

## FROM PRESIDENT'S DESK



It is a matter of satisfaction for all of us that IETE had actively pursued its objectives during 2011. We provided valuable services for capacity building and empowerment of our students. With the strong support of all our Centres, we shall continue to serve the students and society in much bigger way during 2012 also.

IETE Students' Day has become the most important event of IETE. Reports have been received from all Centres regarding celebration of the Day with enthusiasm and fervor. The day has given an opportunity to all IETE students to showcase their abilities in all areas and has generated a competitive environment amongst them.

Conducting Mid Term Symposium is one of the major activities of IETE. This year, the 43<sup>rd</sup> Mid-Term Symposium (MTS) on "ICT in Education" shall be held at Pune on 14-15 April 2012. I invite your participation in the technical deliberations of the Symposium. In all its seminars, forums & conferences, IETE has been promoting the use of ICTs for betterment of society, empowering of communities & improving the employability of younger generation. We hope to hear from learned speakers on latest achievements and future scenario of applications of ICTs in the Education sector. It is, therefore, my earnest appeal to all of you not to miss this opportunity and register in large numbers for the Symposium.

I am also happy to inform that we have opened Sub-Centres at Kozhikode, Surat and Jalandhar. These Centres will open up more opportunities and better interaction with other Centres and IETE HQ and help our students and members living in these regions to achieve their goals.

IETE was also a knowledge partner in the 18<sup>th</sup> International Conference & Exhibition on "Terrestrial and Satellite Broadcasting" - BES Expo 2012, which was organized by the Broadcast Engineering Society from 11<sup>th</sup> to 13<sup>th</sup> Feb 2012 at Pragati Maidan, New Delhi. I addressed the participants as the Session Chairman on the second day of the Conference. This session was focused on "Digital TV Broadcasting Technologies". This opportunity was extensively used to improve the visibility of IETE.

Keeping pace with the initiatives taken during last year, the results of December 2011 IETE Examinations have been declared early this year also to facilitate the students in their admission plans and help them getting into good courses. Students can get results following the link "Result Dec 2011" given in IETE website [www.iete.org](http://www.iete.org)

The deliberations of the Governing Council Meeting held at Thiruvananthapuram gave a big boost to members and students in the state of Kerala. IETE Palakkad and IETE Kochi Centres also participated in the deliberations. There was tremendous publicity of the event through press and media.

Technology is advancing in more specialized fields and it is our duty to keep our fraternity abreast with the latest developments by conducting technical programmes on cutting edge technologies. During this year also, we will persistently reach out for opportunities to connect the unconnected by extending our network.

I look forward to your support in this endeavour and your feedback and suggestions to improve our activities are always welcome.

  
R K Gupta

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IETE HQs, New Delhi



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## News From Headquarters

### Apex Forum on “E-Education Paradigms – Indian Scenario & Challenges”

IETE Apex Forum (2011-12) on “E-Education Paradigms – Indian Scenario & Challenges” was held on 23 Dec 2011 at IETE HQs, New Delhi. **Smt Vibha Puri Das**, IAS, Secretary, Department of Higher Education, Govt of India, graced the occasion as the Chief Guest and **Dr Ashok K Chauhan**, Founder President, RBEF & Chancellor, Amity University, as the Guest of Honour. **Prof (Dr) M Jagadesh Kumar**, Dept of Electrical Engineering, IIT Delhi, delivered the keynote address. Other dignitaries on the dais were: **Shri R K Gupta**, President IETE; **Shri P P Malhotra**, Chairman ICC, **Shri P K Singhal**, Co-Chairman ICC and **Shri S R Aggarwal**, Secy General, IETE. The expert panelists included: **Dr B K Murthy**, Sr Dir (Scientist G), MCIT, Govt of India; **Dr Gautam Bose**, DDG, NIC; **Shri Vimal Wakhlu**, CMD, TCIL; **Dr Sanjeev Singh**, OIC, ICT & E-Learning, ILL, Delhi University and **Dr K Subramanian**, Director & Prof, ACIL, IGNOU.



*Dignitaries on the dais*

**Shri P P Malhotra**, Chairman, Industrial Coordination Committee (ICC), delivered the welcome address and gave an overview of the Apex Forum. He said that the ICTs which brought revolution & paradigm shift in education, would go a long way not only to achieve ‘**Right to Education**’ for all but also to build up a **Knowledge Society** in the higher education spectrum for academia, medical/engineering and management professionals. He highlighted the challenges of infrastructure development, quality content creation, training of teachers, security and regulatory frame work and emphasised that dissemination of ICT in education would depend largely on the pace with which the strategic policy decisions were taken and implemented. He hoped that the participation of professionals with their domain knowledge would result in pragmatic and important recommendations.

In his address **Shri R K Gupta**, President IETE, highlighted the contributions made by **Smt Vibha Puri Das**, the Chief Guest, in bringing reforms in education at higher level and of Government's initiative in implementing education to all. He agreed with the fact that there were shortage of teachers & teacher training programmes, which were posing the biggest challenge world over. He talked of IETE initiatives in the skill development and e-learning areas and emphasized the 'Content' and 'Connectivity' aspects of e-learning for providing education to all. Calling television a very strong medium to provide education, he said that education driven by technology could pave way for millions of our citizens to acquire knowledge & skills. He was of the opinion that with proper connectivity, the education through television

or web based computer was always a better choice than the conventional methods. He informed that IETE deliberated on new policy issues of the Government and sent recommendations to the concern authorities.

**Prof (Dr) M Jagadesh Kumar**, IIT Delhi, delivering the keynote address said that the technology could play a major role especially in conducting entrance examinations if they are made on-line with the use of low cost infrastructure facility like Akaash PC Tablet. He raised the



*Prof (Dr) M Jagadesh Kumar*

issue of accessibility of good quality education to large number of students & suggested that collaborative education system using modern-day technology could be used in providing wider accessibility to good quality education. Another issue raised by Prof Kumar was the use of technology in making the teaching & learning process an enjoyable & gainful experience. For this he suggested digitizing of the lectures & putting them in the e-form so that the student could listen to the lectures any number of times he wished. He added that Cloud Computing could lead to the concept of a completely 'On-line Virtual Open University' where the students could get admission on-line by appearing in on-line entrance examination, attend on-line classes & use virtual lab for experimentation and get on-line degrees after passing out the on-line exams. He suggested that Institutions like IETE could take a lead in visualizing such conceptual model of teaching through Virtual Open University with pro-active role of IIT Delhi and convert these ideas into reality.



*Dr Ashok K Chauhan*

The Guest of Honour, **Dr Ashok K Chauhan**, Founder President, RBEF, was of the view that 65% of Indian population, fitting in the age bracket of 30-35, could be greatly benefited if technology is brought to education in real sense. The use of ICT can spread education to the remotest area of the country. He informed that Amity University was intensively engaged in providing ICT enabled education and appreciated the efforts of IETE in bringing industry and academia together, helpful in overall development of students. He hoped India to become a super power with huge intellectual and skilled manpower.

The Chief Guest **Smt. Vibha Puri Das**, IAS, in her address talked of the Government's 11<sup>th</sup> FY Plan, highlighting its most important feature, i.e. the democratization of education. Informing about three key words in the 11<sup>th</sup> plan, 'equity', 'inclusion' and 'excellence', she said that it would be a herculean task ensuring equitable access to education as by next

decade there would be another 45 million students opting for higher education. She proposed a four-fold strategy of 'Policy', 'Framework', 'Connectivity' & 'Content' for this task. She highlighted the key objectives of the National Education Mission, the Govt initiatives in higher education and the recent developments with regard to contents, connectivity and national knowledge network. According to her the most confronting issue was - Reaching education to the unreached in an anytime, anywhere mode and plugging the shortage of teachers. She urged for partnerships of leading education providers to take education to the large number of people through ICTs, either through radio enabled learning or educational channels or through content development and accomplish the National Education Mission. **Shri P K Singhal, Co-Chairman, Industrial Coordination Committee**, proposed the formal vote of thanks.



A memento being presented to the Chief Guest by President, IETE

Presentations by the expert panelists were followed with a brief introductory address by **Prof R K Arora**, Distinguished Fellow & Past President IETE and Moderator of Technical Sessions. He stressed on creation of contents which according to him was more difficult than that of infrastructure. He said that private universities could play a better role in creating contents and suggested bringing reforms in education system for betterment of students' interaction, exam system and teaching methodology. He talked on the need of locally available experts and networking of all colleges to make full use of ICTs and e-learning.

The first presentation was given by **Dr B K Murthy**, Sr Director (Scientist-G) & Head, HRD & National Knowledge Network Division, DIT, MCIT, Govt of India. Topic of his presentation was "ICT in Education : Challenges, Myths and some Govt Initiatives". He highlighted the need of addressing the challenges in technology, major Govt initiatives & objectives and functioning of National Knowledge Network. **Dr Gautam Bose**, Dy Director General, National Informatics Centre, DIT, MCIT, Govt of India, delivered the next presentation on the topic, "E-Education – learning & teaching through ICTs". Citing the statistics of school and higher education, he discussed the relevant issues and challenges of ICTs in education, its provisions & enablement and detailed roadmap and Govt initiatives on the subject.

The third speaker **Shri Vimal Wakhlu**, Chairman & Managing Director, TCIL, gave presentation on, "E-Education Paradigms – Indian Scenario & Challenges" and discussed recent initiatives taken by TCIL and various other depts of the Govt to meet these challenges. He suggested the measures to be adopted to meet the requirements and concluded that e-education could transform India into a vibrant country. **Dr Sanjay Singh**, In-charge ICT & e-learning, ILLI, Delhi University, in his presentation on "Discussing the regulatory structure of the higher education system in India", highlighted the problems of e-learning in the present scenario prevalent in the universities. He presented the e-

learning framework and facilities created in Delhi University's Institute for Life Long Learning for training of teachers for effective ICT educational use. He said that content creation, faculty's training infrastructure, faculty development, on-line mode of teaching, were some of the virtual learning environment facilities created in the ILLI Institute. The last speaker in the session was **Prof K Subramanian**, Director & Professor, ACIIL, IGNOU, who spoke on, "Synergizing Education & Development IGNOU's Vedyadhara, Education Grid, NKN and NME-ICT way forward for Quality Education for all". In his presentation, he highlighted 21<sup>st</sup> Century learning systems which showed more private participation and globally successful alliances. He elaborated the functioning of the Community Knowledge Enterprises (CKE) and Vedyadhara Open Education Framework of IGNOU. He was of the view that CKE would provide quality in education as well as inclusive education opportunities for all aspiring youth.

**ISSUES & CHALLENGES** were in terms of resources, tools & technologies, development of contents, knowledge centres to host various portals, network security, connectivity, ability in terms of scalability, quality, access, reliability, sustainability, affordability, inclusiveness, course management, employability, global competition, adequate number of schools, colleges, teachers and up gradation of skills.



Prof R K Arora, Moderator Technical Sessions, receiving a memento from Shri R K Gupta, President IETE

## RECOMMENDATIONS

- The country needs a comprehensive time bound National Virtual Education Plan (NVEP) on similar lines of National Broadband Policy (NBP), National e-Governance Plan (NEGP), etc.
- The ownership of NVEP should be with MHRD. The NVEP must be implemented with execution strategy in place including funding. PMO should oversee it.
- Missions such as National Knowledge Network (NKN) & National Mission on Education (NME)-ICT require enormous determination and vision continuity.
- India needs to rapidly enhance its present dismal Gross Enrolment Ratio (GER) of 12.6 % by a time bound implementation of NVEP. Average GER in the developed world is around 40 %. GER is a key to realize higher GDP growth.
- Effective measures to be taken to establish ICT Infrastructure and connectivity in all educational institutions and create maintenance support mechanism.
- National Optical Fiber Network (NOFN) needs to meet the end-to-end connectivity requirements of NVEP.
- Efforts should be made to change mind-set as ultimately it is the mindset of the stake holders which requires a paradigm shift – ICT is only a tool and it is not a replacement for teachers, pedagogy etc.

- For e-Education to flourish, provisions should be for: a) virtual class rooms; b) tele education portals; c) replication/extension of 'Centres of Excellence'; d) content in a digital format; e) question-answer session to be On-Line; and f) tele-education portals in local language.
- Capacity building and training of teachers to provide ICT enabled teaching.
- Collaboration, interaction and sharing need to be considered as important paradigms for quality education and innovation. Government should act as a catalyst.

## New IETE Centres at Kozhikode, Surat and Jalandhar Inaugurated

IETE with its commitment to promote Science & Technology in Electronics, Telecommunications & IT, opened new IETE Centres at **Kozhikode, Surat and Jalandhar**.

On 5<sup>th</sup> Jan 2012, the **Sub-Centre at Kozhikode (60<sup>th</sup> Centre)** was inaugurated, under the aegis of Palakkad Centre, by **Shri R K Gupta**, President IETE at KMCT College of Engineering, Mukkom. Other notable personalities present on the occasion were: Shri K S Prakash Rao, Vice-President & South Zone Coordinator; Dr Surendra Pal, Chairman, M&CC; Shri C K Haridas, Founder Chairman, Palakkad Centre; Dr V B Panicker, Chairman IETE Sub-Centre and Shri P Janardhanan, Vice-Chairman Sub-Centre. Shri C K Haridas elucidated the evolvement of Kozhikode Sub-Centre and appreciated the positive approach of the Governing Council members in achieving the vision. The President was felicitated with their traditional culture of Ponnada on the occasion. He appreciated the efforts undertaken by Shri C K Haridas and Dr V B Panicker for working towards realisation of the dream of opening Kozhikode Sub-Centre.



Kozhikode Sub-Centre

Another **IETE Sub-Centre at Surat, the 61<sup>st</sup>** in series, was inaugurated on 24<sup>th</sup> Jan 2012 by the President IETE, **Shri R K Gupta**; **Smt Smriti Dagur**, Governing Council Member and Zonal Coordinator (West); **Prof S K Shah**, Chairman, Vadodara Centre, under the dynamic chairmanship of **Shri Utpal Mistry**, Founder Chairman of Sub-Centre; Dr U D Dalal, Hony Secretary; Prof B R Taunk, Hony Treasurer, IETE Sub-Centre and other members of Executive Committee. This new Sub-Centre will meet a long standing demand of engineers, academicians and budding engineers of Surat. Gujarat already has three Centres, one each at Ahmedabad, Vadodara and Rajkot.



Surat Sub-Centre

**62<sup>nd</sup> Centre of IETE at Jalandhar** was inaugurated by the President IETE, **Shri R K Gupta** at IT Park, Dr B R Ambedkar, NIT, on 22<sup>nd</sup> Feb 2012. The Guest of Honour on the occasion was **Prof (Dr) Samir Kumar Das**, Director, NIT, Jalandhar. The other dignitaries present at the inauguration were: Dr Surendra Pal, Chairman, M&CC; Wg Cdr D N Misra (Retd), Zonal Coordinator (North); Shri V P Giridhar, Chairman IETE Chandigarh Centre; Shri S R Aggarwal, Secy General, IETE HQs; Prof (Dr) R K Sarin, Chairman IETE Jalandhar Sub-Centre and Shri Udham Singh, Hony Secy of the Sub-Centre.



Jalandhar Sub-Centre

## Report on the 16<sup>th</sup> Sir CV Raman Memorial Lecture

The 16<sup>th</sup> Sir C V Raman Memorial Lecture on, “Advanced Quantum Electrical Metrology” was organized on 28<sup>th</sup> Feb 2012 at IETE HQs, New Delhi. Eminent Physicist, **Prof R C Budhani**, Director, National Physical Laboratory, New Delhi, delivered the Memorial Lecture. **Shri R K Gupta**, President IETE, presided over the function. **Shri H O Agrawal**, Vice President & Chairman, Technical Programmes Committee delivered the welcome address and introduced the Lecture. **Shri S R Aggarwal**, Secretary General, IETE, proposed the vote of thanks. Besides students and delegates from various organizations, the Lecture was attended by Past Presidents of IETE, Distinguished Fellows, Honorary Fellows and Members of IETE Governing Council. The function was well received and appreciated.

In his lecture, Prof R C Budhani emphasized on the requirement of quantum electrical metrology and updated the participants on the latest research activities to realize the electrical and other standards with required measurement uncertainty levels. Tracing down the history of measurements and calibrations since the Egyptian Era, Prof Budhani informed about the “Metre Convention” held in Paris in 1875, that established the International Committee for Weights and Measures (BIPM) to act in common accord on all matters relating to the Fundamental Units of Measurements. Highlighting the activities of the National Physical Laboratory, he said that the Laboratory was the Premier Research Laboratory in India in the field of Physical



President IETE presenting the memento to the Chief Guest

Sciences and had developed core competencies in Primary Standards and Apex Level Calibration. He added that the responsibility to realize, maintain and improve the seven basic units of measurements was entrusted to NPL which also served as the National Metrology Institute of India. He explained in details the modern instrumental set-ups of the basic units of measurement of Kilogram, Metre, Second, Mole, Ampere, Kelvin and Candela. He informed that NPL had developed, maintained and upgraded these primary standards to meet the International requirement of accuracy and uncertainty in measurements. He said that BIPM had recommended using the “Josephson Effect” and the “Quantum Hall Effect” to develop voltage and resistance standards respectively. Now, as part of the advanced quantum electrical metrology, the “Single Electron Tunneling Effect” had opened up new possibilities for developing a current standard also. Prof Budhani informed that NPL had been maintaining these Quantum Standards for voltage and resistance and Quantum Standard for current was being developed. He highlighted the future research activities in precision measurements being taken up by NPL in the fields of energy, smart electrical grids, nanotechnology, biotechnology, security related metrology and metrology in Chemistry. Prof Budhani concluded his address by emphasizing on the requirement of young engineers/scientists in various scientific and engineering fields for R&D activities to take up the challenges of development, maintenance and continuous upgradation of the precision primary standards to keep pace with the international scenario in quantum metrology.



Seen in the photograph from L to R - Shri H O Agrawal, Chairman TPC; the Chief Guest, Prof R C Budhani, Dir, NPL; Shri R K Gupta, President IETE & Shri S R Aggarwal, Secy Gen IETE

## 2<sup>nd</sup> IETE Students' Day -2012

IETE Students' Day was institutionalized last year under the able leadership of Shri R K Gupta, President IETE, resulting in overwhelming response from IETE Centres/ Sub-Centres all over the country. The aim was to dedicate a day exclusively for IETE Students fraternity and effort was to motivate and inspire them. The 2<sup>nd</sup> IETE Student's Day was hosted this year on 1<sup>st</sup> Feb 2012 by the following Centres/ Sub-Centres. It focused on a technical competitive environment amongst the students apart from fun related activities. The celebrations at IETE Delhi Centre and Thiruvananthapuram Centre were witnessed by President IETE along with some Governing Council Members and dignitaries. A brief account of Students Day Celebrations by the Centres/Sub-Centres are given below:-

### Ambala

IETE Students' Day celebrations were held at the Ambala Sub-Centre on 01 Feb 2012 at the E-Max Polytechnic, Ambala City. **Dr Anil Jain**, Chairman, Sub-Centre, in his address stated that the students would get advantage of good faculty, resource persons and technical lectures through the rich reservoir of IETE professionals at the Sub-Centre. He urged desirous students to join IETE for continual knowledge upgradation while working in the industry or elsewhere, which is only at nominal charges as compared to a regular university college course. A presentation was given by Shri S S Solanki, Hony Secretary, presenting the vast academic, scientific and technical human reservoir available with IETE. A technical quiz contest was organized to mark the celebrations and winners were awarded cash prizes. **Shri J S Arya**, Treasurer, Sub-Centre, delivered an inspiring talk on 'Total Quality Management and Competitiveness in the Global Scenario'. He opined that with globalization the students must demonstrate high order of quality in their professional works. Dr S K Sharma, Principal Director, E-Max Institute of Engineering and Applied Research, urged the students to work more on industry related projects. A mutual interaction between the members of Ambala Sub-Centre and Ambala Scientific Instruments Manufacturers' Association (ASIMA) was held on the occasion.

### Bhopal

The IETE Students' Day was observed at the Centre by arranging a Technical Paper Presentation Contest for students from different engineering colleges like Scope College of Engineering; J P Institute of Engineering & Technology, Guna; Gyan Ganga Institute of Technology; Laxmi Narayan College of Technology; Bansal College, Mandideep. Winners were felicitated with prizes. Senior Fellow Members felicitated on the occasion were: **Shri T C Sen; (Retd) Gp Capt A B Mehta; Dr M G Sharma and Dr T K Bandopadhyay**. The function had good attendance and the students met with Exec Committee members for problems like coaching classes, availability of latest text books and solutions of latest question papers.

### Chandigarh

IETE Students' Day was organized on 1<sup>st</sup> Feb 2012. **Shri VP Giridhar**, Chairman IETE Chandigarh Centre, in his address gave the background of the Centre and its activities. Shri D S Chhabra, Hony Secretary, IETE Chandigarh, read out the message of the President, IETE. A technical lecture on "Environmental Pollution & Monitoring Instruments" was delivered by **Prof Basudeo Prasad**, HoD, ECE, Indo Global College of Engg and Tech, Abhipur, Mohali. A technical quiz competition was organized in which eight teams from different engineering colleges- Indo Global College of Engg and Tech,

MMU Mullana; Chitkara University, Rajpura; Guru Nanak Engineering College, Ludhiana and IETE Chandigarh Centre, participated. In three rounds of quiz competition, various questions were asked by Shri Sanjeev Kumar and Shri Sukhwinder Singh, CSIO, Chandigarh. The Centre Chairman awarded the mementos to the winning teams and distributed participation certificates to all the participants. The first three winners were; **Pragya Khurana, Manisha Utreja** from Chitkara University, Rajpura; **Dharitri & Dheeraj** from Indo Global College of Engg & Tech, Abhipur and **Jaskanwaldeep Singh, Harsimranjeet Singh, Navpreet Singh, Tanu Wadhwa** from Guru Nanak Dev Engineering College, Ludhiana, respectively.

### Chennai

Discussing with students on IETE Students' Day, the Centre Chairman & Hony Secretary, assured them to conduct the coaching classes if the strength of the students existed. Other problems regarding broadband connectivity for library and computer hall, downloading of lectures and distribution of lectures through DVDs, were also discussed. **Mr A Rajesh Kumar, Mr Mohamed Abubacker & Mr Nagaraj** were honoured for their meritorious success in IETE Exams on this day.

### Jabalpur

The Centre celebrated IETE Students' Day. The winners of the technical events: **Shri Aditya Narayana, Shri Santosh Pandey** were given cash prizes by Shri Jamuna Prasad, Chairman of IETE Jabalpur Centre. A technical lecture by Mrs Jyoti Gupta, Hony Treasurer, was also organised.

### Kanpur

IETE Students' Day was celebrated on the topic "Interfacing Human and Digital World" on 1<sup>st</sup> Feb 2012 at Dr Ambedkar Institute of Technology for Handicapped (AITH)-Kanpur. Director AITH, **Shri Gaurav Chandra** was the Chief Guest, on this occasion. Other engineering Institutions of Kanpur that participated in the celebration were: Harcourt Butler Technological Institute; The University Institute of Engineering & Technology; Kanpur Institute of Technology and Indus Institute of Technology & Management. The focus was on the human- machine interface which otherwise would impede the progress and could lead to many unexpected problems. If proper understanding is developed at the students level, they would bridge the prevailing knowledge gap and serve as a very useful link for the society when they enter the professional world. Nearly 100 students from above institutions participated in the quiz, poster presentation and paper presentation. Interesting case histories were depicted in the poster competition. Papers were presented on very

relevant topics like Zigbee Internet Gate Way, X-bee based temperature monitoring, voice recognition in wheel chair movement control, terrestrial trunk radio, fiber bragg gratings on fiber optics etc. Response from students was excellent and they showed a high degree of intelligence and creativity. Winners were awarded the prizes in the categories of posters, quiz, and paper presentation. The address of the Chief Guest, Shri Gaurav Chandra was highly inspiring.

### Kochi

**IETE Students' Day** celebration at Kochi Centre was held on 1<sup>st</sup> Feb 2012. In this connection a students' meet was organized, which was presided over by **Shri B Parameswaran**, Chairman, IETE Kochi Centre. The Chief Guest **Shri I I George**, Dy Director General (Engg), All India Radio, Alleppy, delivered a technical talk on "**Broadcasting- Audio/Video**" a highly informative and useful talk for the student participants. Prof (Dr) M V Rajesh, Hony Secretary, IETE- Kochi Centre, delivered the welcome address. The Chairman, Shri B Parameswaran in his address advised the students to concentrate more on their studies apart from improving their communication skills to enable them get suitable openings. The senior members honoured during the function were: **Shri N M Kumar** (F014601 L) and **Shri P Gopinathan-** (F022762 L). An interactive session on practical, project/ seminar piloted by Dr M V Rajesh followed. The session was informative and useful to the students, who appreciated the attempt. Cultural activities by students were followed by light music. Mappila pattu was presented which is unique for its North Kerala touch. Vote of thanks was proposed by Dr M V Rajesh. National anthem was recited by a team of students.

### Mumbai

**IETE Students' Day** on 1<sup>st</sup> Feb 2012 was presided over by **Shri P B Walinjar**, Hony Treasurer, who informed the importance of the day and read out the message from President, IETE, to the students. IETE Alumni and Chief Guest **Maj R P Singh** and **Shri N S Kaintura** were felicitated by Shri Tiwari, Senior Fellow member of IETE. Shri N K Karnani organized a Quiz competition as a part of the celebration, followed by student interaction hour. Students' representative, Shri Jagrut Koli briefed students about latest changes in the rules. The Chief Guest distributed the prizes to the winners of the quiz.

### Palakkad

The **Students' Day** celebration was held on 1<sup>st</sup> Feb 2012 by organizing competitions for students. Cash awards were given to the winners.

### Patna

IETE Patna Centre celebrated **IETE Students' Day** on 1<sup>st</sup> Feb 2012. The meeting was presided by **Dr N K Goswami**, Former Chairman, IETE Patna Centre. Dr Lalan Singh, the Centre Chairman, acquainted the students about importance of the day and efforts of the Centre in making the activities student centric. President's message was read by Shri Shyam Prakash Vats, MIETE. The notable persons present were: Dr Arun Kumar, Immdt Past Chairman; Dr Hari Sumiran Singh, Hony Secretary; Dr Ashok Ghosh, HOD, EWM, A N College, Patna & a large number of students. The vote of thanks was proposed by Shri Amitabh Kumar, Treasurer, IETE Patna Centre.

### Shimoga

The **IETE Students' Day** was celebrated by the IETE Shimoga Sub-Centre on 01 Feb 2012. The function was presided by **Dr R Srinivasa Rao Kunte**, Chairman, IETE Shimoga Sub Centre and Principal, JNNCE. In his address he highlighted the active participation of ISF members in publishing technical papers in IETE Journal of Education meant for students. Prof H K Harish, Hony Secretary, in his speech requested the members to give wider publicity to IETE courses. The message from Shri R K Gupta, President, IETE, was read out. An interactive session with IETE Student members was conducted in which the student highlighted their problems and gave suggestions to fulfill the objectives of the IETE. The function concluded with a vote of thanks by Ms Nisha H V, ISF member. Prof S Amarappa, Hony Treasurer and other EC members of IETE Shimoga Sub- Centre, were also present.

### Thiruvananthapuram

The Centre celebrated the **Students' Day** as well as organized a **Students' Meet** on 03 Feb 2012 during the visit of IETE President, **Shri R K Gupta** to the Centre with other senior Committee members. The Centre had planned some competitions and games for the students. The response was overwhelming. Shri R K Gupta, President IETE; Prof C Murali, Chairman, Academic Committee; Prof A K Saini, Chairman, Board of Examinations; Prof K Laxminarayana, Chairman, Students Interaction Cell, addressed the students and interacted with them listening to their grievances. Prizes were distributed to the winners by the President and other dignitaries. Shri S Girish Kumar, Hony Secy, IETE Thiruvananthapuram Centre, concluded the programme with vote of thanks.

### Vijayawada

**IETE Students' Day** was celebrated on 1<sup>st</sup> Feb 2012 by organizing a **Student Technical Paper Contest** for IETE Students and ISFs within the jurisdiction of Vijayawada Centre. **Shri D Ramakrishna**, Chairman IE (I), Vijayawada and Past Chairman, IETE Vijayawada Centre and Managing Director, M/s Efftronics Systems Pvt Ltd, Vijayawada, was the Chief Guest. Two alumni student members- **Shri VVM Krishna**, (AM088821L), Asst Prof ECE, Tirumala Engg College, Jonnalagadda, AP and **Smt S L V Siva Jyothi**, (AM117298L), Asst Prof ECE, Vijaya Inst of Tech Enekepadu, Vijayawada, were felicitated during the occasion. Winners of the technical paper contest were: **Shri M Satyanarayana Murthy & P Gopika Rani Alekhya**, Sir C R R College of Engg, Eluru and **Ms K Lakshmi Mohini & T Sasidhar**, Guntur Engg College of Yanamadala, Guntur.

### Visakhapatnam

**Shri SV Rangarajan**, Director, NSTL and Chairman, IETE Visakhapatnam Centre, addressed the students of Visakha Institute of Technology and Science, on **IETE Students' Day** celebrations on 3<sup>rd</sup> Feb 2012. He said that creativity and enthusiasm were the keys to success in the competitive environment. A technical lecture on "**Embedded systems and networking**" was delivered by **Shri Abraham Varughese**, Scientist, NSTL and Hony Secretary IETE Visakhapatnam Centre. Principal, Dr BV Ramanamurthy was also present.

## IETE STUDENTS' DAY CELEBRATIONS





## AT IETE CENTRES/SUB-CENTRES/ISFs



## Study Centre at Gurgaon

A Study Centre at Gurgaon, was inaugurated on 14<sup>th</sup> Jan 2012 by the Chief Guest, **Shri R K Gupta**, President IETE. Expressing his gratitude to all the members for inspiration and constant support, he said that the Study Centre would be committed to student fraternity of Gurgaon & nearby areas and offer various educational and training programs, courses, seminars, workshops, lectures, technical consultations, etc. The study centre would be under the aegis of IETE Delhi Centre. The Executive Committee Members of IETE Delhi Centre and a few senior Members were present on the inauguration. **Shri H O Agrawal**, Vice President; **Prof (Dr) A K Saini**, **Shri P K Singhal**, Governing Council Members; **Lt Col Balraj Anand**, Immdt Past Chairman, Delhi Centre; **Shri S R Aggarwal**, Secretary General IETE; **Wg Cdr (Retd) K C Bhardwaj**, Chairman, **Shri Sharad Singh**, Hony Secretary, Delhi Centre, addressed the students on the occasion. Students were informed about the possible commencement of the classes, registration in theory classes and lab sessions. The President, Shri R K Gupta interacted with the students and visited the class rooms, electronic lab and the library.



*Shri R K Gupta, President IETE, inaugurating the Study Centre*

## WELCOME NEW IETE ORGANISATIONAL MEMBERS

- \* **AISECT University** is the first private University in **Bhopal, MP**, which was launched in 2011 by an act of Govt. of MP and established as per UGC norms with approval of regulating bodies like AICTE, NCTE etc. This University has been founded by AISECT (All India Society for Electronics and Computer Technology). It imparts quality education at UG, PG and Doctoral level in field of engineering, science, commerce, education, management, language and social sciences, since July 2011. Branches available in engineering are: Civil, Mechanical, IT, Electronics & Communication and Computer Science and Engineering. Frequent workshops, seminars, expert lectures and conferences by the University in association with organizations like IETE, CSJ, ISTE, AIMA, HCL, NASSCOM etc. underlines University's priority for holistic academic and professional growth of its stake holders. Prof V K Verma with vast experience in academics, education, administration and research, is the first Vice-Chancellor of the University. Shri S K Chaoubey, a renowned academician, educationist, entrepreneur, social activist and a poet of national fame is the Chancellor of AISECT University. The official website of the University is [www.aisectuniversity.ac.in](http://www.aisectuniversity.ac.in).
- \* **Alpha College of Engineering and Technology (ACET), Khatraj, Ahmedabad**, was established by "Alpha Education Foundation" in the year 2009 with an aim to be a leading Institution for research and engineering study, pursuing knowledge in both fundamental and applied areas. ACET collaborates closely with business and industry in promoting technological innovation and economic development. Approved by AICTE, New Delhi & affiliated to Gujarat Technological University, Ahmedabad, ACET offers graduate programs (Bachelor of Technology) in five fields of Engineering viz., Electronics & Communication, Computer, Mechanical, Information Technology, Civil and Post-Graduate program in Computer Engineering. College is facilitated with state-of-the-art laboratories and library is stacked with 10,000 books and national & international journals. College also has the facility of e-library of books and journals. Around 1200 graduate and post-graduate students are being groomed here to excel in various field. Students are also trained in communication skills and personality development programs.
- \* **Gates Institute of Technology, Gooty, A P**, was established by Sri Gajjala Raghunath Reddy Education Trust, in the year 2001. The Institution's programmes aim at improving the professionals enabling them to become highly competent individuals. GATES pioneered in producing quality engineers of global standards and is rated as number one in Rayalaseema area among the JNTUA affiliated colleges. It is the only college in South to run on solar energy and subsidy of 30% granted by MNRE. The college has state-of-the-art facilities at par with AICTE and JNTUA – Anantapur norms. It has well qualified and experienced faculty members. Around 70 companies both core as well as software companies have conducted campus drives in the institute.
- \* **Guwahati Institute of Technology (GIT), Bamunimaidan, Guwahati**, is one of the premier institutes of technical & management education in Northeast India, established in the year 1999. In view of their sincere efforts to provide quality education, the IGNOU has selected GIT for holding regular mode of technical courses (VIEP) in entire Assam. GIT is an authorized study centre of Karnataka State Open University and A&C centre of EILM University, Sikkim. GIT is also an Institutional member of Institution of Civil Engineers (India), authorized learning centre of Avagmah Business School, Bangalore; Institute of Tourism & Hotel Management, Kolkata; 24X7 Learning Pvt Ltd, Bangalore. Now GIT is an ISO 9001: 2008 certified Institution. This is the first educational institute in Satriya with environment like gurukul.

## News From Centres

The major technical activities/programmes reported from various IETE Centres/Sub-Centres are as follows:-

### Bangalore

The Centre celebrated **IETE Foundation Day** on 2<sup>nd</sup> Nov 2011 with huge participation from student's community. Shri D Rajagopal, Hony Secretary, gave the welcome address. AVM AS Murthy, read out the message from the President IETE, Shri R K Gupta. Senior Members felicitated on this day were: **Shri Srinivas Achar**, DIISc (Retd), **AVM AS Murthy** and **Shri K R Sridharmurthy**, who spoke of their career, association with IETE and also gave some valuable tips and advice to the students. The function was followed by the Dr N V Gadhadhar Memorial Award Presentation. The Awardee, **Dr Kaushik Sinha**, H P Labs, delivered a lecture on **"Fast Deterministic Broadcasting and Gossiping."** **Dr M H Kori**, Technical Director, Lucent –Alcatel (Retd) spoke on "Environmental Technologies: Future of India". Wg Cdr H R Parthasarathy, Centre Chairman, addressed the student members. Shri AB Srinivasan, Hony Treasurer, proposed vote of thanks. Cultural programme comprising of singing and dancing was also organized on the occasion.

### Bhopal

The Centre celebrated the **Republic Day** at the premises on 26<sup>th</sup> Jan 2012. The Indian tricolour was hoisted by Er Manoj Mishra, Centre Chairman, in the presence of Prof Virendra Singh Chaudhary, Centre Treasurer and IETE Students, Bhopal.

### Chandigarh

A technical talk on **"Total Quality Professionalism – Industries' Expectations and Internet Protocol"** was organized on 6<sup>th</sup> Jan 2012 jointly by IETE and CSI, Chandigarh. The distinguished speaker on the occasion was **Prof M N Hoda**, Director, Bhartiya Vidyapeeth Institute of Management, New Delhi. It was attended by over 50 corporate and student members. The talk covered quality concept of the engineering graduates as expected by the industry for placement purposes. The talk was highly informative and covered step-by-step details of the procedure to be adopted /followed by the candidate to prepare themselves for the placement interview, besides covering internet protocols. It generated lot of interaction amongst the participants and was well appreciated.

### Chennai

- A technical lecture on **"Cloud Computing-An overview"** was held on 25<sup>th</sup> August 2011 by **Shri J Santhana Krishnan**, Dy Gen Manager (Retd), BSNL, Tamil Nadu.
- A one-day symposium 'eSAC-11' was organized jointly by the Centre & Ganadipathy Tulsi's Jain Engineering College, Vellore, on 5<sup>th</sup> Nov 2011. **Shri V Chinnappiah**, Hony Secretary, Chennai, inaugurated the function and delivered a lecture on **"From 1G to 4G Mobile Technology"**.
- A technical seminar on **"Technology in Healthcare"** was organized on 18<sup>th</sup> Nov 2011 by the IETE Chennai Centre &

Hindustan Institute of Technology & Science, Dept of ECE, Chennai. The presidential address was delivered by **Dr G Ravindran**, Prof, ECE Dept, while the overview and introduction of the speakers were presented by Ms A L Vallikannu, Asst Professor, ECE Department. **Shri Manohar**, Chief Manager, Siemens Ltd, Chennai, delivered the key note address on "Bio-Medical Instrumentation" in Session-I. **Dr M Rama Subbha Reddy**, HOD, Applied Mechanics and Head, Bio Medical Engineering Division, IIT, Chennai, shared the knowledge on the principles of "Bio-Signal processing and Medical Image processing" in Session II.

- **IETE Foundation Day** was celebrated on 29<sup>th</sup> Nov 2011. The Chief Guest **Smt Hema Gopal**, Vice President, Global Head, Tata Consultancy Services, delivered a lecture on **"Environmental Technologies: The Future of India"**. Shri S Muruganandam, Chairman, Chennai Centre, read out the message from President IETE. About 16 Senior Members were honoured with mementos on the occasion. To encourage the ISF activities, reports were called from all ISFs under the jurisdiction of Chennai Centre and the best ISF Awards were bagged by Sri Sairam Engineering College, Velammal College of Engineering and Prathusha Institute of Technology & Management. Active ISF's Awards were presented to Arupadai Veedu Institute of Technology, Paiyanoor and Ganadipathy Tulsi's Jain Engg College, Vellore. Shri V Chinna Pappiah, Hony Secretary, proposed the vote of thanks.



*IETE Foundation Day at Chennai*

### Coimbatore

The following technical activities were held by the Centre:-

- **International/ National Conferences**
  - An **International Conference on 'Communication Technology and System Design (ICCTSD 2011)'** was held during 7-9 Dec 2011. **Prof K Gangadharan**, Chairman of IETE Coimbatore

Centre, presided over the conference. It included five invited talks by eminent researchers from Finland, USA and IIT Madras. Invited sessions inspired the participants working in VLSI and Embedded System Engineering, provided a picture of recent advancements in the field of Parallel Computing Networks and served as an eye opener for those working in the area of wireless communication, revealing what a future wireless system should be.

- Another **International Conference on “Simulation, Modeling and Analysis (COSMA 2011)”** was jointly organized by the Centre, Mechanical Engineering Dept of Amrita School of Engineering, Coimbatore & National Institute of Technology (NIT) Calicut, from 14-16 Dec, 2011. There was a two-day pre-conference workshop conducted on 12-13 Dec, 2011 by NAFEMS, an International Association for Engineering Analysis Community on “Finite Element Methods and Practical Stress Analysis”. The speakers were experts from their fields. The inaugural address was delivered by **Dr Kurien Issac**, Indian Institute of Space Science and Technology (IIST), Thiruvananthapuram. The papers were categorized into eight streams and were presented in fifteen sessions and the best paper was selected from each stream. A panel discussion on the topic “Simulation, Modeling and Analysis- Are they getting the right emphasis in today’s Engineering Curriculum,?” was held. Stalls from Holmarc Optical Instruments, National Instruments and Bharat Fritz Werner, were also arranged in an exhibition. The post conference workshop was held at NIT Calicut, on the 17<sup>th</sup> Dec, 2011.
- A two-day **National Conference on Power Electronics in Sustainable Energy Development (NCPSE 2011)** was inaugurated by **Dr K Gopakumar**, Chairman, Centre for Electronic Design and Technology, IISc, Bangalore, on 19<sup>th</sup> Dec, 2011. **Prof K Gangadharan**, Chairman, IETE Coimbatore Centre, presided over the conference. **Dr T R Padmanabhan**, Immdt Past Chairman, IETE Coimbatore Centre, delivered the theme address. Dr K Gopakumar presented his key note lecture on “Recent Trends in multilevel inverter fed drives”. This was followed by a tutorial session conducted by Dr Debaprasad Kastha, IIT Kharagpur, on the topic, “Optimal Design and Control of Isolated Hybrid Wind-Diesel Electrical Power Generation Systems”. On the second day of the conference, invited lectures were given by **Ms Fathima K A**, Dir, CDAC, Trivandrum, on “Power Quality Improvement by STATCOM implementation” and **Prof Sujay Basu**, Director, CEEM, Kolkata on “Sustainable Energy Development”. Totally 22 papers were presented in seven parallel sessions in the areas of Power Electronics and Machine Drives, Renewable Energy Systems and Power Quality.

#### ➤ Workshops

- A four-day national workshop in “**Signal Processing for Biomedical Applications**” - 14 to 17 Dec 2011.
- A two-day workshop on “**Texas Instruments MSP 430**” - 19 & 20 Nov 2011.
- A **Free and Open Source (FOSS) Workshop** - 10 to 12 Oct 2011

- A workshop on “**Open Sources for Computer Vision and Image processing**” - 29 Sep- 12 Oct 2011.
- A one-day workshop on “**Research Issues in Image processing**” - 18 Nov 2011.

#### ➤ Symposia

- A month long student symposium, “**COGITO**” - 12 Sept- 14 Oct, 2011.
- Two day science awareness camp for Higher secondary students of Tamil Nadu, “**Vigyan 2011**” on 2-3 Dec, 2011.

### Hyderabad

- A two-day short-term course on “**Data Warehousing & Data Mining**” was organized during 7-8 Jan, 2012 and inaugurated by **Dr Cynthia Bantille**, Research Director, ICRISAT, Hyderabad. **Dr K Lal Kishore**, Chairman, IETE Hyderabad Centre, the Chief Guest for the Valedictory function, distributed certificates to the participants on the second day. A total of 90 students participated in the course.
- The Centre organized another two-day short-term course on “**Embedded Systems**” on 28-29 Jan, 2012, which was inaugurated by **Dr K Lal Kishore**, Chairman, IETE Hyderabad Centre. **Prof P S Sarma**, Vice-Chairman, IETE Hyderabad Centre, was the Chief Guest for the Valedictory function and distributed certificates to the participants. A total of 295 students participated in the course.
- The **Republic Day** was celebrated on 26 Jan, 2012 at IETE Hyderabad Centre by hoisting Indian tricolor. Shri DSRBN Harnatha Baba, Hony Secretary, IETE Hyderabad Centre, hoisted the flag to inspire respect for the flag. The others with him were Executive Committee Members, Staff and Students.

### Kanpur

- **IETE Foundation Day** celebrations were held on 2<sup>nd</sup> Nov 2011. **Prof S C Srivastava**, Dy Dir IIT-Kanpur, was the Chief Guest on the occasion. **Prof Mukesh Sharma**, Dept of Civil Engg, IIT, Kanpur, the keynote speaker, spoke on the theme concerning Environmental Technologies on “**Managing Climate Control through control of Elemental Carbon**”. He touched upon various aspects of environmental pollution and technologies needed to be adopted by the society to safeguard the interest of future generations. On the occasion **Dr R S Anand** was honoured along with some meritorious students who were awarded certificates. The others who were felicitated for initiating ISF activities in their respective institutions were: Dr Krishan Raj, HBTI; Er Somendra Shukla, KIT; Er Richa Verma, UIET; Asstt Prof Chandra Prakash Verma, AITH and Er V K Dixit, IITM.
- A technical lecture on “**Technology behind Nano Satellite - JUGNU**” was delivered by **Prof N S Vyas**, Head, Deptt. of Mechanical Engg & Project JUGNU, Coordinator, IIT-Kanpur, and his team members on Jan 15<sup>th</sup> 2012. **IIT Kanpur** developed India’s first nanosatellite which was launched into orbit on 12<sup>th</sup> October 2011 by ISRO’s PSLV C-18 launch vehicle. Jugnu weighs less than 3 Kg (10 cm x 10 cm x 32 cm in size) and is

working with 3 Watts of power provided by its body mounted solar panels. The satellite comprises nine subsystems - six for housekeeping (Attitude Determination and Control System, Communication, Data Processing and Handling, Power, Structure and Thermal Control System) and three payloads (GPS, Imaging and IMU). Additionally, another system - Ejection Mechanism has been designed for separation of the satellite from the launch vehicle. A Ground Station operating in UHF/VHF (amateur Radio) bands has been set up at IIT Kanpur, for controlling and monitoring the satellite. Jugnu also broadcasts its health as a radio beacon. This blinking radio signal is being received by amateur HAM community around the world. Jugnu has two On Board Computers (OBC)-OBC-1(MSP 430) and OBC-2(ARM 7 core) for central processing, control and scheduling satellite operations. Few salient features of Jugnu are its three-axis stabilization, full duplex communication with ground station, software based Triple Modular Redundancy for memory, flexible power distribution, distributed processing, field reprogramming, modular design. Integration of various subsystems offers technological challenges related to System Engineering, Power Systems, Communication Systems, Electronics Design and packaging. These issues and some other related innovations during the development of Jugnu, were presented during the talk.

## Mumbai

IETE Mumbai Centre organized the 1<sup>st</sup> **Dr P B Parikh Endowment Lecture** on 17<sup>th</sup> Jan 2012. **Dr Vijay Khole**, Academic Advisor, Kohinoor International University, and Ex-Vice Chancellor, University of Mumbai, delivered a talk on “**Accreditation Process of Professional Institutions: Industry Expectations**”. **Shri R K Gupta**, President, IETE, presided over the function. **Dr P B Parikh** along with his family members graced the occasion and the others present were: Shri P P Malhotra, Chairman, Industrial Co-ordination Committee; Dr J W Bakal, Centre Chairman, IETE; Dr K T V Reddy, Immt Past Chairman; Prof (Ms) Ashwini Kunte, Hony Secy and Shri P B Walinjkar, IETE Hony Treasurer. Dr Bakal briefed about the activities of IETE Mumbai Centre. Shri P P Malhotra conveyed the purpose behind the endowment lecture. Shri R K Gupta felicitated Dr P B Parikh for his contributions and expanding IETE activities in Mumbai region. Reliving his experiences, Dr Parikh related his historic association with IETE to the audience. Shri M S Thomas, Suptd Engineer, Dordarshan Kendra, Worli, covered



Dr KTV Reddy welcoming Shri R K Gupta, President IETE



Dignitaries on dais

the news for the evening telecast. Prof Ms Ashwini Kunte, Honorary Secretary of IETE, Mumbai Centre, proposed a vote of thanks.

## Nagpur

**Dr Ravi Kshirsagar**, Fellow IETE and Ex-Executive Member of IETE Nagpur, was felicitated by the Centre on 14 Jan, 2012 on being elected as Dean, Faculty of Engineering & Technology, RTM Nagpur University, Nagpur. Expressing his views on the occasion, he said that there was a need of penetration of IETE in the form of ISFs in the engineering colleges under Nagpur University.

## Palakkad

- An article on IETE by **Shri C K Haridas**, Immdt Past Chairman, Palakkad, was published in the National Daily ‘The Hindu’ on Nov 11, 2011. IETE Members were also present during the demonstration.
- A two-day national seminar on “**Energy and Environmental Management**” was conducted on 20-21 Jan 2012 under the joint auspices of Palakkad Sub-Centre and EEE Dept of NSS College of Engg, Palakkad. It was inaugurated by **Prof K R Chandrasekara Pillai**, Principal, and the keynote address was delivered by **Dr K K Sasi**, Vice-Chairman and HoD of EEE Dept of Amrita Deemed University, Coimbatore. **Prof K I Geetha**, chaired the seminar. Prof C Pradip, Hony Secretray, IETE Sub- Centre and Convenor of Seminar, delivered the welcome address. Others who addressed on the occasion were: Shri C K Haridas, Founder Chairman, Palakkad Sub-Centre; Dr Geetha Varma and Sri Sujith. Prof C K Subramania Prasad, Prime Engg College; Shri P Rajan, Dy Chief Engg, KSEB and Principal, Tiruvananthapuram P A Azeez College of Engg, held classes on Energy Conservation and Management. Paper presentation and short skit on Power Energy, were presented by the college students.

## Visakhapatnam

- A technical lecture by **Shri Rakesh Nair**, Senior Application Engineer, M/s FTD Infocomm Limited, on “**Mems Design, Challenges and Tools for Mems Design**”, was held on 8<sup>th</sup> Dec 2011. He explained the advantages and applications of using MEMS, design process of MEMS, design tools for MEMS. Shri Abraham Varughese, Hony Secy, IETE Visakhapatnam Centre and Shri M Adinarayan Rao, Treasurer IETE, Visakhapatnam Centre, were also present.

## ***IETE Students' Forum (ISFs) : Activities***

- **ISF at EE Dept, KDK College of Engg, Nagpur**, celebrated Teachers' Day, Engineers' Day and Installation Day of ISF on **Sept 16, 2011**. All the teaching, non-teaching staff and students were present on the day.
- Asst Prof Prashant R Nair, Hony Treasurer of IETE Coimbatore Centre, inaugurated an **ISF at Info Institute of Engineering, Coimbatore**, on **Sept 30, 2011**. The function was presided by the College Secretary, Dr Chitra Manohar. A seminar on "Malicious Software" was also organized as part of the inauguration of the student forum.
- **ISF of PSG College of Technology, Coimbatore**, conducted a one-day national workshop on "Network Design Fundamentals" on **Oct 1, 2011** with about 50 participants. The resource person was Shri Thirunavukkarasu Arjunan, Senior Technical Associate, Avaya. The workshop was coordinated by Dr S Subha Rani, HOD-ECE and Ms R Venkateswari, ISF Coordinator of PSG College of Technology, Coimbatore.
- **ISF of ECE Dept of GITAM Institute of Technology, GITAM University, Visakhapatnam**, conducted a Quizzzy Logic in three rounds on **Oct 22, 2011**. A total of 70 teams from II<sup>nd</sup> Year and III<sup>rd</sup> Year of various sections were registered. It organized a visit to Prema Samajam, an orphanage in the suburbs of Visakhapatnam, on Dec 18, 2011, where chocolates and stationary items like pencils, erasers, pencil boxes were distributed along with interactions with the orphans. On **Dec 17, 2011**, another event entitled "Project-X" was conducted, which comprised of constructing a technical model from various materials provided to students fulfilling the chosen problem statement. In yet another event "Let Us C" a programme connected with programming of C, was arranged, wherein some C codes were shown on the projector and the participants were asked to write the output for them.
- A two-day national workshop on Wireless Sensor Networks-Applications and Challenges was conducted on **Nov 11-12, 2011** at **PITAM- Prathusha Institute of Technology and Management, Chennai**. Dr Padmanaban, Principal Consultant, NexGtech Wireless Systems Pvt Ltd, Chennai, conducted the workshop with participation from various Colleges. Dr N Gunasekaran, Principal, Dr Beulah Devamalar, Director, PITAM, participated in the inaugural function. An International Conference was also held on Advance in Electrical, Electronics Information, Communication – AEEICB and Bio Informatics on **Jan 24 - 25, 2012**.
- **ISF at ECE Dept of Model Institute of Engineering and Technology, Jammu**, was inaugurated on **Dec 06, 2011**. Shri Joy Ganjoo, Chairman, IETE Jammu Centre, was the Chief-Guest and others present included Maj Gen S K Sharma, AVSM and Prof Ankur Gupta, Joint Director, MIER Group of Institutions, Jammu.
- **ISF of Dept of ECE, SRKR Engg College, Bhimavaram, AP**, organized "Demonstration of Optical Fibre Stripping, Cleaving and Splicing" on **Dec 09, 2011** with the help of Shri P T Verma,, VC Vision. The ISF also conducted "IIM Admission Test CAT-Awareness Programme" on **Dec 17, 2011** with ISF Student Committee Members.
- A Guest Lecture on "Mobile Technology" by Shri C K Prem Kumar, Director Tech & CEO, Next Gen Technology, Bangalore, was organized on **Dec 16, 2011** at **M P Nachimuthu M Jaganathan Engineering College, Chennai, Erode**. It also conducted a one-day workshop on "Recent Trends in Optical Communications" on **Jan 23, 2012** by Dept of ECE. The Chief Guest was Shri S Anand, Technical Support Engineer, Falcon Electro-Tek Pvt Ltd, Bangalore.
- **ISF at Akshaya College of Engineering and Technology, Kinathukadavu**, was inaugurated by Asst Prof, Prashant R Nair, Hony Treasurer of IETE Coimbatore Centre, on **Dec 20, 2011**. The function was presided over by Dr K Thanushkodi, Director. Shri C Arunkumar, ISF Coordinator of IETE Coimbatore Centre, conducted a seminar on "Malicious Software" as part of the inauguration of the student forum.
- A guest lecture by Shri B Ramasubramanian, BE, Leading Design Engineer, Imagination Technologies, London, UK, on "CPU and GPU Architecture" was arranged by the ISF of **Kongu Engineering College, Perundurai, Erode**, on **Dec 21, 2011**.

- Technical activities of **ISF at BPC College Chapter, Piravom**, was inaugurated on **Dec 2011** by Prof Dr K C James Raju. He delivered a talk on Nanoelectronics concentrating on Nano Circuitry and Nano Lithography and on Higher Education programmes offered by University of Hyderabad.
- **ISF at Sri Venkateswara College of Engg, Sriperumbudur**, was inaugurated by Shri S Muruganandam, Chairman IETE Chennai Centre, on **Jan 03, 2012** in a befitting manner in the college at Sriperumbudur. Shri A Sugumaran, Div Engr (Retd), BSNL and Exec Committee Member, gave an excellent talk on “Telecommunication Transmission Revolution”.
- A national level Robotics Workshop “iSensobot” was conducted on **Jan 05, 2012** at **ECE Dept of K S Rangasamy College of Technology, Tiruchengode**, by Shri J Thanizharasan, Business Analyst, Wipro Technologies, Bangalore. The aim was to make the students experience the potential of embedded systems by designing a multifunctional land rover “Blinky Version 1.0” using core embedded concepts and advanced control dynamics.
- **ISF of Guntur Engg College** in association with IETE Vijayawada Centre, organized “Electrofest 2K12”, two-day national technical students’ symposium on **Jan 6-7, 2012**. Shri P Suresh Babu, Vice President, ADS Softek, Hyderabad and Dr Geetanjali, Regional Joint Director, for Higher Education, Guntur, were the Chief Guests for inaugural and valedictory functions respectively.
- **ISF of Gudlavalleru Engg College, Gudlavalleru, Dept of ECE**, organized two lectures on **Jan 06, 2012**. Shri Ch V Rama Rao, Assoc Prof, Dept of ECE, delivered a lecture on “Principal Component Analysis” and Shri M Vijay Kumar, Asst Prof, ECE Dept, delivered a lecture on “Asynchronous Chips”.
- **ISF at Scope College of Engg, Bhopal**, was inaugurated by Prof V K Verma, Vice-Chancellor, AISECT University, on **Jan 21, 2012**.
- **ISF at Mepco Schlenk Engineering College, Sivakasi, Virudhunagar, Tamilnadu**, conducted a two-day workshop on “PCB Design and its Fabrication” during **Jan 23-24, 2012**. Shri Gopalakrishnan, Asst Professor/ ECE, of the college delivered a lecture. A demonstration and hands on training were also given.
- A seminar on GSM technologies was organised by the **ISF Chitkara University, Baddi, HP**, on **Jan 27, 2012**. The seminar helped students in brushing up their knowledge skills with the technology.
- **ISF at Shambhunath Institute of Engineering & Technology (SIET), Allahabad**, was inaugurated on **Jan 28, 2012**. The inaugural function was followed by seminar on “**Emerging Technologies in Electronics & Communication**”. The event attracted around 250 participants and wide coverage by media.
- **ISF at Sumathi Reddy Institute of Technology for Women, Ananthasagar, Hasanparthy, Warangal**, was inaugurated by Shri N Namassivaya, Governing Council Member, IETE on **Jan 28, 2012**. The presidential address was by Dr R Archana Reddy, Principal, Chief Patron of SRITW.
- **ISF at Dept of ECE, Ranganathan Engg College, Coimbatore**, organized a guest lecture on **Jan 31, 2012** on the topic of “**Android Development**”. Shri Mundazir Latheef, Project Manager of Kamen Technologies, Coimbatore, was the Chief Guest and Dr J Amos Robert Jayachandran, Principal, REC, presided over the function.
- **ISF in Asan Memorial College of Engineering & Technology, Chennai**, was inaugurated on **Jan 31, 2012** by Shri S Muruganandam, Chairman, IETE Chennai Centre.
- **ISF in Karpaga Vinayaga College of Engineering and Technology, Chennai**, was inaugurated on **Jan 31, 2012** by Shri S Muruganandam, Chairman., IETE Centre, who delivered a technical lecture on “Mobile Communication Evolution” on the occasion.
- The IETE Students’ Day was celebrated in a unique way by **ISF Babaria Institute of Technology, Varnama**, on **Feb 01, 2012** with the “Treasure Hunt Season-2” event, for all students of EC Dept. It had a positive response of about 148 participants which were organised into 74 teams. On **Jan 31, 2012** a Robotics Workshop was held for the first year students to educate and instruct them with robocar making.
- **ISF Magna College of Engg, Magaral, Chennai**, was inaugurated on by Shri V Chinna Pappiah Hony Secretary, IETE, Chennai.

## Important Information

### IETE Awards-2012 for Excellence

“Call for Nominations” and brief information of various IETE Awards-2012 has been published in Nov-Dec 2011 issue of IETE Technical Review and Journal of Research. The complete details and nomination proforma for these Awards are also available on IETE website ‘<http://www.iete.org>’ which are freely downloadable. The **last date** for receiving the nominations at IETE HQ is **30 Apr 2012**. We request all esteemed IETE Members and Chairpersons of Centres & Sub-Centres to give wide publicity to these Awards and encourage large nominations through their sources and personal contacts. This would also enhance the image of IETE. Your co-operation is solicited. For any further details, clarifications and assistance, please feel free to contact: **Dy Managing Editor**, ARP Section, IETE HQ; e-mail: [mgeditor@iete.org](mailto:mgeditor@iete.org); Telephones: 011-43538842 to 44

### IETE

## 43<sup>rd</sup> Mid-Term Symposium on “ICT in Education”

**14-15 April 2012 at the Pride Hotel, 5 University Road, Shivaji Nagar, Pune-411 005**

**Call for Papers:** Previously unpublished contributions from a broad range of topics in the area of “ICT in Education” are solicited, including but not limited to the following:

- ICT equipment and tools in teaching and learning process.
- Optimal requirement of ICT Resources for Education versus their availability.
- Stages of teaching and learning through ICT.
- Growth of ICT and its effect on syllabi and teaching methods.
- Integrating of embedding ICT across the Curriculum.
- Changed Methodology of Examination due to ICT.
- Influence of ICT in the Philosophy of learning and pedagogy.
- Development of Learner-Centric Environment.
- Role of Animation and Multimedia in learning.
- On-line versus Off-line Education.
- Laboratory Simulators to Complement Practical Training.
- Development of Content for ICT Supported Education.

#### IMPORTANT DATES

Receipt of extended abstract	: 20 <sup>th</sup> March 2012
Acceptance notification	: 25 <sup>th</sup> March 2012
Last date to submit Full papers	: 03 <sup>rd</sup> April 2012

#### REGISTRATION

Tutorials on 13 <sup>th</sup> April 2012	: Rs 1,000/- per delegate
Symposium on 14 <sup>th</sup> -15 <sup>th</sup> April 2012	: Rs 1,500/- per delegate
Students IETE	: Rs 500/-

IETE Corporate Members and Organisational Members will receive a concession of 25% in Registration Fees for Symposium and Tutorials.

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### Obituary



**Shri S R Jiwaraajka (F062296)** We regret to inform you the sad demise of Shri S R Jiwaraajka who passed away on 18 Oct 2011. He was the Chairman of Salora Group. He was a visionary and highly involved in Telecom sector. Under his leadership Salora had made major donation for IETE library in IETE Hqs.



**Prof G S Raju (F057407L)**, one of our active members and founder members of IETE Aurangabad Centre, expired on 15 Feb 2012 at Secunderabad. As an Executive member, he guided the Centre in academic and administrative issues for many years. He joined Physics Department of Marathwada University in 1974. He was the pioneer in starting Electronics especially Microwaves in the University. He was a research worker and an able teacher.





## Awards and Honours

### President IETE honoured

Shri R K Gupta, President IETE, has been conferred with the prestigious **Lifetime Achievement Award-2011-12** by the **Broadcast Engineering Society** for his outstanding contribution to Broadcasting and promotion of ICTs for spread of education in the country. He was presented this Award by **Shri C M Jatua, Hon'ble Minister of State,**



**Information & Broadcasting, Govt of India,** at BES Expo 2012 on 13th Feb 2012. IETE fraternity heartily congratulates the President for this coveted honour.



**Prof K K Aggarwal, Past President and Distinguished Fellow of IETE** has been nominated as **Chairperson** of the **Board of Governors (BoGs)** of **Malaviya National Institute of Technology, Jaipur, Rajasthan**, for a period of three years by the President of India, in her capacity as the 'Visitor' of the National Institutes of Technology. This is a rare honour for Prof K K Aggarwal. IETE fraternity congratulates and wishes him all the best in his new role.

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