of thanks was proposed by Prof Arpit Yadav, ISF Co-ordinator, S B Jain College of Engineering, Nagpur. **Prof Suresh Rangankar**, ISF Coordinator SVP CET, Nagpur, coordinated this online quiz activity through a web portal.

- The Centre celebrated **IETE Foundation Day** on “**Role of IETE In Digital India**” on 2nd Nov 2015. **Shri A G Joshi**, Dir, Ascent Academy & Past Chairman of the Centre was the Chief Guest and spoke on the Role of IETE in Digital India. **Shri K Narayanan**, Centre Chairman, presided over the function. Dr C G Dethe, Hony Secretary, read out the President’s message meant for the occasion. On this occasion senior member of IETE **Shri Kuhikar** (F-010938) and **Shri A G Joshi** (F-085499) were felicitated for their outstanding contribution in the field of telecommunications. The function was attended by EC members, ISF coordinators, members and students.



Members being felicitated on IETE Foundation Day

Late Dr P K Kapre Memorial Oration in progress

- As per the tradition, IETE Nagpur Centre held an oration program in the memory of reputed scientist/academician **Late Dr PK Kapre**, & Past President IETE on 02 April 2016. **Dr Ajay Deshpande**, Asso. Scientist, MRSAC, Nagpur was the keynote speaker for this lecture this year and he spoke on “**Indian GPS System**”. **Dr C S Thorat**, Principal, Government Polytechnic, Nagpur was invited as the Chief Guest who elaborated on the importance of such technical lectures and its significance for

polytechnic students. **Shri K Narayanan**, Centre Chairman, presided over the function. Dr C G Dethe, Hony Secretary gave the preface of the function and made the audience aware of the great contribution by Dr P K Kapre. **Mrs Madhuri Bawane**, (Prof) Govt Poly, Nagpur, introduced the speaker of the day while vote of thanks was proposed by Er A R Sawatkar, Hony Treasurer of the Centre.

NASHIK

- IETE Students' Day** was celebrated on Feb 01, 2016, which was coincidentally also the foundation Day for the ISF Sandip Foundation, Nashik. A one-day workshop was organized on “**Intellectual Property Rights – IPR & Patent Filing**” by **Dr Om Prakash G Kulkarni**, an eminent Scientist & Innovator and the Chief Guest for the occasion. In his address he shed light on the importance of IPR, patent filing in the areas of innovativeness and new product design, development in the field of engineering. He deliberated on the importance of copyright, trademarks and protecting the intellectual properties. Dr Kulkarni also shared his vast and valuable experience with the students. In his address **Dr M D Kokate**, Centre Chairman, rightly mentioned the significance of the ‘Digital India’, ‘Make in India’ initiatives’ in today’s scenario; and its relevance in this era, where ‘start-ups’ are gaining momentum; and everyday a new idea or product is launched in the market. Particularly electronics & telecommunication is the most happening field, where products become obsolete at very fast pace and new ideas and products replace them. He added that IETE understands the necessity of organizing such workshops for the benefit of the students. Space Educator & Hony Secretary of the Centre, **Mrs Apurva Jakhadi**, **Prof Prashant Patil**, Principal, Sandip Polytechnic & Chairman CSI, and **Dr S T Gandhe**, were other eminent personalities present on the occasion. This workshop was attended by about 220 engineering students from various colleges of Nashik. The educators and members of IETE fraternity – Dr



Dr Omprakash Kulkarni sharing his views during IETE Students' Day

D M Chandwadkar, Dr Gandhe, Dr Morade, Dr Ugale, Prof Vidya Khapli, Dr Phade, Dr Khedkar, Prof Deepak Patil and Prof Sanjeev Shukla were felicitated in the function for their contribution in the field of electronics & telecommunication Engg, along with some student toppers.

- **Mrs Apurva Jakhadi**, Hony Secretary, Nashik Sub-Centre, represented IETE during a panel discussion held at Nashik Engineering Cluster – NEC, MIDC Ambad, Nashik on the occasion of **International Women's Day** on the theme 'She talks, She dreams' on 8th Mar 2016. **Mrs Meera Shankar**, IFS, Former India's Ambassador to USA & Germany also shared the dais.

NOIDA

- A presentation cum lecture was organized at the Centre on "**Radio Trunking**" by **Shri R S Verma**, FIETE on 27th Dec 2015, and was attended by few senior members of IETE, namely **Mrs Neeru Mohan Biswas**, **Col N Shreevastawa**, **Col S P Singh**, **Shri B P Shreevastava**, **Wg Cdr N C Sharma**, **Col Mahesh Khera**. Elucidating the topic the speaker said that Radio Trunking System (RTS) is automatic switching of channels so that all the radio users in the network may access any channel. He explained the voice quality of RTS, is much better as compared to the conventional VHF / UHF Communication System. He said that in conventional mode of VHF/UHF communication, channel is always ready for use whereas in Radio Trunking System, channel is assigned automatically as and when it is required by the user. Trunking System handles more users per channel than the conventional VHF/UHF Communication System. He explained many other trunking features along with its applications.

- **Lt Gen A K S Chandele**, PVSM, AVSM (Retd), Distinguished Fellow IETE and the present Hony Treasurer of IETE, delivered a lecture on "**Applications of GEO Spatial**



Lt Gen A K S Chandele, PVSM, AVSM (Retd), DF IETE delivering the lecture on "Applications of GEO Spatial Technologies"

Technologies" at the Centre on 13 Mar 2016. He introduced the subject by explaining the concepts of Geographical Information Systems, Global Positioning System and Remote Sensing and other technological developments that have taken place in the last decade and a half in these fields. He stated that these technologies have numerous applications in every field of human activity, be it agriculture, energy, infrastructure, utilities, navigation, disaster management, defense, internal security or public safety. Covering navigation, he explained the functioning of GPS Aided Geo Augmented Navigation System (GAGAN) and Satellite based Automatic Identification System (S-AIS). He described the Indian Regional Navigational Satellite System (IRNSS) and the progress of the project made so far. He said that agriculture sector could benefit tremendously by using applications such as precision farming, crop, soil and moisture monitoring. In Infrastructure, the latest concepts and advantages of adopting Building Information Modeling (BIM) was explained, which are relevant for India's Smart City initiatives. He further added how Disaster Management efforts too have considerably improved by using Geospatial technologies for planning emergency response and relief. Defense and Internal Security operations today depend a lot on Geospatial technologies for planning, gathering intelligence, targeting and logistics. Concluding, he gave the statistics regarding the adoption of these technologies, particularly in India, indicating an annual growth rate of 12-15%, with the current market at around \$4 Bn. The lecture was interesting and informative.

PALAKKAD

- The first batch of 30 students for **Field Technician in Computer Peripherals (FTCP)** Course under PMKVY program was launched on 21st Jan 2016 in association with M/S UTL Technologies, Bangalore. **Ms Prameela Sasidharan**, Municipal Chairperson inaugurated the class. **Shri C K Haridas**, Founder Chairman of the Centre, **Prof C Pradip**,



1st Batch of PMKVY program - FTCP Course with M/s UTL Technologies

present Centre Chairman, **Shri Arvind Govindaraj**, Regional Manager, UTL & **Prof P Nandakumar**, Immdt Past Chairman were all present on the occasion.

- **IETE Students' Day** was celebrated by organizing competitions in Quiz, Essay Writing & cultural events on 1st Feb 2016. More than 40 students participated in the celebrations. Prizes were distributed to the winners of the competitions.

- **Engineering Students Convention (ESC-2016)** that aimed at improving the deteriorating standards of engineering students was inaugurated by **Prof Pratap G Nair**, Dean KMCT College of Engineering on 6th Feb 2016. Addressing the students, he said that the students should cultivate the habit of focusing on the events happening in & around them for their research as engineering subjects. **Prof (Dr) T Sudha**, presented her papers on the subjects to more than 100 participants from various engg colleges in Palakkad. Competitions were held in software coding, code debugging, ICT Quiz and presentation of papers. **Shri C Pradip**, Centre Chairman, presiding over the function, emphasized on the need of active participation by the students in such activities. **Shri C K Haridas**, founder Chairman of the Centre pointed out the necessity of timely additions, deletions and modifications of technical knowledge in upgrading the same. The winners of the competitions were presented with certificates and prizes.

- The PMKVY that started in Feb 2016 with 49 students in two batches for FTCP, successfully trained 39 students out of 49 students. These students who have passed (approx 80%) the final assessment, are waiting for the NSDC certificates and the cash rewards.



Students with course co-ordinators and trainers

PATNA

The **IETE Students' Day** 2016 was organized on 1st Feb 2016 by the Centre. **Dr Arun Kumar**, Past Chairman of the Patna Centre, welcoming the guests read out the message from Mrs Smriti Dagur, President, IETE, for the occasion. The guests present were: **Er Manoj Kumar**, **Shri Alok Kumar**, **Ms Ritu Kaundilya** and **Shri Shyam Kumar**. During this event Er Mukesh Muni Raj, Hony Treasurer and students from the Centre, discussed their prospective career plans. Vote of thank was proposed by Dr Amitabh Kumar.



IETE Students' Day celebrated at Patna Centre

PUNE

The Centre celebrated the **Students' Day** with the students of AMIETE / DiPIETE and ISFs in and around Pune on 1st Feb 2016. The programme started with Ganesh Vandana which was sung by Ms Kasturi Gosavi from Cummins College of Engg for Women, Pune. Stating the importance of the day **Prof S K Khedkar**, Centre Chairman said that it is that platform for students where they can exhibit their latent talent and spirit of self-reliance. He then read out the motivating message by **Smt Smriti Dagur**, President IETE for the students. **Shri R K Bharucha**, the Chief Guest, in his address advised the students to



EC Members with students during IETE Students' Day

work hard and keep up the self-esteem, which ultimately would help them later in their life. He said that the students should aim at all-round development, and not in academics alone, but also in cultural and sports fields. The cultural programme that followed was appreciated by one and all. The flute recital by Shri Shende, a AMIETE student was very melodious. The pick of the evening was the street play presented by the ISF student members of K J College of Engg and Mgmt Research, Pune, that depicted the plight of the farmers & village folk, due to the famine. The Trinity Engineering College students enthralled the audience by their comedy performances. AISSMS' IoIT ISF girl students presented the melodious old Hindi film songs, and the meaningful Marathi songs.

RAJKOT

IETE Students' Day was observed on 7th Feb 2016 with the arrangement of general & technical quiz competition. Approx 55 students from different universities, colleges participated. **Ms Pintukumari Bera**, AP/CS, Christ College, Rajkot, handled the quiz competition through multimedia projector and conducted the programme in five phases. **Shri V M Patwari**, **Prof R D Mehta**, Hony Secretary, **Dr Atul Gonsai**, Hony Treasurer, **Shri S M Suchdey**, EC member, **Shri Pareshbhai Gosai**, were the eminent persons present on the day. The career opportunities for the students in group discussion were also held.



IETE Students' Day celebrated at IETE Rajkot Centre

SIVAKASI

• The Centre organized the **4th Techno Blaze** (2015-16) with a lecture cum group discussion on 11th Jan 2016, in the Advanced Communication Lab of ECE Dept, Mepco Schlenk Engineering College(MSEC), Sivakasi. **Dr D Selvathi**, Centre Chairperson, greeted all through her welcome address. The

speaker of the day, **Dr I Kathir**, Associate Prof/EEE,MSEC, Sivakasi, delivered a lecture on '**Electromagnetic Field based Fault detection method of motors using FEM technique**' and initiated group discussion. It was attended by about 40 corporate members. The presentation started with a prelude of basics required for the discussion of the topic. The Speaker discussed the preprocessing involved, the nuances in setting parameters in the software and the post processing where one is able to analyze the system under inspection with different parameters. He started with Laplace's equation, Poisson's equation and Maxwell's equation and then moved on with measurement of potential which yields estimation of other parameters like flux, field, energy and energy density etc. He took a case of Induction motor with faulty stator and explained the analysis of the case with the field distribution in the air gap. He also explained on how to use the ANSYS software for the fault detection problems, how to provide excitation, how to set the boundary, mesh conditions and many other things.



4th Techno Blaze in progress

• The **Fifth Techno Blaze**, Lecture-cum-Group discussion was organized on 1st Apr 2016 with **Dr M K Marichelvam**, AP/ME, MSEC, Sivakasi, on '**Advanced Optimization Techniques for Engineering problems**'. The presentation was streamlined with introduction to optimization techniques, their basic formulation, types, real-life examples and illustration with numerical examples. The resource person explained about three optimization techniques namely, BAT algorithm, Firefly algorithm and Cuckoo search algorithm. He explained the basics of the biologically inspired algorithms and the derivation of specifications for the problem at hand. In a discussion with the participants, the resource person shared his expertise on working with hybridization of optimization techniques and his experience of converting a continuous optimization problem into a discrete optimization problem.

SURAT

The Sub-Centre celebrated **IETE Students' Day** on 13th Feb 2016 as the Sub-Centre was pre occupied with a NBA accreditation visit during 1st week of February. **Dr (Mrs) U D Dalal**, Centre Chairperson, in her address explained the objective and significance of the IETE to students. She motivated them to become the student member of the institution and read out the message by President IETE given for the day. The Centre also launched an event "Hertz" which was to be conducted from 19th-20th Mar 2016 at ISF Surat. To publicize and create awareness about the event, a pre-Hertz session was conducted on 13 Feb 2016. About 80 students attended the programme and showed their interest for the event.

THIRUVANANTHAPURAM

An International conference on **Robotics and Automation** was organized by the Centre during 19th - 21st February 2016 at Mascot Hotel, Trivandrum. The conference was presided over by **Dr S Arumugaperumal**, Centre Chairman. The Chief Guest for the occasion was **Dr Kuncheria P Isaac**, Vice-Chancellor, APJ Abdul Kalam Technological University, Kerala. The welcome address was by Shri K V Balasubramanian, Hony Secy of the Centre. Shri S Girishkumar, was the General Convener for the conference. Dr K C Raveendranathan informed about the overwhelming response with regards to call for papers that was received. He informed that finally 33 papers were recommended for the publication in conference proceedings with ISBN number. The Chief Guest in his speech emphasized the need for study & research in Robotics, due to its importance and acceptability in present and in future. He also pointed that Biomimics and Biobionics were the emerging research areas where young minds should concentrate. **Shri C K Haridas**, founder Chairman IETE Palakkad Centre & **Brig M K**

Sasidharan (Retd), Past Chairman, IETE Trivandrum Centre, also addressed the gathering. The chief guest released the conference proceedings, while technical paper presentation was held in the afternoon session. Dr N Vijaya Kumar & Dr T Muthupandian were the session chairs in which 18 papers were presented.

Next day the first session was chaired by **Dr S Achuthsankar**, Head, Bio-informatics Dept of Univ of Kerala, in which he focused on Robotics biofuture. Informing about his team's research on cell correction techniques, he gave a marvelous comparison of man and machine through his lecture. In the 2nd session the technical paper presentation was made by delegates. A presentation on a platform based approach to bionics was deliberated by **Shri Sanju Mathew**, which was well appreciated. **Dr Vivekanandan** in the final session deliberated on affordable tools on Robotic research.

In the plenary session next day, **Dr Prahalad Vadakkeppats** delivered the first presentation. The 2nd presentation was by **Dr Krishnamoorthy Baskaran** on Internet of Things. **Dr David Asheervadam** presented a lecture on IoT and Big data. After lunch the final session was taken on by **Dr Gokul Krishna**, Joint Director STPI, Chennai. **Brig M K Sasidharan (Retd)** presented the concluding notes.

VADODARA

- A technical lecture on "Internet of Things" by **Dr Vijay K Shah**, R&D Specialist - BU PPMV, Member- PPMV International Team of R&D Experts of ABB India Ltd, was delivered on 3rd Oct 2015. Members of IETE, CSI and Indian Society for Training & Development (ISTD) were specially invited to encourage and foster partnership with other professional societies. **Shri Naresh Kumar Garg**, Centre Chairman delivered the welcome address. The lecture evoked good response from the participants and led to a fruitful



Brig M K Sasidharan (Retd),
Past Chairman, IETE
Trivandrum Centre,
addressing the gathering

Dr Kuncheria P Isaac,
Vice-Chancellor, APJ Abdul Kalam
Technological University, Kerala,
(Centre) being felicitated



Dr Vijay K Shah, the speaker, making his point

open discussion at the end of the lecture. In the presentation Dr Shah exhaustively covered different aspects starting with fundamentals and encompassing challenges & applications. Shri Tushar B Kher, Hony Secretary of the Centre proposed the vote of thanks.

- **62nd IETE Foundation Day** was celebrated on 11th Dec 2015. **Dr V K Shah**, Hony Treasurer briefed on the selected theme. **Shri Naresh Kumar Garg**, Centre Chairman read out the message by President IETE. **Dr R C Desai**, Founder Centre Chairman, shared his experiences since the inception of the Centre. **Prof (Dr) R C Desai** (F-081107), **Air Vice Marshal (Retd) N N Shah** (F-027993), **Prof M M Pathan** (F-135196) and **Prof V Y Sane** (M-044774) were felicitated as senior members on the occasion. On this occasion a technical talk by industry expert, Shri Priyank Desai, ABB Ltd, Vadodara, was delivered on “**Digital India**” that evoked good response from the audience. Shri Tushar B Kher, Hony Secretary and Prof (Dr) Mamta C Padole, were also present in the programme.



Members commemorating, IETE Foundation Day at Vadodara Centre

- A lecture on “**Design based efficient lighting for smart cities/villages**” on 5th Mar 2016 by **Shri Kaushik Parmar**, Exec Engr & Head of Street Light Dept, Vadodara Municipal Corporation (VMC), Vadodara, was held under the aegis of bimonthly technical lecture series. The speaker explained the various projects that are undertaken by VMC for efficient lighting and has resulted in huge saving (to the tune of Rs 880 Lacs per annum) in electricity bill for them. In his talk he also elaborated their initiatives in saving the electricity in the area of sewage treatment plant and water intake wells; the system of façade lighting and efficient traffic signal system that have been implemented. **Shri Tushar B Kher**, **Shri Naresh Kumar Garg**, **Prof R C Desai**, Founder Chairman and **Wg Cdr (Retd) Sanat Vasavada** were also present on the occasion. Others present were IETE members, members from industry and EME

School (Organization Member), faculty from SVIT Vasad, and Faculty of Engineering and Technology, MS University of Vadodara and member of ISTD, Vadodara Chapter.

VIJAYAWADA

The Centre celebrated **IETE Students' Day** on 1st Feb 2016 by organizing a technical paper contest-2016 for IETE students & 32 ISF members of various engineering colleges (5 districts of AP, i.e. Krishna, Guntur, Prakasam, Khammam & West Godavari). Dr G Sambasiva Rao, Principal, Sir C R Reddy College of Engineering, Eluru, WG Dist graced the event as chief guest. In his address, he stressed on developing the additional skills apart from class room knowledge that would help the students grow and meet industry requirements. He emphasized on the importance of IETE in making industry ready engineers, of technical skills and innovation in telecom field along with their work experience. About 24 papers were selected & presented out of 56 research papers/articles. The research paper/articles, focused on technologies that helped society, i.e. helping farmers, performance of Embedded Systems for Automobile Industry, improved energy resources like solar technology, toll gate Atomization at toll gates, Radar System adoptability, Image Processing, Transportation of energy, Power without the help of wires. **Er K Lakshminarayana**, Sr Asst Prof (ECE) & **Er R Satish**, Asst Prof (ECE), Sir C R Reddy College of Engg, Eluru, W G Dist, acted as judges for the paper contest.

Er K Ravi Naga Bhaskar (M-127023), student Alumni from the Centre was felicitated on this occasion. The cash prizes were given to the first three winners of the technical contest. 1st Prize went to Mr K S S Sainath and Mr S Sai Revanth from Vishnu Institute of Technology, Vishnupur, Bhimavaram, W G



Winners being honoured for the Students Technical Paper Contest

Dist, for their paper entitled “**A Semi Blind Self Reference Image Watermarking Using SVD**”; 2nd Prize went to Ms K Kala Madhuri and Ms A M S Harini, Sri Vasavi Engg College, Pedatadepalli, Tadepalligudem, WG Dist, for their paper entitled “**Li-Fi**”, and the 3rd Prize was bagged by Mr S Sasi Kiran and Ms R Anusha, Vishnu Institute of Technology, Vishnupur, Bhimavaram, WG Dist, for the paper entitled “**Mobility Models on Mobile Ad-hoc Networks**”. Certificates were distributed to all the participants. **Dr K Ramanjaneyulu**, Hony Secretary of the Centre, read out the message sent by President IETE. **Dr G N Swamy**, Centre Chairman highlighting the purpose said that students should build a good character and gain more knowledge in order to have better opportunities. They should also grow as good human beings and get ready to serve the society. Participation was from student members, EC Members, corporate members and various engineering colleges, namely Bapatla Engg College; Sir C R Reddy College of Engg, Eluru; Gudlavalleru Engg College, Gudlavalleru; Sri Vishnu Engg College for Women, Vishnupur, Bhimavaram; Sri Vishnu Institute of Tech, Vishnupur, Bhimavaram ; Sri Vasavi Engg College, Pedatadepalli, Tadepalligudem; V R Siddhartha Engg College, Vijayawada; P V P Siddhartha Inst of Tech, Vijayawada; SRK Institute of Tech, Enikepadu, Vijaywada and many more.

YAVATMAL

- A National Conference on “**Recent Trends in Mobile and Cloud Computing (NCRMC-2015)**” at Sanmati Engineering College, Washim, Maharashtra, was successfully held during 8th-9th Oct 2015 at the Sub-Centre. More than 100 delegates attended the conference.
- ISF at Jawaharlal Darda Institute of Engineering & Technology (JDIET), Yavatmal (MS) in association with IETE Yavatmal Sub-Centre celebrated the “**IETE Students’ Day**” on Feb 3, 2016. On this occasion, a general knowledge test was arranged. Shri Ashish Nehare, Chairman, ISF JDIET, Dr A W Kolhatkar, Principal, JDIET Yavatma, Dr S S Bharatkar, Vice-Chairman IETE Yavatmal Sub-Centre, and Prof P M Pandit, Hony Secretary and ISF Faculty Advisor shared the dais. About 73 ISF members participated in this general knowledge test.



IETE Students’ Day
Celebration

General Knowledge
Test being conducted

at the Sub Centre

ESSCI Training Programme

Trainees from **IETE Mankapur Centre & IETE Delhi Centre** were short listed to attend the Train the Trainer (TOT) program on “**Solar Panel Installation Technician**” organized by Electronic Sector Skill Council (ESSCI) at National Institute of Solar Energy (NISE) during **8th Feb - 12th Feb 2016**. The program was very useful to the participants as each of them

received hands on training for Solar Energy System like Solar PV Technology, on Grid System, off grid System and Net Metering and Hybrid System etc. The training was according to the National Standard Occupation (NOS) for the course curriculum.



ISF Activities

Even though we are taking every care and effort to publish all the reports that we receive from ISFs/Engg Colleges, some time due to certain constraints, we may not be able to publish all the reports. This should not deter the spirit of our ISFs in contributing news and we request them to continue to keep sending activity reports as ever.

- **ISF at Vardhaman College of Engineering**, organized a Guest Lecture on “VLSI Design Methodologies” on **Apr 18, 2015** by Dr G Laxminarayana, Hony Treasurer of the IETE Hyderabad Centre.
- A new **ISF** was inaugurated at ECE Dept, **Haldia Institute of Technology (HIT), Haldia, Purba Medinipur, WB**, on **Jul 23, 2015** with the support and coordination of IETE Kolkata Centre. The eminent persons present during the inauguration were: Prof (Dr) J Bhaumik, HoD/ECE; Prof (Dr) M K Pandit, Dean, SECI, HIT; Prof A K Jana, Asstt Prof/ECE, HIT; Prof P K Das; Dr A Guha, FIETE; Shri R N Lahiri, past Centre Chairman of IETE Kolkata Centre; Shri J K Dutta, Hony Secy of Kolkata Centre. Spoken English Orientation Course was held on **Aug 10–21, 2015** to provide services to the students in every field in order to make them capable of facing the corporate and technical world. A workshop on C programming and the application of C in data structure was organized during **Aug 18 - Sep 11, 2015** with IETE Kolkata Centre. This was the initial step towards the development of the skill of II & III year students in the field of programming. In-house faculty members gave their support by delivering lectures, sharing programming tips and tricks and making doubt clearing sessions. Another workshop organized was on Advanced Robotics using Embedded Systems, during **Oct 13–15, 2015**. 40 participants registered and successfully completed the workshop.
- **ISF at Manakula Vinayagar Inst of Tech (MVIT), Puducherry**, conducted a two-day workshop on Digital Image Processing using MATLAB by Mrs D Saraswathy, Mrs B Lakshmi Priya & Shri V Rajesh, ECE Dept for the students of IV year BTech & MTech on **Aug 5-6, 2015**. This provided students technical knowledge and covered MATLAB on various techniques on image Processing. Vote of thanks was proposed by Shri S Arunmozhi.
- **ISF at National Engineering College, Kovilpatti**, organized a number of technical activities that included: a guest lecture on “Recent Trends in Wireless Technology” by Dr Klutto Milleth, Chief Technologist, CWIT, IIT Madras, on **Aug 07, 2016**; a special lecture on “Internet of Things (IoT)” by Shri A Saravana Selvan, Asstt Prof ECE Dept, on **Sept 02, 2015**; a lecture on “MEMS in RF Field” by Dr V Prithivi Rajan, Asstt Prof, on **Oct 13, 2015**; a two-day workshop on “Sensor Networking and IoT” on **Jan 04-05, 2016** by Prof Jayaraman, Former ISRO Project Head, Trivandrum; a two-day seminar cum workshop on “Linux Basics & Hands on Training” on **Feb 11-12, 2016** by Shri M Boominathan, Senior Technician, ECE Dept & IETE Student’s Project Expo 2016 on **Feb 24, 2016**.
- The Dept of ECE at **ISF, PSG College of Technology, Coimbatore**, conducted three main events namely-Netsim, Technotronz and Video Chat with experts (2015 -2016) in association with IETE Coimbatore Centre. 1st event-a one-day workshop on “Wireless Sensor Networks–A Cognitive perspective using NetSim” was on **Aug 22, 2015**. Shri Nirjhar Bera, TETCOS, Bangalore, presented the workshop on the basic knowledge of Netsim which was widely supported by a group of enthusiastic students. The experts provided the trial license for the students to use the software as well that proved to be advantageous. The 2nd event–Technotronz was a two-day event focused on improving the knowledge of students in both hardware and programming side. Two events namely Technothirst and Code Rush were conducted in parallel on **Sep 22-23, 2015**. 3rd event - Video Chat with experts was held on **Dec 29, 2015**. Two experts, namely Shri Rajasekar, a doctoral student from Nanyang Technological University, Singapore and Shri Karthi Subbiah, digital hardware designer in Qualcomm Technologies Inc, Colorado, were present during the session, focusing on machine learning and digital design and verification. Dr R Venkateswari was organized such innovative events and workshops.
- **ISF at BIT Mesra, Ranchi, Jharkhand**, conducted a four-day workshop on Industrial Automation using Programmable Logic Controllers (PLCs) workshop for EEE & ECE students during **Aug 22-25, 2015**. Another two day workshop on Circuit Logic and Design (CLD) was conducted during **Jan 16-17, 2016**. The first day began with discussions on the importance of electrical and electronics with the motive of teaching the participants how to recognize various circuit elements and to know their rating for proper operations. The simulation of circuits on software was carried out and participants designed the circuits on the virtual simulation software multisim. Internal circuitry of breadboard and various other circuit boards like veroboard were taught. It also conducted CAT (Circuit Aptitude Test) to screen the potential of job applicants- a weekly event that is conducted to help the participants know where they stand in the crowd. This activity benefits the students during their internship and placement processes.
- **ISF at Stanley College of Engg and Technology for Women, Hyderabad**, was inaugurated by Dr K Jaya Sankar, Centre Chairman on **Sep 11, 2015**. Er Nuli Namassivaya, Hony Secretary and Dr G Laxminarayana, Hony Treasurer, IETE Hyderabad Centre, were also present for the inaugural function. The ISF organized a technical quiz competition (TECHQUIZ 2K16) on **Feb 27, 2016**.
- **ISF at KMEA Engineering College, Edathala, Kerala**, conducted its annual mega event, the “I-Week”, from **Oct 5-9, 2015** in association with IEEE Students branch of the college. Dr M V

Rajesh, Hony Secretary, IETE Kochi Centre and Chair, Inter Society Activities, IEEE Kochi Sub Section was the Chief Guest. Others who graced the event were: Dr Amar Nishad TM, College Director and Dr T K Mani, Principal. This one week event covered a series of workshops, seminars and technical talks, aimed for the students of the CSE, ECE, EIE, EE and IT branches. Topics discussed were-Robotics, Networking, Embedded Systems, Signal Processing, Energy Management & Auditing and Lab View Software. The workshops & talks were handled by experts and professionals from industry and academia.

- **ISF at Sankalchand Patel College of Engineering (SPCE), Visnagar**, conducted an expert talk on “Narrowing the Gap between Industry and Academia” by Shri G C Jain, Dir, MCBS, Gandhinagar on **Oct 10, 2015** in association with IETE Ahmedabad Centre.

- A new **ISF** was established at **Indus College, Gandhinagar** in **Dec 2015**. 50 students enrolled for the same.

- **ISF at Vidya Academy of Science & Technology (VAST), Thrissur**, celebrated its 5th Foundation Day on **Oct 14, 2015**, wherein the welcome address was delivered by Shri Ajay Sreedhar, ISF Chairman, VAST and Dr Sudha Balagopalan, Principal, VAST, presided over. The Chief Guest Dr T K Mani, Principal, KMEA Engg College, inaugurated the ISF. Dr M V Rajesh, Hony Secretary, IETE Kochi Centre & Principal, ISSAT was also present. Er G Mohanachandran, Exe Dir, VICT; Dr S Swapna Kumar, HoD, ECED, VAST, & Dr V N Krishnachandran, Vice Principal & HoD MCA, VAST, were felicitated on this occasion. On the occasion IETE-ISF VAST the unit's website was launched and the half yearly Newsletter –Highlights, was released.

- **ISF at R L Jalappa Institute of Technology Bangalore**, conducted a technical talk by Shri R Shashishekar, Divisional Head-PMS & BPSD, ISRO, Bangalore, on “Satellite Operations” on **Oct 14, 2015**. About 200 students & faculty members from different branches participated. The program was presided over by Shri Nagendraswamy – CEO, R.L Jalappa Group of Institutions.

- The inauguration of **ISF at EXTC Dept of Pillai HOC College of Engg & Tech (PHCET), Raigad, Rasayani, Maharashtra**, was held on **Oct 17, 2015**. The function was presided over by Dr M K Sinha Founder Chairman, IETE Navi Mumbai along with Dr Milind Shah, Chairman, and Prof Baban U Rindhe, Hony Secy, IETE Navi Mumbai Centre. The inauguration was done by pressing enter key of keyboard by all the dignitaries, a two-minute video clip reflecting the “Digital India” concept was displayed. Prof Divya Chirayil, HoD of EXTC Dept; Dr Shrikant Charahate Dean, PHCET; Dr M K Sinha; Dr Milind Shah, Chairman & Prof Baban U Rindhe, Navi Mumbai Centre; Prof Yogita Mistry, ISF Coordinator, PHCET, were present along with students, HODs and faculties & non-teaching staff members. Prof Aawab Shaikh, co-ordinator of KCOE, Kalamboli, also addressed the students.

- A new **ISF** at **Dept of ECE, Sree Narayana Gurukulam College of Engg (SNGCE), Kadayirappu, Kolencherry, Kerala**,

was inaugurated by Dr M V Rajesh, Hony Secretary, IETE Kochi Centre on **Oct 28, 2015**. Prof (Dr) S P Namboothiri, HoD/ECE, in his address highlighted the role of engineers in the society. Dr Saji C B, Principal, SNGC, presided over the function. The function was also graced by Dr C E Krishnan, Dir and Dr Kemthose P Paul, Vice Principal. A two-day technical workshop on ‘Design & Implement Software Defined Radio Systems on Xilinx Zynq SOC’ in association with Coreel & XILINX was organized on the occasion. A guest lecture by Shri Raghunath TN, Mgr, Fibre Optics Division, NeST, Kochi, was delivered on “Fiber Optics Technology latest Developments, Demand and Supply” on **Mar 14, 2016**.

- **ISF at DITU, Dehradun**, organized a technical lecture on “Microwave and Millimeter Wave Technology” by Shri A K Shukla (Retd) Scientist –G DEAL DRDO on **Oct 30, 2015**. The inaugural ceremony was chaired by Prof Dr K K Raina, Hon’ble Vice-Chancellor DIT University Dehradun. The distinguished guests included: Shri PK Mittal, Shri Abhi Mishra, and Shri Sanjay- all senior scientists from DEAL-DRDO. HoD ECE, Dr Sandeep Sharma, Mrs Brajlata Saurabh, Chairperson ISF DITU, regional centre DEAL DRDO who spoke about the vision and mission of DITU and how UG, PG & research scholars would be benefited with this association. The ISF organized another workshop on “Circuit Simulation and Fabrication using 555 Timer” on **Oct 24, 2015** by Shri Rohit Singh & Shri Bhupendra Singh, Schematic Microelectronics, Dehradun. A technical quiz competition QUIZO-15 was held for I,II&III year students respectively. Shri Rohit- an industry expert, delivered a lecture on “Future Prospect in the field of electronics and electrical engineering” and discussed about the expectations of electronics industry. Prof Col Shishir Kumar, Dir, Academic, DIT Univ, Prof (Dr) KK Raina expressed their views on the event through motivational speeches. Vote of thanks was proposed by Ms Ankita (ECE 4th year). Dr Sonika Singh, Shri Saurabh Mishra, Ms Anamika, Dr Rashmi Chaudhary, Dr Smriti Agrawal, Shri Raushan, Dr Tarun Sharma, Shri A Mathew were few of the eminent persons present during the event.

- A new **ISF** at ECE Dept, of **Christ University Kengeri Campus, Bangalore**, was inaugurated on **Nov 19, 2015** by **Dr D C Pande**, Chairman IETE Bangalore Centre.

- **ISF at Mahaveer Institute of Science and Technology (MIST), Hyderabad**, organized a lecture on Digital India: Opportunities & Challenges on **Dec 11, 2015** by the Chief Guest Smt Smriti Dagur, President IETE. She was felicitated by Shri S Sudershan Reddy, the Chairman; Shri S Surender Reddy, Secretary; Dr KSSSN Reddy, Principal; Dr Gunasekhar Reddy, HoD, ECE & Prof (Dr) B Visweswara Rao and other faculty members present on the occasion. Around 300 BTech students attended the lecture.

- The Dept of ECE at **ISF of Anil Neerukonda Institute of Technology and Sciences (ANITS), Visakhapatnam** and **IEEE Student Branch**, jointly organized a one-day Circuit Design Competition, “EXPLORE” on **Dec 19, 2015** with the motive to

improve the engineering analysis skills, technical interview skills of the students, developing electronic circuit design skills, enhancing the ability to function effectively as an individual and as a team. Prof (Dr) K Murali Krishna, HoD/ECE & Coordinator ISF, inaugurated the event. Out of 88 registered students, 16 shortlisted students attended the interview. Prof VSRK Prasad, Principal, ANITS, distributed the prizes to three winning batches and certificates to the participants.

- A two-day workshop on “Research Trends in Electronics and Communication Engineering”, was organized at **ISF of CVR College of Engineering, Vastunagar, Mangalpalli, Ibrahimpatnam, Telangana on Dec 21-22, 2015** for about 163 students. The aim was to provide guidance to select areas in the subject for their project works.

- **ISF at Guru Gobind Singh Foundation’s Guru Gobind Singh Polytechnic (GGSP), Nashik**, was inaugurated on **Dec 28, 2015** in the Dept of ECE. Dr Abhay Wagh, Dir, Maharashtra State Board of Technical Education (MSBTE), the chief guest & key note speaker, in his address highlighted the futuristic trends in the technical education. This was followed by the address of guest of honor, Shri D P Nathe, Jt Dir, DTE, RO Nashik, on “Role of Teachers in future of Technical Education”. Dr M D Kokate, Chairman, IETE Nashik Centre, Dr D M Chandwadkar, Vice Chairman, IETE Nashik and Prof P S Duggal, Principal, were all present.

- New session was inaugurated at **ISF at Nandha Polytechnic College, Perundurai, Erode**, on **Jan 04, 2016** by Dr S Arumugam, Chairman, IETE Erode Centre, the Chief Guest. Dr N Kasthuri, Hony Secy, IETE Erode Centre, delivered the keynote address. Thiru M Rabi Ahamed, Principal, Shri M Arunkumar, HoD, Selvan, students Chairman and Ramisetty Teja were present amid the guests. 50 students were registered as members of the ISF. A special lecture was conducted on the same day for the benefit of the students. Shri S Maheshwaran, Asst Prof (SLG), ECE, KEC, delivered the talk on “Project developments using Microprocessor and Microcontroller” in which 50 IETE student members and 20 non-IETE students participated.

- Dept of ECE at **ISF Shri Vishnu Engineering College for Women (SVECW), Bhimavaram, AP**, conducted ‘IETE Poster League (IPL)’ on **Jan 07, 2016** for II year students of ECE Dept. Around 81 members participated but only 40 selected posters were displayed. Coordinator Shri P Ravi Kumar, Prof G Srinivasa Rao, Principal, Prof P Srinivasa Raju Vice-Principal, Prof GRLV N Srinivasa Raju, HoD/ECE, attended the program. Shri K Murthy Raju, Shri M Prema Kumar acted as judges for this event. Winners were: Ch Vasavi Preety (II ECE-A) and Shri D Prasanna Lakshmi (II ECE-A) on the topic: WIVI-Technology and the runners up were: Shri K Meghana (II ECE-B) and Shri M Harika (II ECE-B) on the topic: Radio Tomography. The ISF celebrated its Students’ Day on **Feb 01, 2016** with Shri P Ravi Kumar as the Chief Guest. Other eminent persons of ISF were also present on the occasion. Prizes were distributed to the winners /runners up of IPL and Hobby Project Expo. Spot events organized were: technical quiz and spell-bee.

- A one-day seminar on “Digital India & Career Opportunities” was organized by the Dept of ETE of **Late G N Sapkal College of Engineering (LGNSCOE), Nashik**, in association with IETE ISF on **Jan 13, 2016**. On this occasion, space educator and Hony Secretary IETE Nashik Centre, Ms Apurva Jakhadi addressed the gathering on the theme of Digital India and career opportunities in Space Technology. Calling this event as significant because of two reasons, she informed that the day also happened to be the birthday of Indian space cosmonaut, Rakesh Sharma who turned 67 this year. In her address she emphasized on the need of producing good space scientists and appealed the youth to take up the challenging careers & to explore the career opportunities in space. The event was supported by Shri Ravindra G Sapkal, CMD, Sapkal Knowledge Hub and Prof (Dr) V J Gond, Principal, Prof S B Bagal, HoD/ETE, Prof M P Bodkhe, ISF Coordinator, LGNSCOE, Nashik.

- **ISF at Dept of ECE, Nandha Engineering College, Erode**, organized a First Aid Training programme in association with IETE on **Jan 22, 2016**. Shri K Krishnamoorthy, Chairman, St John Ambulance First Aid Training Center, Perundurai, was the resource person, who provided training on “First Aid Management”. The ISF inaugurated “N&A Embedded Center of Excellence” in association with ABE Semiconductor Design, Chennai, on **Mar 9, 2016**. Shri A Athif Shah, MD, ABE Semiconductor Design, Chennai, was the chief guest for the event. The ISF also conducted 8th National Level Technical Symposium “GENESIS 2K16” in association with IETE Erode Centre on **Mar 9, 2016**. Shri A Athif Shah, MD, ABE Semiconductor Designs, Chennai, the chief guest, delivered his address. Prof S T Sadishkumar, HoD/ECE, Prof T Jayachandran, AP/ECE and Prof R Murugasami, ASP/ECE were also present. The 4th National Conference on “Advanced Computational Intelligence Systems-NCACIS-16” was held on **Mar 19, 2016** in association with IETE Erode Centre. Dr S Vijayachitra Prof, Dept of EIE, KEC, Perundurai, was the chief guest. Prof (Dr) C N Marimuthu, ECE & Dean (R&D); Prof P Sukumar, ASP/ECE; Prof R Murugasami, ASP/ECE; Prof G Prabhakaran, AP/ECE; Prof T Jayachandran, AP/ECE; ISF Co-coordinator Prof R Murugasami, ASP/ECE and students from different engg colleges, attended the conference.

- **ISF at Dept of ECE, M Kumarasamy College of Engineering, Thalavapalayam, Dist Karur (TN)**, was inaugurated by Dr Abdulla Kutty Karapoola, CEO, Skillforte, Bangalore, on **Jan 27, 2016**, who delivered a very informative and interesting address on the occasion.

- A national workshop was organized on “RF Measurements using Network Analyzer for Wireless Communication” in association with DST-FIST & IETE Chennai Centre on **Jan 28-29, 2016** at **ISF Vel Tech Multitech Dr Rangarajan Dr Sakuntala Engineering College, Avadi, Chennai**. The resource persons were: Er Gokuldev, Application Engineer-Elmack Services and Dr Piramasubramanian, AP/MIT-Anna University, Chennai. The objective was to teach designing of RF antenna, studying the performance of proposed antenna with various parameter analyses and testing by using RF Vector Network Analyzer.





Appeal to IETE Corporate Members

All IETE Corporate Members are requested to intimate any update in their E-mail IDs or Mobile numbers immediately to IETE HQ on sec.gen@iete.org

About 24 participants from nearby engineering colleges participated and were given hands on training. Dept of EEE also organized a guest lecture on "Introduction to Matlab & Simulink" by Dr A Sivaprakasam, AP/EEE, Anna University, Chennai on **Mar 29, 2016** in association with IETE. Dr K Murugesan was felicitated in the inaugural function. Vote of thanks was delivered by Shri Pradeep Katta.

- **ISF at AAA College of Engineering and Technology (AACET), Sivakasi**, was inaugurated on **Jan 30, 2016** by Dr D Selvathi, the Chairperson of IETE, Sivakasi Centre, Mepco Schlenk Engineering College, Sivakasi. Dr K Arulmozhi, Principal, AAA College of Engg & Tech and Mrs S Renuka, HoD, EC Dept, addressed the students. The faculty coordinator Mrs S Thayammal, AP/ECE, announced the office bearers of ISF and a seminar was organized on "Embedded Processors and Applications" for the benefit of the students.

- Celebrating the IETE Students' Day on **Feb 01, 2016**, the **ISF at Kamaraj College of Engg & Tech (KCET), Virudhunagar, TN**, organized a debate for II year, a Quiz for III year and a Coding Programming for IV year ECE students, wherein they exhibited their novel ideas and proved their talents. The winners for Quiz Competition were: G.Kannan & V Vishnukumar - I Prize; K Hemalatha & C Sabitha - II Prize and K Karthikeyan & P Praneesh- III Prize. For Debate competition the winners were: Ramakrishnan & Vignesh Jeyanthan - I Prize; Vikash Krishnan & Morsh-II Prize and Poornakala & Ramya-III Prize. In the Coding and Programming, the winners were: S Annapoorani & M Kamatchi Sundari- I Prize; R Jayashree & V Kavitha-II Prize and M Bhuvana & R Muthu Kameswari-III Prize.

- Dept of ECE, of **ISF K L University, Guntur, AP**, organized a Paper presentation Competition on **Feb 01, 2016**. 18 teams (II, III year) ECE students participated and presented their papers. The events developed technical knowledge and competition spirit among the students. Dr KSN Murthy, Co-ordinator ISF; Dr Habibullah Khan, Dean Student affairs; Dr ASCS Sastry, HoD/ECE and Dr M Siva Ganga Prasad, alternate HoD were present during the function. The best three teams were given cash prizes.

- Dept of E&TC at **ISF Amrutvahini College of Engineering (AVCOE), Sangamner, Maharashtra**, organized a Quiz Contest and a Robotics Workshop on **Feb 02, 2016** in association with IETE Nashik Sub-Centre to commemorate IETE Students' Day. The eminent persons present on the occasion were: Mrs Sharayutai Deshmukh, Dir, AVSSVS, Sangamner; Ms Apurva Khakhadi, Hony Secy, IETE Nashik Sub-Centre; Dr G J Vikhe Patil, Principal, AVCOE, Sangamner and Prof Labade R P, HoD/E&TC, AVCOE. Ms Jhakhadi motivated the students through her address and showed few videos on Space to create interest among students. She also appreciated the efforts of organizers and lauded the fact that fund collected from the workshop would be donated to Sangram Muk Badhir Vidyalaya, Sangamner (deaf and dumb student's School). Prof M D Kokate Centre Chairman, Prof R S Pawase were also present. The Quiz contest was organized in three rounds, viz. Aptitude Test, Quiz round & Rapid Fire Round consecutively. The contest witnessed 323 participants of engineering colleges from Nashik & Ahmednagar & Pune Districts.

- The **ISF at MVSR Engineering College, Hyderabad** organized a two-day national workshop on Android Application Development during **Feb 05-06, 2016**. A total of 108 participants attended the workshop with the convenor Er Nuli Namassivaya, Faculty Advisor, ISF and Hony Secy, IETE Hyderabad Centre. Prof V Chandrasekhar, Chief Patron, ISF & Principal, MVSR Engg College, inaugurated the workshop as the Chief Guest, whereas Prof C R Sarma, Vice-Chairman, of the Centre was the Chief Guest for the valedictory function and he distributed certificates to the participants. The participants through this workshop got hands on experience with the App Designing Software by experts from ARK Technologies and the prize winners got an opportunity to participate in the finals in Amalgam 2016 at IIT, Madras. Another 2-day workshop was conducted on "Internet of Things (IoT)" during **Mar 18-19, 2016** in association with IBNC and i-Medita in the College with Er Nuli Namassivaya. The Chief Guest, Shri K Seetha Ram Babu, Chairman, TPC, IETE, Hyd Patron of MVSR ISF, Dr V Chandra Sekhar, Principal, MVSR Engg. College, were present among others. About 58 participants underwent hands on experience training on Aurdino kits by making robots and finally the winners were awarded. Next day in the valedictory function, the chief guest, Sri M Krishna Kumar, Vice Chairman-II, Matrusri Education Society distributed certificates to the participants.

- The Dept of ECE at **ISF Nandha College of Technology (NCT), Erode**, organized an Seminar on "Industrial Automation" by Shri R Harish Ravi, Business Development Manager (Technologies), Bangalore, on **Feb 06, 2016**. An Academic Seminar on "Electro Magnetic Fields and Antenna and Wave Propagation" was held during **Feb 13-15, 2016**. The key speakers included Shri R Veeramani, AP/ECE, and Dr J Gnanambigai, ASP/ECE, KSR College of Engg (Autonomous), Tiruchengode. The ISF organized a student development programme and PCB Club Activity on "Design of Robotics and Student's Empowerment & Hands on Training on PCB Designing" on **Feb 20, 2016** with the speakers: Shri M Sadheesh Kumar, Technical Support Engr, Roibin Industrial Automation & Training Center, Erode and Shri J Balaji, Operation Head, Step One Services, Erode, Shri Sameer & Shri Ruthirapathy, Tech Technology, Coimbatore. The ISF organized a MoU Activity-Seminar on "Requirements in Core Industries" & "Web Development" during **Feb 24-26, 2016** with the key speakers - Shri S Sundaramoorthy, Mg Dir, Sunshiv Electronic Solutions, Coimbatore and Shri A Sathees Kumar, Propulsion Technologies, Coimbatore. Shri Kumar signed a MoU between Propulsion Technologies and Nandha College of Technology of ECE Dept. The ISF conducted an International Conference on "Emerging Trends in Science, Engineering and Technology – ICETSET'16" during **Mar 05-06, 2016**. The Chief Guests gracing the occasion were: Prof Dato, Dr Sivalingam Nalliah, International Medical University, Malaysia; Dr Shamala K Subramaniam, University Putra Malaysia; Prof (Dr) V Raju, Pro-Vice Chancellor, VIT University, Vellore and Shri Arunkumar Arumugam, Sr Statistical Programmer, PAREXEL International, North Carolina, USA. Dr R Nallusamy, Principal, NCT, Thiru S Nandha Kumar Pradeep, Secretary, Sri Nandha Educational Trust (NCT), Thiru S Thirumoorathi, Secretary, Nandha Educational Institutions (NEIs), Dr S Arumugam, CEO (NEIs) & Chairman of IETE Sub centre, Erode (Salem), KEC, Erode, Dr S P Viswanathan, Advisor, NEI, and Thiru V

Shanmugan, Chairman, SNE Trust were also present on this function. Dr Arumugam delivered the keynote address and Dr R Nallusamy felicitated the gathering. Dr S Nandagopal, HoD/ECE proposed vote of thanks. An "Inter Department Meet" on **Mar 11, 2016** was organized with events like technical quiz, multimedia and Ad-Zap and the winners were announced by Dr S Nandagopal. The Dept of ECE & ISF organized a MoU activity seminar on "Implementation Strategies in VLSI" on **Mar 16, 2016** by Ms P Ponmalar, Project Engineer, Pantech ProEd Pvt Ltd, Coimbatore. The 6th National Level Technical Symposium "TECHSPURTZ-16" was organized in association with IETE Erode Centre on **Mar 19, 2016**. The Chief addressee was Shri B Karthikeyan, Dir, Thick Tek, Coimbatore. Others present were: Dr S Nandagopal, Dr R Nallusamy, Dr S Arumugam. About 58 students presented their papers while 46 students participated in the events like Project Expo, Multimedia, Ad-Zap, Fun Games, Circuit Debugging and Technical Quiz. The ISF conducted an IETE sponsored seminar on "Trends in Aviation Communication" by the Chief Guest Shri V Muruganantham, Jt GM, AAI, Chennai on **Apr 02, 2016**. An Alumni Meet was organized for the 2010 to 2015 batches on **Apr 03, 2016**. "Association Valedictory Function" of ELCOEF was organized for the Students Association (2015-2016) on **Apr 04, 2016**. Dr R Nallusamy, Principal, NCT; Dr S Nandagopal, HoD/ECE; Shri S Parameswaran, Coordinator/ECE; Ms A R Divya, Shri S Vijay, Shri J Sudhan Karthick and student members were all present.

- **ISF at Maharaja Agrasen Institute of Technology, Baddi (HP)** was inaugurated on **Feb 08, 2016** by the Chief Guest, Prof (Dr) S P Bansal, Vice Chancellor Maharaja Agrasen, University, Baddi, HP. Shri S K Angra, Chairman IETE Chandigarh Centre; Dr P K Awasthi, Treasurer, Dr Surender Singh Saini, EC Member and Sr Scientist, CSIO, Chandigarh officials, spoke in the function. The keynote speaker was Prof (Dr) Mandeep Singh, EIE Dept, Thapar University, Patiala. Dr Amit Kumar Manocha, Assoc Prof, EEED was designated as the ISF coordinator of the University. Formal vote of thanks was presented by Dr Pamela Chawla, Dir, MAIT.

- A new **ISF** was inaugurated by Shri S Ramaswamy, Chennai Centre Chairman at Dept of ECE of **Misrimal Navajee Munoth Jain Engineering College, Chennai**, on **Feb 10, 2016**. Prof (Dr) N Jaisankar, HoD/ECE welcomed the guests, the Vice Principal Dr MDK Kumarasamy felicitated the chief guest, while the Principal Dr C C Christopher delivered the presidential address. Other eminent persons present were: IETE Co-ordinator Mrs S Mohanalakshmi, Assoc Prof and Shri M Thamil Selvan, Asstt Prof. The vote of thanks was proposed by Shri S Aravind.

- The 3rd year EC students of **ISF at Babaria Institute of Technology (BIT), Vadodara**, organized a technical event based on Wireless Robotics during **Feb 12-13, 2016**, that received an overwhelming response. About 66 students with a total of 18 teams participated in the event. The event was organized under the guidance of Prof Vaishali P Salunke and Prof Kokila Parmar.

- A two-day workshop on "Recent trends in FPGA and Embedded Systems" was inaugurated by Prof J V Dave and jointly organized by ISF students of **LDRP-ITR, Gandhinagar & e-iTRA - Einfochips**

India Pvt ltd at LDRP-ITR, Gandhinagar, during **Feb 16-17, 2016**. More than 50 students participated in the event. Dr Kishor C Maradia, Centre Chairman, was the Chief Guest for the valedictory function

- **ISF at Kongu Engineering College(KEC), Perundurai, Erode TN**, organised a National level Technical Symposium, FECTRA 2K16 on **Feb 20, 2016** with a participation of around 757 students from various ISFs. Dr G Murugesan, HoD; Prof S Kuppaswami, Principal, KEC motivated the students through their addresses. Later various technical events like Paper Presentation, C-Debugging and other non-technical events arranged were: Rapidata, Chase Fectra, Photo play, for the students. The ISF organized the valedictory function on **Mar 16, 2016** with Mr Elango Devy, Mg Dir, Diabetic Footcare India Ltd as the Chief Guest, who delivered his talk on "Recent Trends in Biomedical Instrumentation & Career Opportunity". Prof S Kuppaswami, Principal, KEC, Dr S Balambigai, Faculty Advisor ISF, Thiru V K Muthusamy, Correspondent /KEC, Dr P Nirmala Devi, Faculty Advisor /ECE Association, Shri Sunil Swaroop, Secretary/ ECE Association, Ms B Bavithra, Treasurer/ECEA were some of the other members present.

- The Dept of ECE at **ISF JP College of Engineering, Ayikudy**, arranged a technical competition on **Feb 23, 2016** for over 38 students who all participated in various events such as Paper Presentation, Quiz and Tongue Twister. Mrs M Shenbagavalli, HoD, Dr D Gnanadurai, Principal of the college motivated the students through their addresses. The winners included Ms Kamatchi Priyanka and Ms Kanimozhi of final/ECE for the first prize in Paper Presentation; Ms Vanitha and Ms Adhilakshmi of final/ECE for the first prize in Quiz competition and Ms Nivetha of II/ECE for the first prize in Tongue Twister. The competition was coordinated by ISF Coordinator Shri V Ayyappan, AP/ECE.

- A national level seminar on "Internet of Things" (IoT) was conducted at **ISF of K Ramakrishnan College of Engineering, Samayapuram, Trichy**, on **Feb 24, 2016**. Mrs A Chitra, IBES, Dy Dir Doordharsan, Tiruchirappalli was the Chief Guest. Dr D Srinivasan, Principal, K Ramakrishnan College of Engineering, presided over the function. Around 50 students from other colleges participated while the winners were awarded with cash prize of Rs. 6000/- and certificates.

- New session at the **ISF** of Dept of ECE, **PACE Institute of Tech & Sciences, Ongole, AP**, was inaugurated by Dr K Ramanjaneyulu, Hony Secretary IETE Vijayawada Centre on **Feb 26, 2016**. Apart from 63 students members, Dr M Srinagesh, R&D Dir, Prof M Apparao, HoD and Shri B S Ganesh, ISF Coordinator were also present.

- **ISF at BVRIT Hyderabad College of Engineering for Women, Hyderabad**, organized a 2-day workshop on "Analog Discovery Kit" on **Feb 26-27, 2016**.

- A Guest lecture on "Evolution of Wireless Communication and Mobile Technology – 1G and beyond" was delivered by Col K S Chakravarthi (Retd), Immdt Past Chairman, IETE Chennai Centre, at Dept ECE, of **ISF Loyola Icam College of Engineering and Technology, Nungambakkam, Chennai** on **Feb 27, 2016**. The speaker also made a presentation on IETE, its activities and role so as

to create awareness among the students about IETE. As the result of the programme 106 students applied for ISF Membership to start ISF in the college for the first time. Faculty Members were motivated and few of them applied for corporate membership.

- **ISF at Indus University Rancharda, Ahmedabad** was inaugurated by the Chief Guest, Dr Nilesh M Desai, Dy Director, MRSA/SAC, ISRO on **Mar 05, 2016**. Other dignitaries present on the occasion were : Dr S B Sharma, VC, Indus University; Dr Kishor G Maradia, Chairman IETE Ahmedabad Centre. A special lecture was given by Shri A K Lal, Group Dir, SRG/SAC/ISRO on the theme of 'Semiconductor Technology the way forward'. He described the evolution of semiconductor devices and technology and the latest technology in semiconductor. Vote of thanks was given by Prof R N Mutagi, HoD EC, Indus University & ISF coordinator.

- **ISF at Agni College of Technology, Thalambur, Tamil Nadu**, conducted Circuit Debugging for the II ECE students on **Mar 07, 09 & 11, 2016**. Totally 113 students participated in the event. Dr P Gnanasivam, HoD encouraged the winners with certificates.

- **ISF at Dept of ECE, Saveetha Engineering College, Chennai**, organised a national level workshop on "Recent Trends in Image Processing" during **Mar 10-11, 2016**, inaugurated by Ms Srigitha S Nath, HoD/ECE. Shri S Shaik Majeeth was the coordinator. Various sessions on Fundamentals of Image processing, Image enhancement, image diagnosis, and image texture analysis were handled by session experts. The participants had hands on experience in programming on image processing on Matlab during lab sessions. Dr R S Sabeenian, Prof/ECE & Deputy HoD, Sona College of Technology, Salem, the chief guest delivered a lecture on texture classification and distributed the certificates to the participants. The valedictory session was held on **Mar 11, 2016**.

- **ISF at Matrusri Engg College, Hyderabad, Telangana**, organized one-day training on "Analog Circuit Design" on **Mar 11-12, 2016**.

- **ISF at Bharathiyar Institute Engineering for Women, Deviyakurichi, Salem, TN**, conducted an International Conference on Research Advances in Communications, Computation, Electrical Sciences and Structures on **Mar 12, 2016** by all the departments.. The technical sessions were chaired by heads of various Depts. Prof (Dr) R Arangasam, Head/ECE, Paavai Engg College, Namakkal; Dr P A Balakrishnan, Emeritus Prof EEE; Sri Ranganathar Instt of Engg & Tech, Coimbatore; Dr N Sathish, Prof & Head/IT, Mahendra Engg College, Salem; Dr K Vidhya, Prof&Head/Civil Engg, Mahendra Engg College, Namakkal and Dr R Kavitha, AP/Chemistry, Dept of Science & Humanities, Mahendra College of Engg, Salem. 216 out of 250 papers were published in the International Journal of Advanced Research Trends in Engg & Technology (IJARTET).

- A guest lecture on "Fiber Optics Technology Latest Developments, Demand and Supply" by Shri Raghunath T N, Mgr, Fiber Optics Division, NeST, Kochi, was organized at the **ISF, ECE Dept of Sree Narayana Gurukulam College of Engg, Kadayirappu, Kolencherry**

in association with IETE Kochi Centre on **Mar 14, 2016**. Two sessions were arranged, in which 1st session consisted of comparing rate of copper and fiber optic cables with sufficient information and in the 2nd session, the students were familiarized on the implementation of FTTH and different testing meters like OTDR, Power meter. Slicing and color coding using videos and pictures were shown. A video of Fiber Optics Factory of NeST Group, which was very inspiring and informative for the students, was shown in the concluding session.

- Dept of ECE at **ISF, SSM Institute of Engineering and Technology, Dindigul, Anaipatti, (TN)**, organised a one-day intra Departmental Symposium on **Mar 15, 2016**. Dr R Chandran, Campus Dir, Dr R Palanichamy, Principal, Dr A Gopi Saminathan, HoD and Shri M Manikandan, IETE Coordinator of the institute graced the occasion. The national conference on Research Trends in Communication and Information Technologies was organised on **Apr 8, 2016**. With the participation of 32 batches of nearly 100 students. The eminent personalities present were: Shri M Manikandan, AP/ECE - ISF Coordinator; Dr R Palanichamy, Principal; Dr R Chandran, Campus Director; Dr A Gopi Saminathan, HoD/ECE. The Inaugural address was delivered by Dr S Selladurai, Addl Registrar, Chairman, Anna University Sports Board, the Chief Guest. The day ended with certificate distribution to the students by the juries Dr P Thirumurugan AP/ECE, PSNA CET, Dgl; Dr T Kavitha, Prof/ECE, Vel Tech University, Chennai, Dr R Gomathi AP/ECE, University College of Engg, Dindigul campus.

- A Guest lecture on "Data Communication and Networks" was delivered by Col K S Chakravarthi (Retd), Immdt Past Chairman, IETE Chennai Centre, to the students of IT, CS and ECE Depts, of **ISF Sriram Engineering College, Veppampattu (TN)** on **Mar 18, 2016**. He also spoke about IETE, its role & activities to create awareness among the students. Large number of students volunteered to apply for membership and to start an ISF in their college. The Principal motivated the faculties to apply for corporate membership of the IETE.

- A guest lecture on "GPS" was delivered by Dr Swarna Ravindra Babu, EC member of the IETE Chennai Centre & HOD/ECE, at **ISF Kings Engineering College, Chennai**, on **Mar 19, 2016**, attended by about 200 members. The **ISF** also conducted an "International Conference on Innovations and Challenges in Engineering and Technology - ICICET -2016" on **Apr 9, 2016** in association with ISFs (Chennai Centre). Out of 100 papers, 71 papers were shortlisted for oral presentation in the conference.

- **ISF at EGS Pillay Engineering College, Nagapattinam (TN)**, conducted IETE sponsored national conference on Integrated Technologies (NCETMSH-2016) on **Apr 02, 2016**. Commandant S N M Pattanaik, Coast Guard, Commander, Karaikal, was the Chief Guest. Prof M Chinnaduari, DEAN/School of Computing delivered the welcome address. Principal, Dr S Ramabalan presented the presidential address. A conference proceeding was also released on the occasion. Participation was good. Prof R Lakshmi Rekha, HoD/ECE presented the valedictory address while vote of thanks was proposed by Dr S Ponsadai Lakshmi, HoD/ Science and Humanities.

PAC Activities

- Professional Activity Centre (PAC) at **Laxmi Vidyapeeth, Sarigam**, organized a guest lecture on “**National Telecom Policy & We**” by **Shri Hemant R Patel**, Gen Manager, BSNL Valsad SSA on **Dec 10, 2015**. Through his address, he shared some important telecom policies & its significance with the audience. He presented the so called complicated policies of Telecom sector in the simplified way from the need & evolution of the Telecom sector policies from 1st National Telecom Policy-1994, Telecom Regulatory Authority of India (TRAI), New Telecom Policy-1999; opening of NLD (National Long Distance) & ILD (International Long Distance) services to Unified Access Licensing (UASL) to the policy of Number portability. He also highlighted the significant & latest initiatives by GoI, which has benefitted us as a customer. All IETE corporate members and faculty Members of LIT Sarigam, attended the lecture with full of effectiveness. The welcome address was delivered by **Prof Sanjeet Kumar Shrivastava**, PAC Chairman. **Brig (Dr) V D Abraham** (Retd) the founder father of the PAC, felicitated the guest Speaker **Shri Hemant R Patel** with a token of memento. Prof Nipa Modi Exec Com Member proposed the vote of thanks.



- The PAC at **Laxmi Vidyapeeth, Sarigam** organized a one-day workshop, conducted by **Shri Avinash Patil**, CEO, Microhub Automation, Vapi, on the topic “**Recent Trends in Industrial Automation & PLC-SCADA**” in two sessions. The talk was focused on the various aspects of PLC, advantages of using

PLC over controllers, programming the Ladder Diagram, batch processing and current trends in the industry. IETE PAC, Sarigam & ISF LIT, Sarigam, jointly provided the certificate of participation to each participant. Prof Sanjeet Kumar Shrivastava and Prof Suchita Borkar were instrumental in organizing this workshop.

- A one day National Conference on **Cancer Imaging Modalities & Decision Support Systems (NCCI-2016)** was organized by **ISF Royal College of Engg & Tech: (PAC-IETE Kochi Centre), Akkikavu, Thrissur** in association with Dept of Radiology & Oncology, Govt Medical College, Thrissur on **Feb 4, 2016**. The inaugural function started with inspiring welcome speech of Dr Priestly Shan, Principal, Royal College of Engg & Tech, Thrissur. Dr Sherly Vasu, Principal, Govt Medical College gave the presidential address which was very informative to the delegates, participants, doctors and students. **Dr MV Rajesh**, Hony Secretary, IETE Kochi Centre and Principal, Illahia School of Science & Technology, Pezhakkappilly was the Chief Guest. In his key note speech he stressed upon the importance of integrating the research in engineering and medical field. The function were felicitated by Dr R Mahadevan, HOD, Dept of Radiotherapy & Oncology, Govt Medical College; Dr Sheela Karalan, DMO, Indian Systems of Medicines; Mr Mansoor Ali, CAO, Royal College of Engg & Tech; Mr Yahiya P, OM, Royal College of Engg & Tech; Shri Suresh Kumar MK, Circle Inspector Vadakkanacherry Circle. A large number of doctors & nurses attended the function,



Other Events

IEEE IMaRC-2015 – International Conference

IEEE MTT-S International Microwave and RF Conference (IMaRC 2015) held in Hyderabad, (10-12 Dec 2015) was inaugurated by NITIE Aayog member and former Scientific Adviser to RakshaMantri, Dr VK Saraswat on inaugural day. The conference was attended by over 400 delegates from 19 countries for three days.

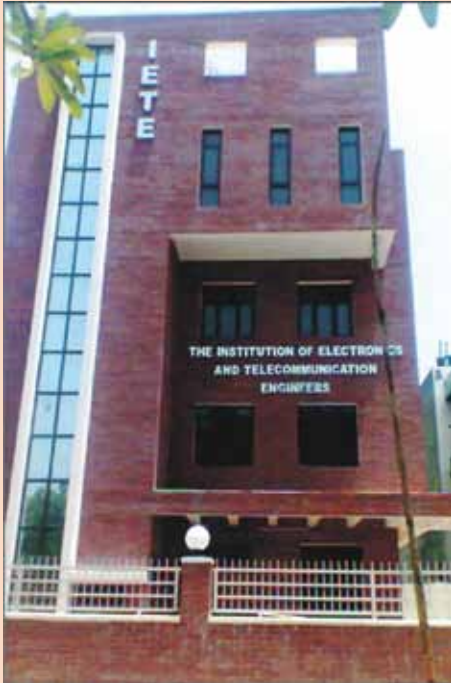


WPMC-GWAS-2015

18th International Symposium on Wireless Personal Multimedia Communications organized during 13-16 Dec 2015 at Hyderabad.



IETE Kakardooma Building inaugurated – 31st Jan 2016



The IETE Kakardooma building was inaugurated by President IETE Smt Smriti Dagur, Shri R K Gupta, Chairman Kakardooma Committee & Immdt Past President and Dr S Pal, Immdt Past President. The occasion was also graced by the presence of Prof K K Aggarwal, Past President, IETE & Lt Gen Ashok Agarwal, PVSM (Retd), Past President IETE; Shri P S Sundaram, Prof (Dr) Gunasekhar Reddy, Shri V K Gupta, Prof (Dr) S K Aggarwal, Col Balraj Anand (Retd), the Governing Council members, Maj Gen P K Jaggia, VSM (Retd), Secretary General, IETE, members & Staff of IETE. Hawan Puja was organized to mark the auspicious beginning.



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I, Maj Gen P K Jaggia, VSM (Retd) hereby declare that the particulars given above are true to the best of my knowledge and belief.

Dated: 1 March 2016

Sd/-
Maj Gen P K Jaggia, VSM (Retd)
Signature of
Publisher

Foundation Day of ECI

The 14th Foundation Day of **Engineering Council of India (ECI)** was held at SCOPE complex on 4th Apr 2016. On behalf of IETE, **Lt Gen (Dr) Rajesh Pant, PVSM, AVSM, VSM (Retd)**, IETE Governing Council, attended this event, which was presided over by **Hon'ble Railway Minister, Shri Suresh Prabhu**. The Chief guest gave away Lifetime Achievement Awards to **Dr D V Kapur (Founder CMD NTPC)** and **Dr Ashok Jhunjunwala** during the function. In his address **Dr Uddesh Kohli** of ECI stressed on the need for ensuring the quality of Engineers. However, he stated that the file for the Engineers Bill was stuck in the Ministry. In the interim the ECI had undertaken registration of Engineers as a 'self regulatory body' and the Minister awarded Certificates to the first five Professional Engineers. Dr Kapur in his address said that while 10 lakh engineers are passing out every year, only 40% of them are found employable by the industry. Hence the need of the hour is not to make more IITs but improve the standards of existing institutions. Dr Jhunjunwala stressed on the need for innovation so that our products are *Made for India*. The Railway Minister also stressed on changing the attitude of PSUs and to give more focus on Project Management.



OBITUARY

With profound grief we inform the sad and sudden demise of the following illustrious IETE members. IETE fraternity extends deepest sympathies and condolences to their bereaved families.



Maj Gen A Balasubramanian (F049173) on 20th Jan 2016 at Chennai. He had graduated from the College of Engineering, Guindy, Madras and after further studies at the Indian Institute of Science, Bangalore, he was commissioned in the Indian Army in December 1950. He retired from the DRDO in 1984 after a long and distinguished career. He was one of the pioneers of the Dept of Electronics which was established by the Government in 1970. When the Electronics Commission (EC) was set up in 1971 with Prof M G K Menon as the Chairman, he served the EC as an Officer on Special Duty and later as Director. He was one of the founders of the Computer Society of India (CSI) in 1965 and its President during 1969-72. He had a

long association with the International Federation for Information Processing, the most prestigious international organization dealing with Information Technology and was also elected as its Vice President. Gen Balasubrahmanian was the Fellow of the IETE and the CSI. In his passing away we have lost a stalwart who played a leading role in the introduction of computerization in the country.

Prof (Dr) R P Gupta (F- 158612), Senior Director, Scope Engineering College, Bhopal, & Immdt Past Chairman, IETE Bhopal Centre passed away on 07 Apr 2016. He has contributed significantly at IETE Bhopal Centre for many years. He had 37 years of experience in Industrial Research & Development; Production; Quality Management; ISO Certification in Indian Telephone Industries and Optel Communications Ltd, Bhopal. Since 2003, he was associated with Engineering Colleges in the capacity of Principal/Director in BITS, Globus Engg College, RGPM, Surabhi College of Engg and Scope College, Bhopal. He was associated with nine societies. His areas of interest were Satellite Communication, Nanotechnology and book writing. His untimely death has been a tremendous loss to IETE.



Air Commodore P D Badoni, VSM (Retd) (F-120822) former Managing Editor of IETE Technical Publications, alumnus of Air Force Technical College and IIT Kanpur and decorated veteran of the Indian Air Force, passed away in Dehradun on April 19th, 2016. He participated in the 1965 and 1971 war. He retired from the IAF at the post of Director M.T. Air H.Q.

Air Commodore Badoni was the recipient of many awards in the IAF including Commendation of the Chief of Air Staff for the 1971 Operations and VSM for leading the indigenization efforts of the IAF. His tenure at IETE saw him editing and managing technical content for 3 IETE journals and many technical seminars, symposia and workshops. His active campaign to improve the technical content and its dissemination is much appreciated by the institution. After his 6 year stint at the institution, he continued his crusade with tenures at Amity University as Director of Industries Interaction and as Consultant and Technical Head for Electronics For You. His presence, guiding light and untiring efforts for the engineering community will be missed by all.

Celebrating IETE Achievers



Prof Swapna Banerjee completed her BE degree (1971) and ME (1974) from the Department of Electronics and Telecommunication Engineering in Jadavpur University. She was awarded PhD degree in 1981 from the Department of Electronics and ECE at Indian Institute

of Technology, Kharagpur, India. She was awarded Post Doctoral fellowship from Tokyo University, Japan. In 1981 she joined as the lecturer in the Dept of Electronics and ECE, at IIT, Kharagpur, where from she retired as HoD in Dec 2014. Presently, she is a Visiting Professor in the same Department.

She has developed a non-invasive blood-glucose measuring and continuous monitoring system using photoacoustic spectroscopy. A CW Doppler Ultrasonography system has also been developed using a VLSI based advanced FFT spectrum analyzer for noninvasive measurement of the blood flow pattern. The system calculates a complete set of clinical parameters and having an inference engine capable of diagnosing the diseases. Her research efforts comprised designing VLSI chips for embedded low-cost, low-power biomedical systems

having the facility of intelligent adaptive control for automated therapeutic purpose. Dr Banerjee has received the prestigious Matsumae International Foundation Award from Japan in 1985. She with her research scholars secured second place at the finals of the Healthcare Innovation World Cup held in New York on May 10, 2013. She also received the IEEE best woman in engineering award in 2015. She is the recipient of DST - Lokheed Martin India Innovation Growth Programme Award, New Delhi, India, 2015 and also 2016.

She has published more than one hundred and fifty number of research papers in reputed International and National journals and conferences. She holds twelve National and International patents. Prof Banerjee, along with guiding a number of doctoral students, is also supervising a number of projects funded by National and International agencies. She is the Fellow of Institute of Engineers, India and senior member of IEEE. Last but not the least, she is the trustee member of Sarada Kalyan Bhandar, a women charitable organization (<http://www.skbcharity.org>).

Its main charter is to uplift backward rural mass through education and health.

We are to find joy in our work and always we are to remember that we owe to our fellow men. Still a big section of our people are below poverty line.. To improve HDI (Human Development Index) of our Nation should be our goal.

To quote from Swami Vivekananda, The more we come out and do good to others, the more our hearts will be purified.

- Prof Swapna Banerjee

Calender of Events

Subject	Date	Venue	Contact
48 th World Telecommunication & Information Society Day, on "ICT Entrepreneurship for Social Impact"	17 th May 2016	Delton Hall IETE HQ	Maj Gen P K Jaggia, VSM (Retd), Secretary General, IETE HQ, 2, Institutional Area, Lodi Road, New Delhi – 110003. Ph : +011-43538821/23
World Telecommunication & Information Society Day	17 th May 2016	IETE Ahmedabad Centre	Dr Kishor G Maradia Chairman, IETE Ahmedabad Centre (M) 09426944500: Tel: 079-26753938/26733931, e-mail: kgmaradia@yahoo.com ; ahmedabad.iete@gmail.com ; ahmedabad@iete.org
South Zone Zonal Seminar and Zonal ISF Congress, on "IOT for Smart Living"	11 th -12 th June 2016	IETE Hyderabad Centre	Dr K Jaya Sankar Chairman, IETE Hyderabad Centre (M) : 09440162196; 08331018501 Tel : 04027098025/27095128 e-mail : kottareddyjs@gmail.com ; ietehyd@gmail.com ; info@ietehyd.org
59 th Annual Technical Convention, on "Make in India-Product Design/IPR in ICT"	24 th -25 th Sept 2016	Delton Hall IETE HQ	Maj Gen P K Jaggia, VSM (Retd), Secy General, IETE HQ, 2, Institutional Area, Lodi Road, New Delhi – 110003. Ph : +011- 43538821/23



Prof M Jagadesh Kumar (F-125340L) of IIT Delhi has been appointed as the new **Vice-Chancellor of Jawaharlal Nehru University**. A professor of electrical engineering, Kumar is the 12th VC of one of the country's most reputed universities. Professor Kumar is also the Editor-in-Chief of IETE Technical Review. He is a member (PT) of Telecom Regulatory Authority of India.

Congratulations Prof Jagadesh Kumar, on being named as the new Vice Chancellor of JNU. IETE wishes him all the best in his new role.

IETE in News . . .

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