IETE NEWSLETTER

THE INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS

FROM PRESIDENT'S DESK

Telecommunications along with the privatization, deregulation and competition, have helped boost national growth and increase participation from all the sectors in India. The Institution like IETE has tremendous responsibility in supporting and augmenting this growth in our country. It has been my endeavour as President IETE to ensure and enhance significant contribution from IETE in achieving growth for the benefit of the people of this country.

Teledensity of a nation plays a vital role in improving the life of its citizens. The expansion of India's telecom industry has led to an "all-inclusive growth" of the Indian economy in terms of GDP (gross domestic product), employment and revenues. Telecommunications, together with the IT sector, have created jobs for India's knowledge professionals and skilled workforce. High growth in the IT and ITES (IT-enabled services) sectors is dependent on the sound connectivity and availability of infrastructure to the people of India. On the flip side it has resulted in another serious problem of "IT Waste Management". Keeping this serious issue in mind, IETE organised an international seminar on "Export Development Trade in Green IT" on 25 Nov 2008 at New Delhi.

The boon of the digital age coupled with India's large number of young, talented and educated people fluent in English, are transforming India into an important global outsourcing destination. However, this poses a huge challenge to all of us to respond to the new issues. We need to have systems and policies in place to harness these exponential growths. IETE conducted the above seminar with all the major players like NASSCOM, TRAI and representatives from academia and industry participating in the country. I personally feel that we at IETE need more indulgence in such initiatives based on global issues meant to resolve future crisis of telecom and IT industries.

Mobile technologies are other areas which need serious attention of the telecom and IT professionals to ensure healthy control on future manufacturing and services sectors.

Bharat Sanchar Nigam (BSNL), India's leading telecom company (in terms of revenue) is going to invest something like US$1.2 billion in its WiMax deployment. The project entails establishing WiMax wireless broadband connectivity mainly in urban areas by this year and there are also plans to develop nationwide 50,000 IT-enabled kiosks, dubbed as common service centers (CSC), which will run on WiMax. It is important for IETE to respond to such emerging new domains. With this as the backdrop I initiated the co-operation talk between IETE and IEEE, the two stalwarts in the field of electronics. I am happy to communicate that we could sign an important MOU with IEEE- MTT-Society to be able to give shape to our concerted efforts ensuring spread of right information and also optimising the resources.

To streamline various activities at IETE headquarters and centres/ sub-centres, I have initiated some programmes. While we are working to digitize council decisions, we are also progressing with OMR, Online Submission of articles & review system and On-line registration system etc.

I request all our stakeholders to come forward and harness the benefits of these technological and social changes in this information age. I hope that this New Year gives us more hope and success. I wish all IETE fraternity and their families a very happy, prosperous and successful year 2009.

Lt Gen Ashok Agarwal, PVSM (Retd)

IETE offers condolences to all the people affected due to recent terrorists' attacks at Mumbai on Nov 26, 2008. We salute our people for their resilience and the heroes who sacrificed their lives in the service of the nation. Our fraternity vociferously protests against this cowardly act of the terrorists. We pray to the Almighty for peace and harmony.

NEWS FROM HEADQUARTERS

Foundation Day Celebrations

On November 02, 2008, the Institution of Electronics and Telecommunication Engineers celebrated the Foundation Day to commemorate the significant contributions made by the founder members and to felicitate them at various IETE centres / sub-centres. The theme chosen to mark the occasion was **"ICT for Common Man".** Honorable Minister for Science and Technology, **Shri Kapil Sibal**, graced the IETE's Foundation Day celebrations at IETE HQs as the Chief Guest. Accompanying him on the dais were: **Shri T V Ramachandran**, DG, COAI; **Shri P N Chopra**, DIG, BSF (Retd); **Lt Gen Ashok Agarwal**, PVSM (Retd), President IETE; **Shri K Sridhara**, Member Telecomm Commission; **Shri Ajay Bhattacharya**, Administrator, USO Fund and **Brig V K Panday**, Secy General IETE.

Lighting of the ceremonial lamp by the Chief Guest, Shri Kapil Sibal.

The welcome address and overview of the theme was delivered by **Shri P N Chopra**, who remarked about the country's recent revolution in telecom area, terrestrial networks, bandwidth and Govt's recommendations on Spectrum Management. In the Presidential Address, **Lt Gen Ashok Agarwal, PVSM (Retd)** pointed out that the usefulness of IT in modern times couldn't be overemphasized. It had extended its penetration in every aspect of life; be it basic health, agriculture, education or governance. It had brought e-revolution because of low cost accessibility; had provided an equitable platform among the countries, within the countries, between urban & rural areas and rich & poor. He said that it is extending all possible help to humanity at large and have become our part at all places at all times. He said IETE was playing a significant role in providing a forum for discussion on relevant national policies and providing suitable inputs to policy makers. It organizes conferences, symposia, workshops and brain-storming sessions involving concerned professionals, academia and industry for the advancement of telecom and IT discipline. Emphasizing on the need for developing a learning culture, he said that the ability to use ever changing technology to acquire relevant knowledge and to convey information in a manner that empowers individuals to maximize their natural potential perhaps stands out as the basic prerequisite. In this regard access to ICTs has to be included in the training and learning processes.

Shri K Sridhara said that ICTs enable acquisition of information and skills thereby improving productivity of a person resulting in higher incomes and helping in poverty alleviation at the individual level. ICTs also enable tele-education, telemedicine, e-governance, e-commerce, etc., thus reducing the digital divide between rich & poor as well as urban & rural. Some current ICT applications touching the life of a common man were in the area of education, railways, finance & commerce, governance, agriculture, communication and many more. About futuristic applications, he elaborated on machine to machine communications, ICT for traffic control & monitoring through GPS based systems, communication aid for disabled and its role in education, biometrics, location based services, telemedicine, disasters, law & order and judiciary.

Shri Ajay Bhattacharya, pointed out plethora of developments that has taken place due to ICT applications. The main challenges according to him were: access to ICT for common man; access to broadband, availability of electricity, low teledensity in remote areas which leaves a person more isolated. He acknowledged being privileged to be part of exciting innovative programmes started by DoT.

Shri T V Ramachandran called mobile phones the main driver impinging on all aspects of life of a common man empowering them but also lamented about the still unconnected 700 million Indians in rural areas. He said that

he was very hopeful of different initiatives like that of Bharati telecom ventures to manage, maintain and provide quality of service and standards on Airtel networks and also to benefit million existing customers - in the need for connected India.

Presenting the current status of teledensity in the country, **Shri Kapil Sibal** said that what ICT normally meant in the country was only infrastructure & access, whereas the content, uniformity of information & data were more important aspects that were lacking at present. He appealed for the availability of uniform data. For a forward looking

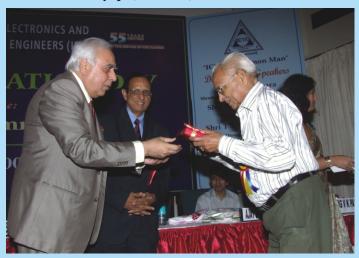## IETE honours its Senior & Founder Members for their outstanding Services

IETE Foundation Day is also an occasion when we show our gratitude and respect to our senior & founder members who supported IETE's mission with enthusiasm & competency and helped the community to grow in size and stature. On 2nd Nov 2008 on the occasion of 55th Anniversary of IETE, the HQ honoured three of its Senior & Founder Members **Shri H S Virdi, Shri M S Kashyap and Wg Cdr B R Chawla (Retd)** for their contribution & vision. Shri Kapil Sibal presented them the mementoes.

Shri H S Virdi (F-000637)

He is a founder member of IETE and has been associated with IETE since then.

Wg Cdr B R Chawla (F-003284)

Wg Cdr B R Chawla is a founder member of IETE and very closely associated with IETE. He was the first Office Bearer, Honorary Secretary, of IETE Delhi Centre founded in 1982. He was instrumental in starting ALCCS Course of IETE. He was IETE Council Member. He was Chairman of IETE Delhi Centre for the year 1985-88.

Shri M S Kashyap (F-003107)

He is a very senior founder member, presently a Fellow member of IETE. He has served DoT in various capacities and has been consultant to SR Telecom, Advisory (Telecom), Nokia and other industry.

A view of the dais during IETE Foundation Day at IETE Hqs.

country like India there should be seamless flow of data through out the country. Quoting an example of a need of common farmer, he said that appropriate kind of natural soil, fertilizers, nutrients, weather forecast, seeds and host of other information were more important than availability of mobile phone, internet or broadband. There was also lack of network connectivity in content and no accessibility of 100% data in the country, according to him. ICT which is needed for all types of information, is the backbone without which all development becomes useless if there is no data/ content. Immediate steps that required to be taken, according to Mr Sibal, were: uniformity in boards of CBSE education; appropriate Govt policy decisions for the private sector; long term investment strategies; allowing private sectors with level playing fields; uniform policies to allow the Indian telecom sector move forward with the same pace as others. Senior and founder IETE Members like **Shri H S Virdi, Shri M S Kashyap** and **Wg Cdr B R Chawla (Retd)** were honoured on the occasion. Mementoes were presented to the dignitaries.

Vote of thanks was proposed by Brig V K Panday, Secretary General, IETE.

2nd IETE Convocation

The 2nd Convocation Ceremony of the Institution of Electronics and Telecommunication Engineers was inaugurated by **Dr Narendra Jadhav, Vice-Chancellor of University of Pune,** on 28 Nov 2008 at Pune. About 88 students of AMIETE and ALCCS were awarded degrees by the Chief Guest at the convocation.

Dr (Mrs) Sneh Mohan, Chairperson BoE, in her address congratulated the successful candidates of AMIETE and ALCCS and reminded them of the challenges and opportunities that lied ahead to be explored by them. She

asked the professionals to be creative and innovative in order to succeed. She informed about the humble mission of the IETE for access to informal education when it started functioning and its continuous growth since then in terms of enrolments, increase in number of centres, better labs & equipments and improved academic courses for the student fraternity. She also mentioned about the new initiatives taken by the IETE in examination related matters to keep pace with the leading universities of the country to face the global challenges.

Prof C Murali, Chairman ADEC, in his inspiring address paid tributes to the past presidents, members of the council, past chairmen and the executive committee of local centres, all students, corporate members, organizational members, industry & Govt departments, who helped in shaping the IETE's destiny. He thanked them for their vision to impart non-formal education in Electronics Engineering discipline to the weaker sections of the society way back in 1953. He also informed the audience of the opportunity offered by IETE for engineering education to those who were in service. Even after 5 decades of services to the society IETE was still striving hard to help the members to take up the professionals' responsibility to meet the present & future requirements in the fields of electronics, telecommunication and IT. To the fresh graduates he wanted them to prove their skills, competitiveness, and professionalism.

Congratulating the graduating engineers, **Dr Narendra Jadhav** in his Convocation Address said that he had no doubts that these passing out graduates would add further lustre to the illustrious record of IETE which enjoys enviable reputation for academic excellence and course curriculum, and to the reputation of the earlier students, known for their skills and sagacity. Dr Jadhav pointed out that for the graduating students this was not the completion of the process but the beginning of a challenging journey towards the ever expanding frontiers of knowledge. Established paradigms were being redefined and the students should be professional in the knowledge era. He took note of spectacular growth of IETE since its inception in 1953 and had all praises for IETE courses as they not only meet the need for expanding the national industrial and R&D base, but also help under-privileged students and children from backward and rural background to achieve professional qualification through self learning while having jobs for livelihood. He expressed happiness that IETE imparts computer training to visually challenged persons and various other initiatives like e-learning. Talking on the current economic crisis he cleared that while developed countries like US, Japan and others from West Europe were the engines of growth, showing spectacular

The Chief Guest being introduced to the faculty of IETE officials.

Academic procession entering convocation hall.

President IETE & the Chief Guest during academic procession.

Dignitaries on the dais.

Dr (Mrs) Sneh Mohan, Chairperson BoE, briefing on exam activities.

Chairperson ADEC, Prof C Murali explaining academic activities.

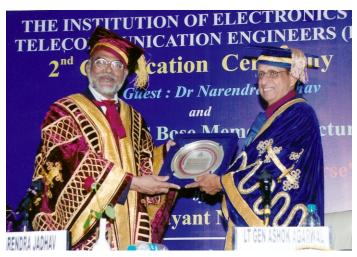Lt Gen A K Agarwal, PVSM (Retd) delivering the Presidential address.

An ALCCS student receiving the parchment paper from the Chief Guest.

An AMIETE student receiving the parchment paper from the Chief Guest.

Convocation Address by Dr Narendra Jadhav, VC Pune University, the Chief Guest.

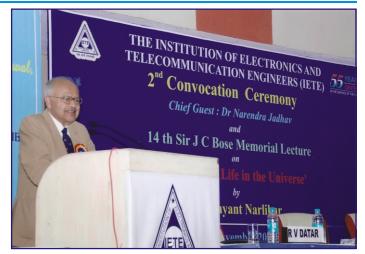IETE President felicitating the Chief Guest with a memento.

A view of audience at 2nd Convocation of IETE at Pune.

economic growth from the end of Second World War up to 2000-2001, have now clearly started slowing down. Dr Jadhav blamed the subtle changes that were introduced in the US banking system some years ago to have led to the current sub prime crisis and total lack of credibility in the financial systems. He explained the current global crisis in the background of various economic developments since the end of 2nd World War and three important turning points during the year 1991, 2000-01 and in 2007-2008. India and China have catapulted in this metamorphosis in becoming the new economic powers. As much as 36% has been contributed to the global economy by these two countries. With these exciting changes taking place all around, Dr Jadhav said that the passing out students could now contribute to the emergence of the country's economy in a very substantial way and share in the process of making India a financial super power.

He emphasized the need for Human Resource Development and bridging of digital divide which were causing the growing economic imbalances and social inequities, IETE's focus on the advancement of ICT was the right step in that direction. Dr Jadhav briefly described the achievement of his project "Samartha Bharat Abhiyan" which was a 15 point programme and students working under it had already planted around 700 thousand saplings in villages and sanitized 35 villages to receive "Nirmal Gram" award by the hands of Hon'ble President of India. Finally, Dr Jadhav ended his address by pointing out that learning was a continuous process and self improvement and development must be the key goals of students. In this ever changing world, knowledge adoption was the defining characteristic of every successful society.

14th Sir J C Bose Memorial Lecture

The **14th Sir J C Bose Memorial Lecture** coincided with the convocation ceremony. This year IETE had the proud privilege of having Padma Vibhushan **Prof (Dr) Jayant Narlikar,** the world renowned Scientist and Emeritus Prof, Inter University Centre for Astronomy & Astrophysics, Pune, as the Chief Guest for delivering this prestigious lecture on the theme **"Searches for Life in the Universe". Shri R V Datar,** Chairman IETE Pune centre, delivered the welcome address. Overview of the Memorial Lecture was given by **Shri P N Chopra,** DIG, BSF (Retd). The IETE President, **Lt Gen Ashok Agarwal,** PVSM (Retd) explained the background of Sir J C Bose Memorial Lecture and informed how IETE commemorated the birth anniversary of Sir J C Bose by inviting eminent scientists and engineers on subjects of topical interest during past years. In his address he congratulated ISRO Scientists on the successful launch of India's maiden moon mission Chandrayaan-1. He hoped that the lecture would give better understanding of important

Prof Jayant Narlikar delivering the 14th Sir JC Bose Memorial Lecture.

issues on the interesting topic of "Searches for Life in the Universe" and will give insight to new technologies useful to the working professionals interested in the field.

The speaker, Prof Jayant Narlikar was introduced by Ms Leena Bokil, Hony Treasurer of IETE Pune Centre. He was delighted to address an audience consisting mainly of young engineers apart from the dignitaries. Paying tribute to Sir J C Bose, he highlighted some of Bose's important works namely-response of plants to stimuli, discovery of electrical nature of plant stimuli and his demonstration of millimeter waves by performing an experiment in public. Prof Narlikar also recalled Sir JC Bose as being the first person to employ semi conductor junctions to detect radio waves. Speaking on his own topic, he depicted the place of the earth in solar system, the place of the Sun in Milky Way galaxy and the subsequent discoveries of clusters and super clusters of galaxies. The earth and the sun being ordinary and insignificant entities in the cosmos, he explained of strong possibility of abundant number of extra solar planets (200 extra solar planets already identified) being present in this vast universe. The cosmos contains about 10 exp 21(one followed by 21 zeroes) sun like stars! Logically there was a strong likelihood of a good number of life supporting planets in existence among at least some of the extra solar planets surrounding these Suns. In this connection he explained Drake's equation which estimates there being possibly more than 1 million super civilizations in this vast universe even after taking in to account all negative factors.

Prof Narlikar described various logical approaches of investigating life in the universe and indicated that the most practical approach was sending and receiving messages to Extra Terrestrial advanced civilizations if any, and also to monitor intelligent messages possibly being transmitted among civilizations, if any, in the outside universe. He described the SETI experiments and showed some interesting photographs

of giant millimeter wave antennas at West Virginia and Arecibo. He then informed about the discovery of molecular clouds in which simple inorganic and complex organic molecules have been reported as existing in outside universe. This has in turn led to the possibility of there being micro organisms such as bacteria and viruses in the universe and proving their existence beyond doubt which could be a humble but very practical approach in finding extra terrestrial life. Prof Narlikar himself for past few years has been associated with research being carried out by sending balloons at a height of 41 kms and collecting samples. He briefly described the findings in which microbes which can not possibly reach such a height from earth have been detected by careful analysis using filters. He explained that this research is still in progress and promises to yield important results. His lecture was very lively and was followed by number of querries from the audience. The learned Prof answered all of them in simple language, making it a wonderful experience.

National Roundtable Conference on "Export Development of Green IT"

With the active support of IETE, International Trade Centre, UNCTAD/ (ITC) WTO, Geneva and Electronics and Computer Software Export Promotion Council (ESC) a National Roundtable Conference was organized on Nov 24, 2008 at New Delhi, to promote green business practices to develop national export strategies.

The main participants in the meeting were: **Shri Deepak Sareen,** Executive Director, ESC, New Delhi; **Mr Nikolai Semine**, Senior Advisor, ITC/ WTO, Geneva; **Lt Gen Ashok Agarwal**, PVSM (Retd), President IETE; **Shri P N Chopra**, DIG, BSF (Retd), Chairman Technical Programme Committee, IETE; **Brig V K Panday**, Secretary General, IETE, many other distinguished speakers apart from some regulators, opinion leaders, representatives from large environmental companies, etc.

The objectives of the roundtable conference were to access the best national and international Green IT business practices, integrate environmental dimensions into national export strategy planning and business to business trade development; to participate actively with national & international business stake holders, to build and enhance Green IT business network with the understanding of evolving trends in environmental business practices.

The catastrophic consequences of climate change due to global emission of greenhouse gases (GHGs), mainly from the use of fossil fuels , has drawn attention to the possibilities offered by renewable energy sources, green technologies and products that reduce emissions of GHGs and other

A section of dignitaries during National Roundtable Conference at New Delhi.

pollutants. The IT sector offers a wide spectrum of business solutions for increasing efficient use of energy and reducing companies' overall environmental footprint. Many industries could make use of modern IT solutions and thus gain greater access to higher efficiency low-carbon markets. Better use of IT would result in moving away from current energy-intensive work habits and life styles. To this end, developing countries need Govt policy innovations, incentives for companies and active engagement of consumers. Thus unlocking the universal potential of clean technology in the IT sector is a critical step towards a low carbon future.

Shri P N Chopra welcomed the participants and gave overview of the theme. **Mr Nikolai Semine,** Senior Advisor, ITC/ WTO, Geneva, delivered the keynote address on Green Economy. **Lt Gen Ashok Agarwal**, PVSM (Retd), President IETE, expressed his concern about ICT industry producing 2% of the world's CO2 emissions equivalent to aviation industry carbon output and need for managing of the e-waste. He said IETE was committed to promote the growth of Green IT and influence the adoption of IT technologies in the working style of the institution. He emphasized that necessary procedures & standards need to be laid down for exports development of Green IT.

The two technical sessions witnessed a number of expert speakers on green technologies. It included **Shri Vipin Tyagi**, MD, ACCEL Frontline, on " IT Applications for Environment"; **Shri Vinnie Mehta**, Executive Director, MAIT, New Delhi, on "e-waste Management Issues"; **Shri Pankaj Sharma**, Director NASSCOM, on " Green IT Initiative"; **Shri P K Garg**, Former Wireless Advisor, Govt of India, on "Role of Telecommunications"; **Prof Ram K Verma**, Executive Director, Apeejay Institute of Technology,

on "Green Business- Green IT: Opportunity for Environment Applications"; **Shri Yogesh Andlay**, MD, Nucleus Software, on "Software Industry View Point"; **Shri Angad Bhatia,** TEMA and **Dr Ashish Bhardwaj**.

The Roundtable Conference concluded with open house and panel discussions moderated by Mr Nikolai Semine. Lt Gen Ashok Agarwal in his closing remarks summarized the salient points discussed. The vote of thanks was proposed by Brig V K Panday, Secretary General IETE HQ.

Memento Presentation to Prof Ram K Verma, Apeejay Institute of Technology.

Joint Symposium on Microwave Technology

A joint symposium on **"Microwave Technologies"** was organized on this occasion. **Shri P N Chopra**, DIG, BSF (Retd), Chairman, Technical Programmes Committee, IETE, welcomed the delegates. **Lt Gen Ashok Agarwal**, called this unification important as it heralded a new era in mutual co-operation between IETE & IEEE- MTT-S. He said that there was an urgent need to study microwave engineering for achieving new yardsticks in view of the emerging wireless technologies. Wi-Fi, Wi-Max and other wireless technologies were critical infrastructure in all the organizations. With the advent of new standards and newer technologies, microwave on which these wireless technologies functioned, was going to be the core issue. He also cautioned on the use of spectrum resources.

Dr Jozef Modelski, President, IEEE, MTT Society, called IEEE a transnational society with 376,328 members in 160 countries & its varied scope of interest into many related fields. He informed about IEEE technological innovations in terms of publications, conferences and standard developments. India, he said, along with some other countries was an emerging international market for IEEE products because of

software development, knowledge-based industries, outsourcing of services, increasing output of trained engineering and IT human resources. Shedding more light on Microwave Theory and Techniques Society (MTT-S) of IEEE, he said it had more than 11,000 members (5th largest IEEE Society) with 121 chapters in 44 countries; published 3 world-class periodicals, conducted IMS - flagship symposium, conferences plus prospects for the establishment of new Student Branch Chapters in the fastest growing areas. He said that he looked forward to more meaningful & fruitful relation with IETE in future.

Dr Barry S Perlman, IEEE MTT-S President Elect-2009, Associate Director for Technology, Army Communication- Electronics RD & E Center (CERDEC), Ft. Monmouth, NJ, USA, spoke on **"Trends in Mixed Signal Microsystems and Enabling Technologies".** According to him a variety of new MW/RF integrated mixed signal technologies were being developed which could enable new system capabilities; advanced microsystem devices and multifunctional RF/MW components would enhance functional capabilities and performances; but innovations were required in Analog/RF/Mixed Signal reconfigurable technology. Thus according to him new enabling mixed signal integrated circuit technologies were continued to be developed to provide new functional capabilities with reduced size, weight and power consumption and improved speed and circuit density.

Shri BB Bhatia, Director, Motorola India Pvt Ltd, talked on **"Spectrum and Policies for Broadband Wireless Services (based on IEEE Standards)."** He presented his views on Govt new policy initiatives and India's wireless services that had redefined the global rules of Telecom Industry. He opined that broadband is not only key to bridging the digital divide but it was also the engine to economic growth in India. Spectrum availability was crucial for success of Broadband. He gave some easy tips for spectrum management looking at the present market trends. Explaining the global bands for IEEE BWA technologies, he informed about India's future decision to auction BWA spectrum and other developments in this area.

Shri Vijay Nair, Distinguished Microwave Lecturer, MTT Society, presented his views on **"Heterogeneous Wireless Communication Devices – Present and Future".** According to him proliferation of wireless protocols and convergence of communication and computing platforms were creating significant challenges and opportunities. According to him, co-existence and platform noise placed new demands on integrated radio design approach; Multi-radio platforms required innovation in Radio architecture, Baseband, RFIC and RF from-end IC designs and integration,

High density packages and Antenna designs. He said that CMOS IC integration was advancing rapidly to realize SOC solution for multi-radio platforms.

Shri Ashok Kumar, Dy Director General, TEC, DoT, New Delhi, gave his presentation on **"Broadband Radio Technologies"**. He elaborated on the service trends with new applications and higher bandwidth. Reasons he gave for emergence of Broadband Radio Technology were affordability, flexibility, high bandwidth, quick upgradation and deployment. The key features of Local Multipoint Distribution Systems/ Services (LMDS), High Altitude Platform Station (HAPS), and Worldwide Interoperability for Microwave Access (Wi-MAX) were explained by Shri Kumar. He pointed out that the most significant shift in communication & connections since the creation of cellular networks was from Fixed Broadband to Mobile WiMAX, Metro Wi-Fi, Mesh Networks to Wireless Backhaul.

The symposium ended with a very interesting question-answer session and presentation of mementoes to the delegates.

Dr Jozef Modelski, President IEEE, MIT Society receiving the memento from President, IETE.

MoU between IETE & IEEE - MTT-S

The IETE, a leading professional society devoted to the advancement of electronics, telecommunication, information technology, computer science & engineering, New Delhi and the IEEE Microwave Theory and Technique Society (IEEE MTT-S), on behalf of the Institute of Electrical and Electronics Engineers, Inc (IEEE), New York, USA, the world's leading professional association for the advancement of technology, joined hands to share privileges and cooperate with each other to promote mutual professional growth and

prosperity. The MoU was signed on Nov 25, 2008 by **Dr Jozef Modelski, President IEEE MTT-Society** and **Lt Gen Ashok Agarwal, President IETE**, at India International Centre, New Delhi.

President, IETE & President IEEE, MTT Society signed historic MOU on 25 Nov 2008, New Delhi.

This MoU would offer a unique opportunity to both the organizations during conferences and for publications in developing wide range of professional relationships. Expert panels, presentations, key note speeches, exhibits and social events would provide an opportunity to interact with the leaders and innovators in the fields of mutual interest.

NEWS FROM CENTRES

A number of technical activities were reported by IETE Centres/ Sub-Centres all over the country.

Ahmedabad

- The centre arranged a lecture on **"VLSI Embedded Systems"** by **Prof M V Shah,** GTU, Ahmedabad, on Oct 05, 2008. This was attended by about 100 IETE students and senior members.

- **BASL training** after ten days completed on Oct 16, 2008.

- **IETE Foundation Day** was celebrated on Nov 02, 2008 with **Shri N Pant,** Member, Space Commission, Dept of Space, as the Chief Guest. The keynote speaker on the theme **"ICT for Common Man"** was **Shri S K Bhandari,** PGM, BSNL, Ahmedabad. **11th IETE B V Baliga Memorial Awardee, Dr S B Sharma,** Deputy Director, SAC (ISRO) Ahmedabad, spoke on the theme **"Antennae for Satellite Communication"**

on the occasion. Special guest and a founder member, Shri Wartikar, was felicitated on the occasion.

Bangalore

- On Oct 18, 2008, a technical lecture was delivered by **Shri N Balasubramanian**, Head Integration Avionics, ARDC, HAL, Bangalore, on **"Utility Management System: A Concept in LCA"**

- A month long course on **"Embedded System Designs using Micro-Controllers"** concluded on Oct 19, 2008.

- **IETE Foundation Day celebrations** were held on Nov 02, 2008. Founder members Prof B S Sonde, Shri T V Srirangan, Brig K Balasubramanian, Shri Narendranath & Prof J Paramashivan were felicitated. Speakers for the theme "ICT for Common Man" were: **Dr M H Kori, Shri H Ramakrishna** and **Prof B S Sonde.**

- **6th IETE-NV Gadadhar Memorial Award** was presented to **Dr Aloknath De,** Dir, Mobile Multimedia and Communications, ST Microelectronics, India, by AVM A S Murthy (Retd). The Awardee delivered a lecture on **"Embedded Technology in Mobile Multimedia Communication".**

Bhopal

A one-day national seminar on **"Nanotechnology & Human Resource Development"** was inaugurated on Nov 07, 2008, by **Dr V Ganeshan**, UGC- DE consortium of Scientific Research. It was held with joint association of IETE local centre and IES College of Technology, Bhopal. The dignitaries present were : Shri Mahesh Shukla, Vice Chairman, IETE Bhopal Centre and GM-BSNL; Dr R K Pandey, Director UIT; Dr Javed Khan, RGPV; Dr Rajesh Kurchania, RGPV;   Shri B S Yadav, Chairman, IES Group, Principal, delivered informative lectures on above topic. Vote of thanks was delivered by Prof R P Gupta, Secretary IETE Bhopal centre.

Chandigarh

Dr Pawan Kapur, Chairman IETE Chandigarh Centre and Dir, CSIO, in his inaugural address at **Foundation Day celebrations,** emphasized the potential of ICT for common man in rural India's development through variety of applications in agriculture. The importance of electronics, IT, computers and sensor technology were highlighted for the common man. The other speakers were :Prof M Syamala Devi, Comp Science, Punjab University and Shri Neelsh Kumar, CSIO, Chandigarh. The senior founder member, Col (Retd) AJS Gill was honoured on this occasion.

Chennai

A two-day national seminar was organized on 5th-6th Sept 2008 under the auspices of IETE Chennai Centre, HQ ATNK & K Area (Army) Chennai & Sathyabama University. The theme of the seminar **"Emerging Technologies of Thermal Imaging"** was outlined by **Maj Gen E J Kochekkan**, AVSM, SM, VSM, General Officer, Commanding, ATNK & K Area and **Dr Jeppiaar**, Founder & Chancellor, Sathyabama University, the Chief Patrons. **Maj Gen (Retd) R Khetrapal**, VSM, Chairman & Mg Dir, Bharat Dynamics, was the Guest of Honour and **Maj Gen J Singhla**, MGEME, HQ Southern Command, was the special invitee. The expert speakers who delivered the lectures were: Prof K G Naranyankhedkar, Dir, VJTI, Mumbai; Prof Suneet Tuli, Associate Dean (Industrial and R&D), IIT, New Delhi; Dr Trilok Singh, Director, CRYO-DIV, BARC,Mumbai; Prof Sunil Sarangi, Dir, NIT, Rourkela; Prof Subhash Jacob, CCRT, IISc, Bengaluru and Prof M Atrey, Associate Professor, IIT, Mumbai. The vote of thanks was proposed by Er V S Sundaramurthy, Chairman, IETE Chennai centre.

Coimbatore

- One-day symposium **"Sankhya 2008"**on Oct 18, 2008.

- One-day seminar on **"Programmable System on Chip Design Contest"** by **Shri M Karthikeyan,** Product Marketing Engineer, Cypress Semiconductor Technology India, Chennai, on Oct 22, 2008.

- Seminar on **"Engineering Fundamentals"** by **Shri Prashant R Nair** and on **"Computer Viruses"** by **Shri Arun Kumar,** ISF Coordinator, on Nov 20, 2008.

- National Conference on **"Adaptive Sensors and Intelligent Systems"** on Nov 21 & 22, 2008.

- Faculty Development Programme on **"Non-linear Dynamics and Chaos in Engineering"** during Dec 3-5, 2008.

Hyderabad

Sept 24, 2008: Stone laying function of renovation of auditorium and premises of IETE Hyderabad centre was organized.

Nov 01, 2008: **12th IETE-Prof SVC Aiya Memorial Award** lecture on **"Smart Electronically Scanned Antennae"** by **Dr V M Pandhari Pande,** Prof, ECE Dept, University College of Engg, Osmania University, Hyderabad and **14th IETE-Prof K Sreenivasan Memorial**

Award lecture on **"VLSI-Growth of Technology"** by **Dr S R Ramaswamy**, Prof, ECE Dept, TKR College of Engg & Tech, Meerpet, Hyderabad & Dir, Teegala Krishna Reddy College of Pharmacy, Meerpet, Hyderabad, were arranged. Dr V Gunasekhar Reddy, Chairman, IETE Hyderabad centre, presided over the function.

Kanpur

Er G P Tripathi, GM (Mobile), BSNL, Kanpur, was the Chief Guest on the occasion of the IETE Foundation Day celebrations held on Nov 02, 2008, at IETE Kanpur centre. He talked on the theme **"ICT for Common Man"** & explained the importance of communication technology for a common man. **Prof A K Chaturvedi**, EE Dept, IIT Kanpur, delivered a talk on **"Wireless Communications"**. Speaking on **"Automatic Speech Recognition (ASR)", Prof S Umesh,** Electrical Engg, Dept, IIT Kanpur, informed about its goal & relevance in the country as ASR allows human to interact with machine by speaking rather than by using the keyboard, mouse or stylus. Prof Narendra Kohli, Hony Secy, IETE Kanpur centre, proposed vote of thanks.

Foundation Day Celebrations at Kanpur Centre, IETE.

Kochi

A large number of students, members and dignitaries participated in the celebration of IETE Foundation Day on Nov 02, 2008 at the Kochi centre. Prof M V Rajesh, Hony Secy read out the message of the President IETE, sent to the centres. **Shri V S Shenoy**, Scientist NOPL, presented his thoughts on the theme **"ICT for common man"**. This was followed by a discussion on the subject piloted by Dr V Chander.

Mumbai

The **IETE Foundation Day** was celebrated on November 2, 2008 at the new premises of IETE Mumbai centre, IETE-HOUSE. The dignitaries present during the function were: **Dr P J Joglekar**, the Chief Guest; Shri K K Minocha, the speaker; Dr KTV Reddy, Chairman and Prof J W Bakal, Hony Secretary, IETE, Mumbai Centre. After the introductory speech of Dr KTV Reddy, Dr P J Joglekar, Council Member & the Chief Guest emphasized on the need of Information & Communication Technologies for all in different languages. **Shri K K Minocha,** GM, BSNL, Mumbai, talked on the theme **"ICT For Common Man",** discussing various aspects of media like print, audio, video and digital information to help the common man with or without having the computer keyboard to get the information. The IETE Mumbai centre felicitated senior members like Dr P J Joglekar and Shri B G Kale on this occasion. The vote of thanks was delivered by Prof J W Bakal, Hony Secretary, IETE Mumbai centre.

Mysore

A one-day workshop on **"Telecommunication Switching"** by the expert speaker **Shri Balasubramanyam,** SDE, Regional Telecom Training Centre, was organized by the sub-centre at PES College of Engg, Mandya, on Oct 11, 2008.

Nagpur

- A technical lecture on **"WIMAX"** was organized on Oct 11, 2008 by **Shri Chandrashekhar Mahalle,** DGM, Networks, Tata Teleservices Maharashtra Ltd, Nagpur. WIMAX has a range upto 31 miles and is primarily aimed at making Broad Band Network Access widely available without the expense of stringing wires or the distance limitations of Digital Subscriber Line. He explained the working of WIMAX, IEEE 802-16 standard, 802-16 Architecture and features and advantages of WIMAX over Wi-Fi, WIMAX vs 3G and future of WIMAX.

- Celebrations of **IETE Foundation Day** were held on Nov 02, 2008. **Er S P Gorowara,** DIG, BSF (Retd), Nagpur, presided over the function. In his presidential address he said that the benefits of ICT for common man are due to foresight of late Prime Minister Rajiv Gandhi and work done by his team, particularly Shri Sam Pitroda, in developing modern telecommunication. Dr D A Deshpande, Dir, PCD Institute of Computer Studies and Research, Nagpur, emphasized on the need for convergence of IT and farming technology to draw

benefits of ICT for improving the quality of life of farmers and the common man. Shri Nitin Kulkarni emphasized the development in the services offered by the service providers in the field of mobile telephony and Internet. Use of ICT for common man was seen from the tremendous increase in the teledensity in the country. Er S L Dravekar, Hony Secy, conducted the proceedings of the function and proposed vote of thanks. Senior IETE Members, Dr W S Khokle, Former Dir, CEERI, Pilani; Dr Shri M S Korde, Former Professor, Institute of Science and Shri Jagmohan Goyle were felicitated by the centre.

● A technical lecture was delivered by **Dr M S Korde,** Former Professor, Institute of Science, Nagpur and Visiting Professor, Dept of Electronics, RTM, Nagpur University, on **"Decision Making using Fuzzy Logic"** on 8th November 2008. Quoting Dr Lotfi Zadeh, the speaker said "The closer one looks at the real-world problems, fuzzier becomes their solution". Explaining the topic he said that the concept of understanding was connected with both complexity and information. Complexity meant more precision. But there were fundamental limits to ones understanding. Hence there was a need for simplification with minimum loss of information. When there is imprecision (more uncertainty) and inadequate data, the fuzzy logic technique is useful. The cost of information increases with precision but the cost of fuzzy information was far less than the perfect or imperfect information. The two-fold advantages of the fuzzy logic technique were that of understanding of complex systems that becomes easier and the analysis of the system making it cost

Felicitating Senior corporate member, Dr M S Korde, Former Professor at Institute of Science, Nagpur.

effective. Zadeh introduced the concept of fuzzy logic. He used the linguistic variables and further suggested that set membership function was the key to decision making when there was uncertainty. Dr Korde further explained the terms like Fuzzificiation, Fuzzy decision making, need for fuzzy logic, the theories of classical decision making and Models of decision making in detail.

Noida

IETE Foundation Day was observed by the centre on Nov 02, 2008. The Chairman, Col S L Kapoor, read out the message of IETE President on **"ICT for common man"** to the audience comprising of members and students at IETE Noida Centre. **Brig Lakshman Singh, VSM (Retd),** Council Member & Chairman, Students' Affairs Committee, was the Chief Guest for the occasion.

The Chief Guest with the team of IETE Noida Centre.

Palakkad

● **The Foundation Day** at Palakkad sub-centre was celebrated in a grand manner under the chairmanship of Dr M R Vikraman. **Shri Jairam,** GM, BSNL, inaugurated the celebrations. Capt (Retd) R Sundaran welcomed the audience and read out the message of President IETE for this day. The chairman felicitated senior members Shri P Mukundan and the Founder member & Immt Past Chairman of the sub-centre, Shri C K Haridas. Speakers on the occasion included Shri A S Rahulan, Shri C Pradeep and Ms K S Bindu.

● A lecture on **"Signal and Systems"** by **Dr M R Vikraman**, Principal, NSS College of Engineering, Palakkad, was delivered on Nov 28, 2008, for the

benefits of IETE students. Past Chairman, Shri C K Haridas, presided over the function.

Sivakasi

IETE Sivakasi sub-centre celebrated IETE Foundation Day on the theme **"ICT for Common Man"** at Mepco Schlenk Engineering College on November 02, 2008. The Chief Guest **Shri C Chandrasekaran**, Scientist 'F', VSSC, ISRO, Trivandrum, delivered a keynote address on **"Space Communication for Information Technology"**. Briefing about various launch vehicles and satellites that ISRO had designed, he talked about ISRO's role in taking weather conditions, mineralogy and other remote sensing information to the common man. He enthralled the audience by discussing about various payloads of 'Chandrayaan'. **Shri S Radhakrishnan,** Divisional Engineer, BSNL, Sivakasi, delivered another keynote address on **"Mobile Communication for Common Man"**. He explained how information distribution has been made easy with the wireless medium, the new standards and facilities available with latest cell phones.

Vadodara

A symposium on the theme **"ICT for Common Man"** was organized by the centre on Nov 09, 2008 to celebrate IETE foundation day. **Dr R C Desai,** Founder Chairman, IETE Vadodara Centre, was the Guest of Honour and **Wg Cdr S R Vasavada,** Immediate Past Chairman, Vadodara Centre, presided over the function. Dr C S Buch, Puja Clinic, Vadodara; Shri Manish Rathore, DGM, BSNL and Shri Bhavin Patel, Technical Head, EMRI 108, Ahmedabad were the invited speakers. Shri M M Pathan, Col P K Bakshi, Prof N G Bhavsar, Shri R K Sharma, Prof H G Rajput, Prof N M Bhatt, Shri N D Makwana were also present amongst others.

Dr R C Desai in his inaugural speech talked about stages of development of Electronic Communication and Information Technology. **Shri Manish Rathore,** in his talk described ICT as an umbrella term that included all technologies for the manipulation and communication of information. The term sometimes used in preference to Information Technology (IT), particularly in two communities: education and government. Regarding ITU views on ICT, he said that as an instrument, affordable and usable ICTs can indeed transform the way societies work, entertain, study, govern and live, while as an industry it is the hardware, software, telecom/datacom and consulting services. He discussed fundamental characteristics of both views in details. He discussed ICT future in terms of laws, data storage, service needs with the applications in transport systems,

warfare, wireless light and power. **Dr C S Buch** said that the Information is useless without communication. He said that for the globalization of economy, information, tech innovations, knowledge-based economy society, escalating demand for Education, etc. ICT is a necessity. The ultimate success of ICTs for learning will be attained when we stop marvelling about the ICTs and apply our minds and emotions to the wonders of learning. On impact of ICT on society, he said, as more and more people beginning to work from homes, or jobs becoming deskilled, or jobs are taken over by a computer, the impact is going to be very forceful. There will be creation of new more interesting jobs like that of systems analysts, programmers and software engineers, help desk operators and trainers. Much of global business could not be accomplished without ICT. ICT also can reduce the risk of the challenges. **Shri Bhavin Patel** talked about role of ICT in emergency management. Considering EMRI as an application, he described the work model of emergency management through ICT. He also explained the innovative technologies such as Ambulance Tracking (ALVT), Telemedicine technology through mobile which are under development. He said that every citizen in India may be provided Emergency Response Services in Public Private Partnership (PPP) at international standards with 108 toll-free-number accessible on mobile and fixed lines, transportation in well equipped ambulances, pre-hospital care in ambulance by qualified EMTs enroute to reduce mortality, disability and hospital stay, upgraded hospital facilities and capabilities, supportive legal framework at central and state levels with the help of ICT.

Vijayawada

IETE Vijayawada centre celebrated **IETE Foundation Day** under the chairmanship of Dr A V N Tilak. Prof M Kamaraju, Co-opted member, delivered the welcome address. Dr G N Swamy, Hony Secy, read out the message of President IETE. **Dr D Ramakrishna**, MD, Efftronics Systems Pvt Ltd and **Dr P V Subbaiah**, Principal, Amritha Sai Institute of Science & Tech, Vijayawada, spoke on the theme of the Foundation Day. The Chief Guest on the occasion was **Dr S R K Reddy, Principal**, Gudlavalleru Engg College. Shri D RamaKrishna, Dr P V Subbaiah and senior members were honoured.

Visakhapatnam

Celebrating the **IETE Foundation Day** on Nov 02, 2008, the Chief Guest **Shri K Kondala Rao,** Former Additional Director, NSTL, was felicitated as founder member. His services to the IETE Visakhapatnam centre were well recognized and praised by the members. **Prof K Raja Rajeswari,** Chairperson, highlighted the theme of the day

mentioning the impact of ICT tool on every part of the common man's life from services ranging from medicine, agriculture, business environment, education to e-governance. She also applauded the efforts of IETE Hqs in providing learning materials to the students along with CDs and online facility. Others who spoke on the occasion were : Prof G S N Raju, Immediate Past Chairman; Shri S V Rangarajan, Scientist 'G', NSTL, Visakhapatnam; Shri George I Irumben, SE, AIR, Visakhapatnam and Prof B Leelaram Prakash, Secretary of IETE Visakhapatnam.

Warangal

- The sub-centre organized **IETE Foundation Day celebrations** on Nov 02, 2008 at the IETE premises. The founder Chairman, Shri M Sanjeeva Reddy was felicitated on the occasion. The three invited speakers to deliver lecture on the theme of the day " ICT for Common Man" were **Dr T Kishore Kumar**, Asst Prof in ECE, NIT-Warangal; **Dr C V Krishna Reddy,** Principal, VSM, Engg College, Hyderabad and **Dr K Ashoka Reddy,** Prof & Head, Dept of E&I Engg, KITS-Warangal.

Lecture in progress at Warangal Sub-Centre.

- A lecture on **"Broadband and Value Added Services"** by **Shri S Bikshapathi, BSNL,** RTTC, Hyderabad, was conducted by the sub-centre on Sept 28, 2008.

ISF ACTIVITIES

The activities conducted by various IETE Students' Fora were:-

- **ISF** at **G Narayanamma Institute of Technology &**

Science, Hyderabad, was inaugurated on July 19, 2008. It included contests on paper presentation, poster presentation and Aptitude & Skill tests.

- A one-week STTP on "Mathematical Applications in Engg" was organized by **Dept of ECE/ Telecommunication/ Mathematics** and **PAC, IETE** at **JNNCE, Shimoga,** in **Aug 2008.** The resource persons were: Dr A N Shantharajappa on "Graph Theory & Its Applications"; Shri S V Sathyanarayana on "Modern Algebra and Probability and RP & Applications"; Shri J Ashok on "Operations Research (OR) & its Application"; Ms T Nirmala and Ms Shaila S Bhat on "Numerical Analysis and Complex Numbers"; Shri S Amarappa on "Application of Probability in Communication Systems"; Shri H K Harish on "Transform Analysis (Laplace Transform(LT), Fourier Transform (FT) & ZT); Shri Shridhar Adiga on "Laplace Transform(LT)" and Dr Girish Kumar E on "Probability & RP& Applications". Shri Pradeep H K conducted MATLAB lab-sessions. In **Oct 2008** a three-day workshop on Soft Skills was organized for 5th Semester of E&C and TCE students.

- **Shri Muthukumaran Institute of Technology, Chikkarayapuram, Mangadu, Chennai,** conducted a national level technical symposium on **Sep 09, 2008.** The Chief Guest, Shri J C Prasad, GM, BSNL, Chennai, spoke on recent advancements in the field of communication and & its network. Students from various engineering colleges participated in the paper presentation, technical quiz and circuit debugging events that were held during the symposium. Cash prizes were awarded to the winners. Students presented papers in the field of embedded systems, medical electronics, nanotechnology and wireless networks.

- An Intercollege Quiz Competition "Parakh" with students from colleges of Ujjain region was conducted by **ISF Mahakal Institute of Technology Ujjain,** on 13th & 15th Sept 2008. It contained Aptitude, English, Logical Reasoning and Gen Knowledge tests. An audio visual quiz in the second phase was organized based on technical, medical, sports and general awareness. A seminar "Vyakyan" on the theme "Recent trends in IT

Industry" by IBM experts from Indore was also arranged.

- **ISF** at **ECE Dept of V R Siddartha Engineering College, Vijayawada,** conducted a "National Level Hardware Contest" in view of Engineering's Day celebrations on **Sept 15, 2008.**

- **ISF** inaugural function was held in **SRM University, NCR Campus, Modinagar,** on **Sept 19, 2008.** The Chief Guest, Col I S Jaiswal, Chairperson, IETE Meerut centre presided over the function. The function was marked by lectures of Col Jaiswal, Prof P D Ravi Kumar, HOD/ ECE Dept; Dr Ranjana Dubey, HOD/ S&H Dept and Shri Amit Gangopadhyay, IETE member.

- The 4th ISF under Palakkad sub-centre was inaugurated at **College of Applied Science**, **Vadakkancherry, Palakkad,** by Dr M R Vikraman, Principal NSS College of Engg & IETE Palakkad sub-centre on **Sept 19, 2008.**

- Prof K Raja Rajeswari, Chairperson, IETE Visakhapatnam centre, inaugurated a new IETE Student Forum at **Chaitanya Institute of Science & Technology, Kakainada** on **Sept 19, 2008.**

- **ISF** at **RVR & JC College of Engg, Guntur,** conducted a lecture on "Image Processing Applications in Remote Sensing" by Shri R Chandrakanth, Head, SIPD, ADRIN, Secunderabad on **Sept 19, 2008.**

- **ISF** of **Dept of Electronics & Telecommunication** in the **KIIT University, Bhubaneswar**, was formally inaugurated on **Sept 25, 2008.** The Chairman of Bhubaneswar centre, Shri S C Joshi, CGM, BSNL, was the Guest of Honour. The others present were: Prof S C De Sarkar, VC, KIIT University; Shri S K Prusty, DGM, BSNL & Hony Secy of local centre and Shri N K Moharana, Vice President & Chief Technical Officer, Reliance Communication Ltd, Orissa, Bhabaneswar.

- A national level tech fest –"Commutronics'08" was organized by **VT Patel Dept of Electronics & Communications, ISF- CITC** and **IETE Vadodara centre** on **Sept 26-27, 2008** at Changa, Vadodara. Dr Ashedu Pandey, Head, EMRI Gujarat, was the Chief Guest and Prof Satish Shah, Hony Secy & Coordinator Student Forum, Vadodara centre, was the Guest of Honour. Dr M C Patel, Secy, Shri Charotur Moti Styavis Patidar Kelavni Mandal, Anand, presided over the function. The technical function covered eight events spread over two days. There were about 750 participants from 35 engg colleges across the country.

- **Babaria Institute of Technology-ISF, Vadodara,** conducted inter class non-technical quiz competition and an expert lecture by Shri Nitin Paranjpe, MD, Edutech Systems, Baroda on **Sept 30, 2008.**

- One-day national level technical symposium, FRACTALS 08-09, was conducted at **ISF Sona College of Technology,** under the aegis of Salem sub-centre on **Oct 04, 2008.**

- A seminar on "Emerging Trends in TV Broadcasting – HDTV and Beyond" was organized by **Electrical Engg Dept, IETE Vadodara Centre** and **MSU IETE Student Forum** by Shri Anupam Bhatia, Asst Technical, Doordarshan, Vadodara on Oct 11, 2008 at DST- FIST Research Laboratory Kalabhavan, Vadodara. Shri M S Duhan, SE, Doordarshan, Vadodara was the Guest of Honour. Shri Bhatia explained standards, features, specifications and image formats used in HDTV. He explained encoding of MPEG2 format & its use in transport layer of HDTV. He discussed the audio-video coding, bandwidth requirement in HDTV standards 1080i, process of broadcasting, and availability of HDTV receivers in near future. Talking of 11th Five Year Plan of Planning Commission's Working Group on Information and Broadcasting report, he said that it stresses on the importance of and the need to establish HDTV. The Central Govt believes that HDTV format is fast catching up globally and needs to be established before 2010 for the telecast of Commonwealth Games in Delhi before 2010 and later across the country. The future plans of Doordarshan and other Private Service Providers in the domain were mentioned by the speaker.

Hony Secy, Prof Satish Shah of IETE Vadodara centre proposed vote of thanks.

● Inauguration of **ISF** at **PA College of Engineering and Technology, Pollachi,** by Prof K Gangadharan, Immediate Past Chairman of IETE Coimbatore Centre.

● **ISF** at **Indo Global College of Engg, Abhipur (Mohali)** organized two invited lectures on **Nov 10, 2008** to commemorate Foundation Day of IETE. Dr R N Nauhria, Principal of Indo Global College of Engg and Technology and patron of students' forum gave a talk

on "Business Management in IT industries" –its emerging trend, objectives and key components. He laid emphasis on software and hardware technology and its TLC's values ie- care, comprehension, commitment, communication and common sense during business management. Prof Basudeo Prasad, Head of Electronic and Communication Engg Dept and Chief Co-ordinator of students' forum gave a talk on the topic of Emerging pollution, real time monitoring, data acquisition and PC based instrumentation. He also discussed the role of common man to curb the rising pollution level and sustainable development.

REQUEST TO ALL ESTEEMED IETE MEMBERS, CENTRES AND SUB-CENTRES FOR PUBLICITY OF IETE AWARDS FOR EXCELLENCE – 2009

"Call for Nominations" for various IETE Awards-2009 are being published in Nov-Dec 2008 issues of IETE journals. The details and proformae of these awards are also available on IETE website: **www.iete.org.** Kindly give wide publicity to these awards and encourage large nominations through your 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,
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        mgeditor@iete.org;
Telephones: 011-43538842 to 44.

REQUEST TO ALL IETE CENTRES AND SUB- CENTRES FOR PARTICIPATION IN IETE-NATIONAL TECHNICAL PAPER CONTEST (NTPC)– 2009

The IETE-National Technical Paper Contest (NTPC) – 2009 is being organized by IETE, Mumbai Centre during March 7-8, 2009. Last date for submission of Technical Papers: **14 Feb 2009.** Intimation to authors of short listed papers will be communicated by IETE-Mumbai Centre. Guidelines and details are available on IETE Mumbai Centre website: **www.ietemumbai.org.** All IETE Centres and Sub-Centres are requested to encourage participation by IETE Student Members, the Engineering Students and Members of IETE Students' Forums (ISFs) in their respective areas. IETE Mumbai Centre would be mailing the requisite information in this regard. For further details and clarifications, please contact :

IETE Mumbai Centre,
email: mumbai@iete.org and
telephone: 022-25536391.
Cooperation of all IETE Centres/ Sub-Centres is solicited.

Inter College Quiz competition "Parakh" in progress.

Inauguration of 4th ISF under Palakkad Sub-Centre.

New ISF at Chaitanya Institute of Science & Technology, Kakinada.

ISF, PA College, Pollachi, during Lecture Series.

A view of the dais during national level techfest "Commutronics'08" at Vadodara.

Valedictory function of the STTP on "Mathematical Applications in Engineering" at JNNCE, Shimoga.

● **Request to Chairpersons of IETE Centres / Sub-Centres for getting proposals for IETE Research Fellowships**

In pursuance of one of the main objectives of IETE for Research activities, IETE has instituted research fellowship scheme from the year 2004. Suitable proposals under this scheme may please be requested from academic Institutions and IETE students from your area. Details of IETE sponsored Research Fellowship scheme are available on IETE website : **www.iete.org.** Your assistance in this regard will be greatly appreciated.

● **For information & wider publicity**

The Course curricula for AMIETE & DIPIETE have been revised and will be effective from June 2009. Grading system will also be effective from June 2009 for both old and new scheme. Details are available on **www.iete.org** and **www.iete-elan.ac.in**
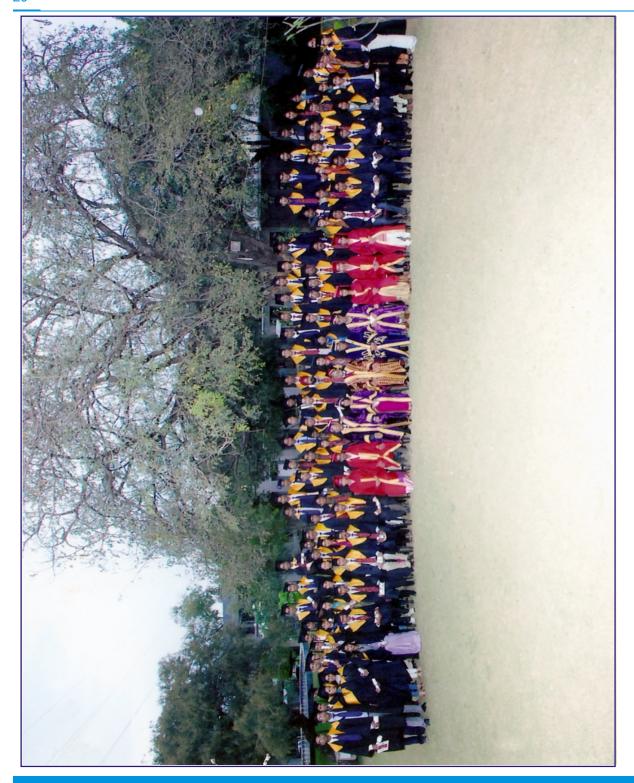
● **Corporate Members: Latest Address, Tel Nos, e-mail ID**

A large number of communications are being returned as undelivered as Members have not updated their addresses, telephone numbers and e-mail IDs. Members are requested to check their mailing addresses, Tel Nos and e-mail IDs on our websites: **www.iete.org** and **www.iete-elan.nic.in** and send their requests for updating of details. Those members whose photographs are not displayed are requested to send their photographs for uploading.

● **ERRATA : Newsletter, Vol 10 No.5, Sept-Oct 2008 issue**

1. Page 4, Column 1, Para 1: Information concerning IETE Award Ceremony was inadvertently interchanged. The correct awardees are: the 1st Best Centre Prize for the year 2007-2008 was bagged by IETE Ahmedabad Centre; 2nd Best Centre Prize went to IETE Kochi Centre while the 1st Best Sub-Centre Prize went to Rajkot Sub-centre.

2. Page 6, Column 1: The first two photographs placed vertically have the wrong captions. The correct captions are: 1st photograph: 1st Best Sub-centre Prize – IETE Rajkot sub-centre. 2nd photograph: 1st Best Centre award -IETE Ahmedabad Centre.

The errors are sincerely regretted.

IETE - Graduates 2007-08