

FROM PRESIDENT'S DESK



We are living in an era where the technology is providing immense opportunities to deliver its benefits to the grass root level. Growth in technology will help to explore the potentials of ICTs as well. The educationists, policy makers and researchers, therefore, lay stress on reaping the benefits of ICTs for rural development and effective education system. The Govt. of India too has laid stress to introduce ICTs in sectors like healthcare, media, entertainment, energy and education. In fact, the Govt. has announced 2010-2020 to be the decade of innovations that could see ICTs being completely integrated into Indian

Education System. Now the onus to boost country's global competitiveness and to realize its promising prospects does not remain only on the Govt. bodies but also on other Institutions. In such challenging and testing times, IETE is fully aware of its role on the technological front. The Institution has been continuously tapping and translating the potentials of ICTs to set the tone for growth in rural and semi urban areas. The basic purpose is to urge the professional community to address the challenges so that the benefits of ICT reach the interiors of our nation.

ICT, without doubt, is the powerhouse which can actually provide solutions for generating sustainable economic growth & prosperity. But it cannot succeed on a stand-alone basis and needs to be supplemented by other academic and research programmes to facilitate cross-flow of information. Inclusion of new areas in IT services like healthcare, bio-informatics, clinical trials & associated research, logistics etc have actually given Institutions like IETE more opportunities to reach out to vast community members and rural masses where the future of India lies. We have been tailoring our themes to extend reach and increase impact for inclusive rural development.

ICT related topics were made central in almost all discussions held under the aegis of IETE to benefit that part of the population which is at the risk of being left behind. The yearly event of World Telecommunication & Information Society Day concentrated on "Better Life in rural communities with ICTs"; recently concluded IETE Apex Forum held wide-ranging discussions on "Tele-healthcare in Rural India - Perspective and Challenges" to emphasize on the deliverance of quality healthcare services to the rural and remote areas in the country; technical talk delivered by Dr Ramjee Prasad revolved around standardization aspects in the Telecom Sector and the contributions of the Indian Broadcast Industry were highlighted through a recently held seminar on "New Horizons in Broadcasting". The theme "ICT in Rural Development" chosen for IETE's 54th Annual Technical Convention (ATC) to be held during September 2011 at Ahmedabad, too revolves around the same efforts. It promises to be a lively forum for identifying opportunities of Information and Communication Technologies in the rural sector. I take this opportunity to invite members to participate and take part in the deliberations of the Convention.

For providing due stimulus to the national policies, IETE forwarded its recommendations on the National Telecom Policy-2011 to the Ministry of Communications & IT as well as Ministry of Science & Technology and received good response. IETE is hopeful that new Telecom Policy will meet the expectations of all concerned by setting new paradigms in the industry. The other defining moment last month was signing of an agreement between IETE and Sai Advance Infosystems Pvt Ltd, Noida, to accredit the skill development programmes in computer courses.

I sincerely thank all the senior as well as young members of IETE fraternity, who are working devotedly for IETE activities ensuring high academic standards in the seminars and symposia conducted by us thereby contributing relentlessly to its profession.

R K Gupta
R K Gupta

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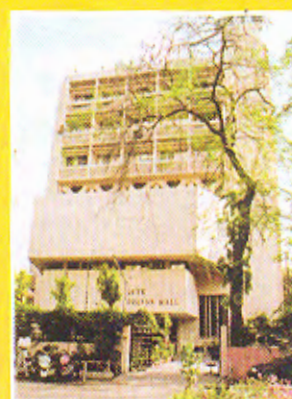
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सह दीर्घ करवावटें

IETE Distinguished Fellows Elected 2011



Shri A Bhaskaranarayana has been elected as **Distinguished Fellow of IETE** for 2011 for contribution in the field of Communications. Shri Bhaskaranarayana has done pioneering work in the area of Satellite Systems and Communication Satellites in India. He held various important positions in Indian Space Research Organization during the period of 1972-2008. He was Scientific Secretary, Director-Satellite Communication Program, Director-Frequency Management Office and Director of Satellite Application Program. After his retirement in 2008, he was Dr Vikram Sarabhai Chair Professor at ISRO upto 2010. Presently, he is Pro-Chancellor at K L University in Guntur District, and is engaged in

restructuring the Under Graduate, Post Graduate and Doctoral Programmes. Shri Bhaskaranarayana has specialized in RF/Microwave area and was the Principal Designer of RF Systems for Indian Remote Sensing Satellite (IRS) Systems and the Indian National Communication Satellite System (INSAT). Under his guidance the High Bit Rate Data Handling Systems and TTC Systems operating in S, C and KU Bands have been developed. He was the Project Director of INSAT 2E, which has developed and qualified several state-of-the-art technologies and a forerunner for Communication Satellite Systems. He has developed a comprehensive satellite application program which includes Telemedicine, Tele-education and Village Resource Centres using ISRO's communication satellite infrastructure. He has published more than 30 papers in national and international journals and co-authored three publications. He has won several awards which include 'Outstanding Achievement Award' for Aryabhata, NRDC Award for 'High Data Rate Transmission System', 'Astronautical Society Award' for Satellites and Systems and many individual and group awards of ISRO. He is a founder member of Telemedicine Society of India and served as its President from 2007 to 2010. He has worked as a Consultant to UN on 'Enhancing Pacific Connectivity'. He was the Vice-Chairman, IETE Bangalore Centre and was elected to IETE Council for 2007-2010.



Dr Shyam Sunder Agrawal has been elected as **Distinguished Fellow of IETE** for 2011 for contribution in the field of **Electronics & Communications**. Dr S S Agrawal is a World renowned Scientist in the areas of Acoustics, Speech and Communication. He obtained PhD in 1970 from All India Muslim University. He has research experience of about 45 years, first as a Scientist at the CEERI, Pilani and subsequently as Emeritus Scientist of CSIR and then as an Advisor to C-DAC, Noida. He has worked as Guest Researcher at MIT, Cambridge and UCLA in USA and visited many universities and research institutions in USA, UK, France, Germany, Sweden, Italy, Japan and other Asian countries. His major

areas of interest are Speech Perception, Speech Synthesis, Speech/Speaker recognition and Development of Speech databases in Indian languages. He has published/presented about 200 papers in national/international journals and conferences, edited conference proceedings and written chapters in professional books. Received large number of honours, awards and fellowships. Some of these include Sir C V Raman Award by Acoustical Society of India, Internationally Eminent Acoustician Award and Gold Medal from Acoustic Foundation and Acoustic Society of America, Best Project Award by CEERI, Achut Menon Award, Senior Fulbright Fellowship, UNDP Fellowships and Sr East-West Centre Fellowship. He is a Fellow member of a number of professional societies. He has been President of Acoustical Society of India and the Board Member of International Commission on Acoustics; Vice President of ISA (USA); Country representative of O-COCOSDA, A-Star consortium and member of Indo-Japan Forum of NICT. He has served IETE for a long time in various capacities such as Chairman of Delhi Centre, Council Member for nine years, served as its Vice President, Honorary Treasurer, Zonal Coordinator and Chairman of many Committees. He was responsible for establishment of IETE's EDUSAT facilities. He is currently working as Director General of KIIT Group Institution and steering their academic & research programs in Institutions of Higher Learning and engaged in several national and international collaborative research projects.

The IETE Distinguished Fellowship will be conferred at the inaugural session of 50th Annual Technical Convention scheduled to be held at Ahmedabad on 24 Sept 2011. Congratulations to Shri A Bhaskaranarayana and Dr S S Agrawal on their election as Distinguished Fellows of IETE.

News From Headquarters

43rd World Telecommunication and Information Society Day 2011

IETE celebrated the 43rd World Telecommunication & Information Society Day on 17th May 2011 at Delton Hall, IETE Hqs, on the theme "**Better Life in Rural Communities with ICTs**", covering a diverse range of issues on rural development through ICTs. **Dr Dilip K Bandyopadhyay**, Vice Chancellor, Guru Gobind Singh Indraprastha University, Delhi, graced the event as the Chief Guest and **Shri Rakesh Kumar Upadhyay**, CMD, BSNL & TCIL, as the Guest of Honour. The other dignitaries who shared the dais with them were: **Shri R K Gupta**, President IETE; **Maj Gen K B Jhaldiyal, AVSM (Retd)** Chairman, Technical Programmes Committee and the distinguished speakers **Shri Deepak Maheshwari**, Director (Corporate Affairs), Microsoft Corporation Pvt Ltd; **Shri P K Garg**, Member, Radio Regulation Board, ITU; **Shri Dilip Chenoy**, CEO & MD, National Skill Development Corporation and **Shri R N Padukone**, Principal General Manager (Corporate Planning & Monitoring), BSNL.

The celebrations started with the welcome address by **Maj Gen K B Jhaldiyal, AVSM (Retd)**, who welcomed the dignitaries and sensitized the audience about the importance of the World Telecommunication Day. In his address he emphasized the importance of ICTs for better life in rural communities. The Presidential address was delivered by **Shri R K Gupta**, President IETE, who accentuated IETE's commitment towards social justice, industrial development and enhancement of human

resources in the field of telecommunication engineering and information technology. He said that IETE believed in building the inclusive knowledge society and connecting the unconnected and hence always try to choose rural centric themes for most of its programmes. He said that ICTs the answer to many problems, help in improving the life style of many people and could steer the institution towards its thrust areas. Accordingly, if private and public sectors join their hands together, then the real challenge of providing ICT facilities to the doorsteps could be tackled easily.



Prof (Dr) Dilip K Bandyopadhyay, VC, GGSIPU, Delhi, giving the inaugural speech during World Telecom & Information Society Day

In his address, the Chief Guest, **Prof (Dr) Dilip K Bandyopadhyay**, Vice Chancellor, Guru Gobind Singh Indraprastha University, Delhi, said that with the changing society values country was fast becoming a knowledge society with the help of ICTs. To test the technological innovation in the country in the rural context, provide quality education to rural masses with the help of ICTs and that would result in the changed mindsets. He said that though IT revolution had set in, there was a long way ahead to connect the rural areas and enhance empowerment of the masses and it was high time that we looked into the upliftment of rural populace by providing the benefits of ICTs to rural areas. The Guest of Honour, **Shri Rakesh Kumar Upadhyay**, CMD, BSNL & TCIL, speaking on the occasion, outlined the progress made in the area of telecommunications and the contributions made by ITU. He said that the theme of the day was in



Shri R K Gupta, President IETE, addressing the audience during WTISD-2011 at IETE HQ, New Delhi

sync with the progress made in ICTs, which has helped empowering the nation in data extension, education, health, trade, commerce and above all governance at rural level. He also pointed out the crucial role of telecom operators in providing telephone connectivity in this context. He talked of 'Bharat Nirman Programme', wherein rural community was provided phones and direct exchange lines; BSNL partnership with the Govt. of India for establishing Kisan Call Centres for providing connectivity throughout; installation of Broadband Kiosks by BSNL and establishing of Rural Public Service Terminals to be manned by people living in rural areas.

Shri Deepak Maheshwari gave presentation in the national language, Hindi on "**Better rural life with improved Information and Communication Techniques**" emphasizing on various telecommunication techniques developed especially for rural India, which included mobile connections, broadband facilities, computing in Indian languages and development of software, windows and Microsoft office in 22 Indian languages. **Shri P K Garg** highlighted the importance of the day for bridging the digital divide with the use of ICTs. He also highlighted some critical issues in regard to development of applications and suggested that the urban infrastructure & services could be provided in an integrated manner in rural hubs to create economic opportunities. Although Government efforts in this direction were visible but the simple & sincere efforts by all stakeholders could help achieve the objectives even with relatively modest funds/investments, he said. IETE

having enormous pool of talent in the ICT fields, could help plan cost effective networks for taking the electronic connectivity and ICT services to rural areas expeditiously and at affordable tariffs, were his remarks.

Highlighting the problems in rural India, **Shri R Padukone** stressed on the need for extensive use of ICT for generating income and curbing the migration of people to cities. In the broadband spectrum, lower frequencies were more valuable than higher ones because of high coverage. He called for attention on a holistic long-term policy for spectrum usage. He indicated the need for allocation of 60 MHz spectrum for exclusive use in rural sectors. **Shri Dilip Chenoy** emphasized on skill development in people of rural India. He reminded that the digital divide was among those who had & had not access to the technology, therefore the focus should be on linking IT with daily occupations of the rural people, viz. farming, fisheries, art & craft to enable them earn more for their livelihoods. He also said to focus the attention on skill development to help the rural community contribute in meaningful ways without feeling marginalized. He proposed opening up of more BPO/Call Centres at remote villages rather than in metros at high cost.

The audience comprised of Past President, Distinguished Fellows, Governing Council Members, Corporate Members, students and staff of IETE and officials of other departments. The ceremony ended with a vote of thanks by **Shri S R Aggarwal**, Secretary General, IETE.

IETE Apex Forum

The issues deliberated in the IETE Apex Forum at Ahmedabad on 11th May 2011 were of national importance as they were on providing quality healthcare services to the rural and remote areas in the country. The endeavour was to bring doctors, scientists, engineers, subject experts, students, policy planners & equipment manufacturers on a common platform to identify the ground realities on lacking medical facilities in the rural India and find out some ways for collective efforts in that direction. The forum on "**Tele-healthcare in Rural India- Perspective and Challenges**", received good response and was a huge success. The dignitaries present on the dais were: **Dr Gulshan Rai**, DG, STQC, Dept of IT, M/o Communications & IT, Govt of India, the Chief Guest; **Shri R K Gupta**, President IETE; **Shri P P Malhotra**, Vice

President & Chairman, ICC; **Prof S K Mishra**, Head, Dept of Endocrine Surgery, Faculty Incharge, School of Telemedicine and Biomedical Informatics, SGPGI, Lucknow, the keynote speaker; **Smt Smriti Dagur**, Zonal Coordinator (West) and **Shri Madhukant Patel**, Chairman, IETE Ahmedabad Centre. Shri Patel delivered the welcome address. In his address he mentioned that even after 40 years and with so much of advancement in the country some of the villages had no doctors & villages had to travel long distances to get the care. In this context the advent of tele-healthcare could be a boon to such villages. **Smt Smriti Dagur** apprised the audience about the IETE activities of West zone and about the achievement of Gujarat in terms of electricity, roads and water management.



Apex Forum on "Tele-Healthcare in Rural India" seated L-R are : Smt Smriti Dagur, Dr S K Mishra, Dr Gulshan Rai, Shri R K Gupta, Shri P P Malhotra and Shri Madhukant Patel

Shri P P Malhotra, presenting overview of the theme mentioned about IETE's intent for working towards ICT for rural sector and IETE's special focus on conducting series of such programmes for use of ICT for rural development in the areas of education and healthcare. Pointing at the gap that persisted in spite of advancement in communication technologies and pilot projects on "Tele-medicine" launched by Central Govt in rural areas, he said that a large section of rural countrymen was still deprived of medical facilities. He said that the objective of the forum was to assess the present scenario of Tele healthcare in Rural India in terms of effectiveness of the available technology solutions and challenges; understand each other's requirements, strengths and issues and to work together for improvement in rural healthcare system. His concerns were with the need towards framing the telemedicine standards, examining legal issues, capacity building, infrastructure and availability of resources.

Shri R K Gupta in his address, mentioned about the events recently conducted by IETE with focus around crucial issues of the country, like Cyber Security, Fixed Mobile Convergence, National Telecom Policies, IP-TV etc. He said that to be part of rural development, IETE has been organizing different programmes, for instance conducting virtual class rooms, offering new courses for rural empowerment, holding workshops with AICTE, liaison with private training providers- to help the telecom revolution reach the village level. IETE & its Centres all over India, focused on the theme "Better Life in rural Communities through ICTs", chosen for World Telecommunication & Information Society Day celebrations by ITU this year. He informed that even for the Annual Technical Convention-2011, to be held at Ahmedabad, IETE will be concentrating on the issue how ICT could be leveraged for rural development and the theme being "ICT in Rural Development". The President opined that the improvement in education, healthcare & infrastructure at village level, could decrease the migration problems and resolve other critical issues related to broadband.

The keynote speaker, **Prof S K Mishra**, expressed his

views through a presentation on "Healthcare Delivery System-Indian Context". Explaining the demand and supply of services in India for different segments he supported his views with statistics. Extra spending by rural counterparts and availability of counterfeit drugs and its poor quality in rural areas, were his main concerns. He educated the audience on Millennium Development Goals (MDGs) towards health and major initiatives taken by Govt. of India for Rural-healthcare and spoke on other case studies. **Dr Gulshan Rai**, the Chief Guest made very simple and valid points to boost telemedicine in rural India. He said recognizing the need for telemedicine was essential. Creating large database of samples (like x-ray, ECG, MRI etc.) and using it to educate young doctors was also one form of Tele-medicine. Orientation with the objectives and goals was very important. He even cited example of UP, where Shri Mulayam Singh Yadav wanted to establish Super speciality hospital at Safaiv and needed qualified doctors for it. He was advised to put 24 mbps link between Safaiv and SGPGI, and a junior doctor was made to sit with patients at Safaiv. All diagnosis and medical advices were given from SGPGI. The doctor could take ECG, MRI and all other data from remote patients through network and the doctors from SGPGI could offer super speciality treatment remotely. He emphasized on the need for building the value chain; dedicated and focused programs; high bandwidth; conserving of investments; data security; network reliability and a strong legal system to support and prove Tele-medicine as successful means for rural-healthcare.

The technical session chaired by **Dr Gulshan Rai** had the expert panelists, which included: **Dr S K Srivastava**, Director, DIT, New Delhi; **Dr P K Sinha**, Senior Director, C-DAC, Pune; **Shri Vikram Desai**, Head Telemedicine Divn, SAC, ISRO, Ahmedabad; **Shri S K Bhandari**, PGM, BSNL, Ahmedabad Telephone and **Dr S R Avashia**, Dy Dir, Medical services & Nodal Officer, IT. **Dr S K Srivastava**, spoke on "Telemedicine in India: Contributions of DIT", touching upon the development of enabling technology, telemedicine consultation softwares and the features of developed telemedicine platforms. According to him the involvement of users, need of nodal doctors, consultation facility, built in monitoring systems and good administrative procedures were necessary for success. **Dr Pradeep K Sinha** presented scenario of 21st Century Healthcare Perspectives & Challenges. He talked about "Impediments to Better Rural Healthcare", but also emphasized on the power of socio-political will. He talked on C-DAC's Contributions in terms of products, solutions & technologies. **Dr Vikram Desai** spoke on "Health for remote rural areas - ISRO's technological solution" He said that use of Satellite Communication technology to aid in providing quality health advice in rural areas was envisioned by ISRO and successfully established

Telemedicine in the country. Synergic use of medical knowledge, information technology and satellite communication could results in successful implementation of telemedicine in the country, he commented.

Shri S K Bhandari gave statistics of the BSNL network highlighting the achievements & future plans of BSNL. He told about BSNL's deployment of networks for Tele-education and Tele-medicine through intranet, & internet. The network could be used for Tele-training, Tele-pathology doctors and researchers. Data like Radiology etc. could be stored on the network so that the patients need not to worry about bringing records while coming to hospital. He said that in times to come, one network, one provider would provide all the necessary services like voice, data, video, internet, video phone, video conferencing etc. **Dr S R Avashia** talked of the scope of tele-healthcare, viz. homecare and ambulatory monitoring; telementored procedures/ surgery robotics; second opinion and complex interpretations; remote consultation and critical care monitoring; disease surveillance & program tracking; continuing medical education and public awareness; disaster & disease management. He also discussed the present day challenging issues in tele-healthcare.

There was good response and interaction from the audience. **The salient recommendations that emerged from the forum were:** Finances, trained staff, connectivity, electricity, dismal doctor/people ratio (about 1700:1, compared to 390:1 in US—it would be worst in rural sector); non-adherence to Medical and IT Standards; legal issues,

high operational & maintenance cost are the major impediments to better healthcare in rural India; Lack of coordination between specialists and the doctors at patient end.—dedicated State Coordinator for tele-medicine to be provided; Train paramedical/alternate medical personnel to play as interface/facilitator in interacting with patients; Promote ICT in Rural Healthcare Programs—to provide basic health check-ups and monitoring systems in rural village communities; To promote cost effective technologies of diagnostic and therapeutic and emergency efficient devices for rural health care services; Review the pilot scale telemedicine models/programs; technologies of Govt agencies concerning performance, reliability, interoperability and scalability for establishing cost effective & sustainable telehealthcare delivery systems in rural india.; Promote telemedicine as a tool for patient awareness, second opinions, complex interpretation, critical care monitoring, where it is not possible to transfer the patient; Establish standards & interoperability (Devices, networks, Software); for secure physician-patient interaction and data exchange; Establish a strong legal system to support and prove as successful mean of Rural healthcare; Incentives to nurses/ doctors/ specialists in rural healthcare programs; To introduce "Tele-Healthcare" as a full length subject in curriculum of Medical Science and engineering; Govt. to focus on establishing telemedicine kiosks at Grampanchayats and multiple towers at remote villages and educate people on effective use of resources; Provide end to end reliable broadband connectivity, privacy and security for Tele-medicine requirements.

Seminar on "New Horizons in Broadcasting"

A Seminar on 'New Horizons in Broadcasting' was organized by IETE on 27th June 2011 at India Habitat Centre, New Delhi, and co-sponsored by some prestigious national and international broadcast agencies/ organizations. The Chief Guest, **Shri Raghu Menon**, Secretary, Information and Broadcasting, could not attend the occasion due to some unforeseen reasons and was represented by **Shri Arvind Kumar**, Joint Secretary, Ministry of Information and Broadcasting. The other dignitaries present on the dais were: **Shri Pawan Chopra**, Former Secretary, Ministry of I & B; **Shri K S Sarma**, Former CEO, Prasar Bharti, the keynote speaker; **Shri R K Gupta**, President IETE; **Maj Gen K B Jhalldiyal, AVSM (Retd)** & Chairman, Technical Programmes Committee; **Shri P S Sundaram, MD**, Technomedia Solutions Pvt Ltd, Convener of the seminar. The welcome address was delivered by Maj Gen Jhalldiyal, AVSM (Retd). Giving the overview, Shri P S Sundaram, pointed out the need to deliberate on the issues of Govt Regulatory policies; on challenges of running a channel, and

on resurgence of traditional radio with latest technology like DRM.



Shri Pawan Chopra, Former Secretary, Ministry of I & B, addressing the audience at Seminar

In the presidential address, **Shri R K Gupta** emphasized the role of broadcasting for connecting

unconnected and working on building a inclusive knowledge society. He said that entertainment, information & education were the main aims of broadcasting but it has still to catch up in the field of education. He stressed on the issues like formation of a broadcast regulatory authority similar to that of TRAI; framework of national broadcast policy and privatization of terrestrial transmission of TV. **Shri Pawan Chopra**, in his address hinted at freedom of expression and the role & accountability of media for quality programmes, for which he said, formulation of national broadcasting policy was important. **Shri K S Sarma** was of the view that by 2020, internet would swallow broadcasting due to swift and rapid development of the web. He said that today's web was a small reflection of the magnitude to be acquired by 2020. He stressed on some kind of regulations on the channel programmes as well as on internet for tackling the need related to piracy, copy right, etc. Demystification and transparency were the needs of the times, according to him. **Shri Arvind Kumar** read out the address of **Shri Raghu Menon**, the Chief Guest and highlighted the significant developments in the arena of broadcasting with marked shift in the technologies, increased requirement of indigenous manufacturing of set-top boxes, low cost solutions for community radio stations, quality of contents, self certification and regulation on growing number of channels.

The 1st Technical Session on "Need for Dynamic Regulatory Policy for Broadcasting Sector" was chaired by **Shri Pawan Chopra**, Former Secretary, Ministry of I & B and started with the presentation of **Ms Nisha Narayanan**, Sr V P, South Asia FM Limited (RED FM), Noida, who focused on various issues concerning FM radio broadcasting as well as indigenous manufacturing of broadcast equipment at low cost & comparable quality. Answering her, **Shri Arvind Kumar** said that some issues were under consideration of TRAI; emphasizing no capping on number of channels; digitization of news channels and promoting the self monitoring efforts by the Govt. **Shri R R Prasad**, Former Engineer-in-Chief, Doordarshan in his presentation on "Regulatory Considerations for Broadcasting" stressed on a need for comprehensive Regulatory provisions in Broadcasting Sector, obvious coexistence of different services in future technologies besides need of incentives for operating spectrum efficient systems and digitalization of broadcast network in a time bound manner.

The 2nd Technical Session on "Challenges in TV Delivery through Multimedia Platforms" was chaired by **Shri A K Bhatnagar**, Engineer-in-Chief, Doordarshan, New Delhi. The speakers in this session included: **Shri Chellam Bose**, Technomedia Solutions Pvt Ltd, who spoke on "Television Delivery through Multiple Platforms – Issues and Trends" highlighting current & emerging trends in TV telecasting in detail and discussed the ways by which the broadcasters could build the next generation TV around

emerging trends. **Mr Steve Foy** of Tektronix UK, talked on "IPTV – Challenges & Opportunities", touching upon the issues like IP cross layer timings, multiplex monitoring, multiplex diagnostics. **Shri Rajiv Khattar**, President Projects, Dish TV India Limited, Noida, remarked in view of high taxes, high licensing fee and bringing down of the inter-operability cost. "Multimedia Broadcast and Multicast Services in 4G Networks" by **Shri Nadeem Akhtar**, Senior Research Engineer, CEWIT, IIT, Chennai, highlighted the factor of Multimedia Broadcast and Multicast Services (MBMS) which was a feature specified in 3GPP Specs for GPRS, EDGE, WCDMA and LTE.

Shri Yogendra Pal, Chief Engineer, AIR, was the session chairman for the 3rd Technical Session, "Viable Technological Options for the Growth of Radio". The speakers in this session included: **Mr Daniel Braverman**, MD, Radio Systems, USA, on, "DRM+ Digital Radio Mondiale for the growth of Radio", with highlights on the activities of Radio Systems and its products. According to him, DRM was the cost efficient broadcast solution with more choice, excellent audio quality, multimedia applications, emergency warning and alert features and automatic tuning. **Mr Charlie Gawley** of Teline Technology, Australia, described the activities of Teline Technology in his presentation "Towards new horizons in Broadcasting – walking the path hand in hand". He highlighted the benefits of audio over IP in terms of low cost, flexibility reliability. **Shri P Das**, Director (Planning), AIR, New Delhi, talked on "Digital Audio Storage Technologies" with an overview of technical issues and features of digital broadcasting and use of multimedia. He talked on the future trends in broadcasting technologies, which include broadcasting to media organizations, audio to multimedia transformation, ease of availability – anytime, anywhere and multichannel & multiplatform delivery.



President IETE, presenting the Memento to Shri K S Sarma, Former CEO, Prasar Bharati, the Keynote Speaker

The seminar, which on the whole was a great success, ended with presentation of mementoes and vote of thanks by **Shri S R Aggarwal**, Secretary General IETE.

Industry-Academia Partnership

To respond to the challenges of global competitiveness and technical workforce development, IETE Governing Council have intensified their academic activities Promoting the needs of ICT penetration and skill gaps, which is significant to India's growth and future, IETE has decided to take up the task of accreditation of skills development courses at private relevant institutions. IETE has signed a Memorandum of Understanding with

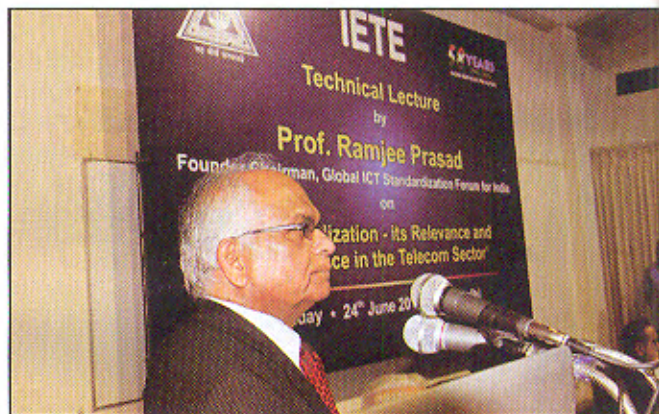
the Institution called SAI ADVANCE INFOSYSTEMS PVT. LTD, NOIDA on 2nd June 2011 and accredited its courses in the field of Computer Hardware & Peripherals Networking/Maintenance. Apart from playing an important role in plugging the demand supply gap scenario, this partnership will increase the visibility of IETE as well.

Technical Lecture on 'Standardization – Its relevance & importance in the Telecom Sector'

A technical lecture on 'Standardization – Its relevance & importance in the Telecom Sector' by Dr Ramjee Prasad, Founding Chairman, GISFI and Director CTIF, Aalborg University, Denmark, was organized on 24th June 2011 at IETE Hqs, New Delhi. The other eminent personalities & speakers present on the occasion were: **Shri R K Gupta**, President IETE; **Shri T R Dua**, Vice Chairman, GISFI; **Maj Gen K B Jhaldiyal, AVSM (Retd)**, Chairman, Technical Programmes Committee and **Sh S R Aggarwal**, Secretary General, IETE. The speaker was given a warm welcome by the IETE members.

Dr Ramjee Prasad an imminent and world renowned scientist in the field of Multimedia Communications and Information Technology, holds the Chair of Wireless Information & Multimedia Communications at the Aalborg University, Denmark. A Fellow of ITE, IEEE and IETE, Dr Prasad had significantly contributed for the development of Wireless Communications especially at fundamentals. He is the recipient of a very rare award, like 'Bharat Ratna' given by the Danish Government called the 'Cross of the Order of Cheverly'. He had long path of achievements and rich experience in the academics, managerial and research and business sphere of mobile and wireless communication areas. He played very important role in the success of future Radio Wide Band Multiple Access System.

Introducing 'Global ICT Standardization Forum for India (GISFI) and its functions, Dr Ramjee emphasized on the importance of standards and standardization. He said that standardization in telecom standards was important to close the gap created by disparities in various telecom vendor specifications. Elaborating the innovative research work being done at Aalborg University, Denmark, in the area of wireless communications, he said that the standardization in telecom sector was needed to establish trust & data ownership. ICT standards were vital for efficient manufacturing, better regulation, multi market access, for active markets and to encourage innovations and improve



Prof (Dr) Ramjee Prasad delivering the talk on Standardization

communications. He explained in details the vision, concept, research work, challenges and benefits of WISDOM (Wireless Innovative Systems for Dynamic Operational Megacommunications). Referring to the standardization activities in India, he advised on the ways to address the trends and challenges in Indian Standardization and informed about the various GISFI Standardization Task Groups functioning in India. He commented that GISFI Standards for Indian Telecom industry were equivalent to global & energy efficient communication standards with protection of sensitive and private user data in ubiquitous environment. Highlighting their efforts for telecommunication sector in India on various aspects, he classified challenges for Indian market in three categories viz. grad service, P2P over mobile networks, M2M in Indian Context, unsolicited communication, Cloud & the network and IT on mobile network. He concluded with the remarks on developing proper interaction among standardization bodies in India: enforcement of adoption of GISFI Standards in India with Govt. approval, participation of industry in creating standards; making the standards available for free to all; getting the whole Indian value chain involved in specific creation.

News From Centres

Agra

Celebrating the **43rd World Telecommunication Society Day 2011** on 17th May 2011, the Sub-Centre organized an essay writing competition on the topic **"Better Life in rural Communities with ICTs"** for the ITI students undergoing industrial training at 509 base Wksp Agra Cantt. The winners were awarded by **Brig Janaki Pant**, Commandant & Managing Director of Army Base Workshop and Chairman of the Sub-Centre.

Amravati

- The Centre, in association with Prof Ram Meghe College of Engineering and Management, Badnera, Amravati, celebrated **"World Telecommunications Information Society Day"** on 17th May 2011 on **"Better Life in Rural Communities with ICTs"**, and this event was clubbed with a two-day regional seminar on 16th -17th May 2011. A guest lecture by **Shri Rajesh Deote**, District Information Officer, Yavatmal, was arranged on the occasion. **Dr M S Ali**, Centre Chairman and Principal of Prof Ram Meghe College of Engineering & Management, Badnera, inaugurated the function. He highlighted the issues of e-Governance in his address. Lectures were delivered by other eminent speakers: Prof P M Jawandhiya, Head, Comp Science, Jawaharlal Darda Engineering and Technology College, Yavatmal; Shri Satish Kalmegh, BSNL and Dr Wadai, Pune, during the seminar. This program was attended by number of IETE members.



Celebrations at Amravati

- IETE Amravati Centre with Vidarbha Youth Welfare Society's Prof Ram Meghe College of Engineering &

Management, Badnera, Amravati, organized a two-week Interdisciplinary STTP from 18th May 2011 to 27th May 2011 on the topic **"Signals & Systems"** in association with ISTE and Polytechnics & Engineering Principals Consortium. This training program received overwhelming participation of engineering & polytechnic teachers as well as post graduate and research scholar students. The program was inaugurated by **Dr P M Khodke**, Principal, GCE, Amravati, Chairman of Polytechnic and Engineering Principals Consortium & Joint Director of Technical Education, Maharashtra State, Amravati region. Lectures were delivered by eminent speakers like **Dr M S Ali**, Chairman IETE Amravati Centre, **Prof Sunil Gupta**, **Prof Jawandhiya**, **Shri Rajesh Deote**, followed by practical hands on experience. Dr V T Ingole, Principal, Prof Ram Meghe Institute of Technology & Research, Badnera and Founder Chairman of IETE Amravati, for Valedictory Function. Dr Sujata N Kale, SGBAU Electronics Department, Prof Samrat Thorat, Govt Engineering College, Amravati, Electronics Dept and Prof R A Pranale, Government Polytechnic, Yavatmal, shared their experiences during two week training program.

Chandigarh

- A one-day interactive session titled **"ICDC: A Forum for Technological Solutions to Industry Problems"** was organized on 4th June 2011 at IETE, Chandigarh Centre. Industry representatives from Ambala, Chandigarh, Parwanoo and Mohali regions, IETE Corporate Members, academicians, researchers, scientists and students, participated in the forum. The welcome address was delivered by **Shri V P Giridhar**, Chairman, IETE Chandigarh Centre. Inaugurating the session, the Chief Guest, **Dr Pawan Kapur**, Director, CSIR-CSIO, Chandigarh, spoke about the changing times and role of IETE in the emerging scenario of education and industry. He emphasized the importance and relevance of ICDC for both IETE as well as the industry. He said it would be like a club where members would meet and discuss about the technical issues and problems. There were two technical Sessions, one for the industrialists to inform about their problems and the other for the Scientists and Researchers to discuss solutions to the problems of the industry.



Shri V P Girdhar, Chairman, IETE Chandigarh Centre, delivering the welcome address

The **Technical Session-I** was chaired by **Dr Anil Jain, President**, Vaiseshika Electron Devices, Ambala Cantt, wherein he mentioned about the challenges and problems of the industry and drew attention to the Polymer Chain Reaction (PCR) being produced by M/s Triode Electronics, Ambala Cantt. **Mr Charan Singh**, Engineer, Triode Electronics, mentioned a number of problem regarding Polymer Chain Reaction (PCR); reliability checking; micro processor based version for design & technology of devices, customized softwares for industrial applications, appropriate standards for automatic measurements, development of instruments for disaster monitoring; integration of YAG Laser with ophthalmic instruments, automatic calculation & display of micro hardness testing with enhanced load capacity; regulated power supplies, Sensor laboratory, A&D Teaching Aids, Microcontroller based training kits, Instruction manuals of instruments and Training programmes. **Dr S K Sinha**, Principal Scientist, National Research & Technology Consortium (NRTC), Parwanoo (HP), said that though NRTC was helping the industry but had its own limitations. In his observation one to one interaction of scientists with the industry was missing. He was of the view that IETE experts should visit the site and suggest solutions to the industry. Highlighting the importance of ICDC for industry, he termed it as modern park similar to technical club. The **Technical Session-II** was chaired by **Shri N S Mehla**, Scientist CSIO, Chandigarh. The experts who addressed the queries in the session were: **Dr G S Singh**, Senior Principal Scientist, **Shri RC Agnihotri**, Senior Principal Scientist and **Shri Sanjeev Kumar**, Junior Scientist from CSIR-CSIO. **Shri BC Sundriyal**, Industry representative from Parwanoo mentioned about the problem of Corona Tester, its reliability checking and of aluminums soldering. **Shri**

Devender Negi, M/s Spearhead Technology Mohali (Punjab), an ISTC Alumnus, mentioned about the looming threat of China and about designing noiseless stepper motor drivers. The vote of the was proposed by **Dr C Ghanshyam**, Chief Scientist CSIR-CSIO and Hony Treasurer IETE, Chandigarh Centre.

- **43rd World Telecommunication & Information Society Day (WTISD)** was celebrated by the Centre on 17th May 2011. The welcome address was delivered by **Shri V P Girdhar**, Centre Chairman. The invited speakers were **Dr Sanjeev Sofat**, Principal Head, CS & E, Dean Academic Affairs, Co-ordinator CSRC, PEV University of Technology, Chandigarh and **Dr Ekta Walia Bhullar**, Prof & Head, Department of Information Technology, MM Engineering College, Maharishi Markandeshwar University, Mullana, Ambala, who delivered absorbing talks on the theme **"Better Life in rural Communities with ICT's"**.



WTISD-2011 at Chandigarh

Chennai

The Chennai celebrated the **World Telecommunication & Information Society Day** on 17th May 2011. **Shri S Muruganandam**, Chairman, Chennai Centre, welcomed the gathering. The theme **"Better Life in Rural Communities with ICTs"** was well explained to the audience by the Chief Guest, **Thulasi Bai**, Dean, Prathyusha Institute of Technology and Management (PITAM). **Dr C P Ravikumar**, Technical Director, University Relations, Texas Instruments Inc, Bangalore, Guest of Honour, delivered the keynote address. **Shri P R Seshadri**, IE (I) Tamil Nadu Chapter, Chennai; **Maj V V Chandrasekharan**, Hony Treasurer, IEEE, Madras Section; **Dr R M Suresh**, Chairman, Chennai Chapter; **Dr Ramachandran**, IET Chennai Chapter.

Network, were felicitated during the function. The engineering fraternity and professional bodies like IEEE, IET, IE (I), CSI & BES were represented by their respective President / Chairman to felicitate IETE Chennai Centre. Er V Chinna Pappiah, Hony Secretary of the Centre, proposed vote of thanks.



A view of the dais during WTISD celebration, Chennai

Dharwad

The Sub-Centre organized **National Technical Paper Contest-2011** on 22nd May 2011 on the theme "**Interdisciplinary Engineering for Societal Comfort**" - a student centric activity. Interdisciplinary engineering is playing vital role in providing comfort to the society was the opinion of the Chief Guest, **Dr B G Seeparamatti**. He said that the advent of technology has made it feasible to fabricate MEMS (micro electro mechanical systems) on a small chip that finds application in various fields including medicine. The Guest of Honour, **Prof (Dr) M Basavaraj**, Governing Council Member, highlighted the need and significance of technical competitions for the student



Experts on the dais for National Technical Paper Contest-2011

community and gave some tips for preparing and presenting papers in competitions. **Sri J R Kotturshetter** Manager, Lantiq Communications India Pvt Ltd, also Guest of Honour, explained the current industrial needs and tuning of the academics to suit the same. **Prof R L Chakrasali**, the coordinator of NTPC-2011, highlighted the need for a platform to exchange the information and knowledge leading to the interpersonal relations & inter professional benefits, to help taking proper engineering decisions. Prof S S Kerur, Chairman of IETE Sub-Centre Dharwad, narrated the road map of IETE HQ & the sub centre in his talk. Out of 25 papers registered for the contest, eight papers were selected after scrutiny by the experts and were presented by the participants from different regions. **Prof Shivanagouda**, **Prof Sridhar Joshi**, SDMCET, Dharwad, and **Prof Ashok Sutagundar**, BEC, Bagalkot, were the judges of the contest. Prof M S Patil appreciated and congratulated the participants and distributed the certificates in the valedictory function.

Goa

The IETE Goa Sub-Centre celebrated the **43rd WTISD** on 17th May 2011 at Bambolim Auditorium, Panaji, Goa. The welcome address was delivered by **Brig K S Chauhan**, Comdt 2STC and Chairman, IETE Sub-Centre Goa. **Prof Dhananjay Kulkarni** and **Dr Mangesh Bedekar**, BITS, Pilani, talked on "**Better Life in Rural Community with ICTs**". Presentations conducted on the subject were fruitful as it updated everyone about latest technologies and initiatives in the field.

Guwahati

Commemorating the **43rd World Telecommunication & Information Society Day** on 17th May, 2011 the Chief Guest, **Shri Kula Saikia**, IPS, Addl Director General of Police (Communication) Assam, spoke on "**Better life in Rural Communities with ICTs**" at the Centre. Shri Saikia highlighted the need of spreading awareness of ICTs amongst the rural communities for possible benefits through its applications. The Guest of Honour, **Shri Deepak Goswami**, Head, National Informatics Centre & State Informatics Officer, Assam, gave a lucid presentation regarding the various facets of rural ICT and initiatives taken by the Govt. **Dr Ratnajit Bhattacharjee**, Assoc Prof, ECE, IIT Guwahati, and Guest of Honour on the occasion, spoke about knowledge workers and Knowledge Process Outsourcing (KPO). The key-note address was delivered by **Dr Pranhari Talukdar**, Head, Dept of Instrumentation & USIC, Gawahati University,

who highlighted the use of ICTs for betterment of rural communities. Other who spoke were Shri Prasanta Saikia, Chairman, Guwahati Centre, Smt B L Choudhury, Hony Treasurer. The event was given prominent coverage in the local newspapers and television.

Hyderabad

The Centre together with BSNL, AP Telecom Circle, Hyderabad, celebrated 43rd WTISD on the theme "Better Life in Rural Communities with ICTs" on 17th May 2011. **Shri Rajeev Agrawal**, ITS, Chief General Manager, BSNL, AP Telecom Circle, the Chief Guest, delivered his talk on the theme. **Dr T H Chowdary**, Past President, IETE and Former IT Advisor, Govt of AP, presided over the programme.

Imphal

- Imphal Sub-Centre also organized the **World Telecommunication and Information Society Day** on 17th May 2011 at its Office. **Shri Dwijamani Singh**, Director I/C, Manipur Police Wireless and **Shri Kh Rajen Singh**, State Informatics Officer, Manipur graced the function, as Chief Guest and Guest of Honour, respectively. **Shri N Debachandra Singh**, Chairman IETE, Imphal, presided over the function. The speakers on the occasion were **Shri Th Tangkeshwar Singh**, Sr Asst Prof, Manipur University and **Shri Nilababu Oinam**, Principal Ibohal Polytechnic, Imphal. A Contest was arranged for innovative Ideas on Better Life in Rural Communities with ICTs for IETE students and ISF members. The students who were adjudged winners of the competition were : N Debendra Singh, DCSE, III Year (1st position); N Debala Devi, DCSE, II Year (2nd position) and N Priyokumar Singh, DEE, I year, (3rd Position), all from DOEACC Centre, Imphal.



Social Service Camp at IETE, Imphal Centre

- A one-day **social service camp** at Lamphelpal, Imphal, was organized on 6th Mar 2011. About 35 corporate and Student members participated in the activities of cleaning and beautification of IETE building and its campus.

Jaipur

- An invited lecture by **Shri Yogeshwar Ranga**, Macquarie University, Australia, was delivered on 27th April 2011 at IETE Bhawan, Malviya Nagar, Jaipur.
- A National Conference on "**Emerging Trends in Wireless Communications (NCETWC-2011)**" was organized by Regional College for Education Research and Technology, Jaipur, in association with IEEE MTT-S India Council and IETE Rajasthan Centre, on 26th-27th March 2011. **Dr Surendra Pal**, DFIETE, Chairperson M&CC, Co-Chairperson Pubs, Prof Satish Dhawan Professor & Senior Advisor Satellite Navigation (Associate Director and Prog Director Sat Navigation), ISRO Satellite Centre, Bengaluru, was the Chief Guest on the occasion.

Jammu

The Jammu Centre celebrated **World Telecommunication & Information Society Day** on 17th May, 2011. Speaking on the occasion, **Shri Joy Ganjoo**, Chairman, IETE Jammu Centre, apprised the members about the technological developments for the upliftment of the rural masses who constitute a major portion of the population in India. **Prof Parveen Lehana**, Member IETE emphasized the role of telecommunications in building the society. Er. Vijay Sharma delivering the formal vote of thanks, emphasized on the need for initiatives for overall development in the field of telecommunication. The event was widely covered in the local newspapers.

Kolkata

43rd WTISD-2011 was celebrated in befitting manner on 17th May 2011 at the Centre. The welcome address on the occasion was by the Centre Chairman, Prof (Dr) S Bandyopadhyay. The key-note address was delivered by the Chief Guest, **Shri Somnath Maity**, CGM, BSNL Kolkata, who talked on ICT related applications for improving rural services and environment sustainability. He highlighted the essentiality of broadband services to establish Information and Communication highway to feed urban & rural communities for developing goals and aspirations. **Shri Ritesh Mukherjee**, Joint Director CDAC-Kolkata spoke on uses of ICTs for rural

communities and applications that were already in use. **Shri Ananda Tarun Bose**, Amateur Radio Society, Nagpur, commented on how HAM radio operators as unpaid volunteers, were helping common man in rural & urban areas in cases of natural disasters.



Celebrating WTISD-2011 at Kolkata

Lucknow

A large number of people from BSNL, AIR, Doordarshan, FM, IE and IETE attended the **43rd World Telecommunication and Information Society Day** celebrations on 17th May 2011 at Lucknow Centre. **Prof Manoj Mishra**, Vice Chancellor, University of Lucknow, was the Chief Guest on this occasion. The other eminent persons who spoke on the occasion were: **Shri Atul Sharma**, AGM (Sales); **Dr Divakar Singh**, Faculty in IET; **Shri Om Vir Singh**, Centre Chairman and CGMT, UP (East), Telecom Circle, BSNL and **Dr V K Singh**, Prof IET, Lucknow.

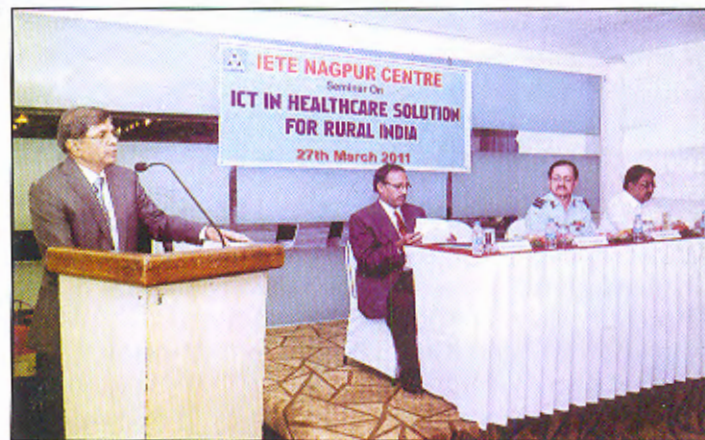
Mumbai

The joint celebrations on 43rd World Telecommunication and Information Society Day on "**Better Life in Rural Communities with ICT's**" were organized by IETE Mumbai Centre; IET Mumbai Network; IEEE AES/COM India Chapter; IEEE COMSOC Bombay Chapter and BESI, Mumbai Chapter on 17th May 2011. **Dr J W Bakal**, Chairman, IETE Mumbai Centre, delivered the welcome address and read the message of ITU Secretary General for the day, while **Mr Freddy Dinshaw**, Chairman, IET Mumbai Network, read out the Message of UN Secretary General. The Chief Guest on the occasion was **Shri Rajendra Prasad**, Chief Engineer (WZ), AIR & DD and the keynote speaker, **Dr M V Pitke**, elaborated on the present research and usefulness of ICT to the public in various modes to overcome disabilities. The vote of

thanks was proposed by Mr P B Walinjar. The event was covered by Doordarshan.

Nagpur

- A one-day seminar on "**ICT in Healthcare Solution for Rural India**" was organized on 27th March 2011. **Air Vice Marshal (Dr) R C Kashyap**, Principal Medical Officer, HQs Maintenance Command Nagpur, presided over the inaugural function. In his address he expressed his concerns over the unsatisfactory development of medical care in rural areas. He said, "Wireless Internet could be a boon. It would require semi-skilled people and the success would depend on proximity and affordability of the facilities. The Armed forces already making use of ICTs and experience says that it would be beneficial". **Dr A B Amle**, Dy Dir, Health Nagpur Region, was the Chief Guest. He outlined various schemes of the Govt for developing healthcare in rural areas in his address. **Dr D A Deshpande**, Chairman IETE Nagpur Centre and **Prof P D Khandait**, Hony Secretary, IETE Nagpur Centre, also shared the dais. The first technical session was chaired by **Dr M U Deshpande**, Ex Director, VNIT. The speaker in this session was **Dr Rajeev Joshi**, who spoke on "**Public Health Informatics and its types like bioinformatics, Imaging informatics, Clinical informatics & Public health informatics**". The second technical session was chaired by **AVM U A Deshpande**. The speakers in this session were: **Dr D A Deshpande**, **Prof Onkar Kemkar**, **Shri Ananda Bose** and **Shri Paras Wadher**. Prizes were distributed to the winners of the essay competition held on the occasion on "**Scope of Chandrayaan-II**" arranged for the students of class 9th-11th. About 110



Seminar on "ICT in Healthcare Solution for Rural India", Nagpur

students participated in the competition from 7 schools. The winners were : the team of Mayuri Hardas, Ritu Soni & Pooja Wadighare (1st) the team of Nikita Thawrani, Safora Tabassum & Neha Kalra (2nd) and Sheetal Shahu, Shweta Ghumatkar, Annapurna Kalla, Shalu Shindekar (3rd), all students of XI class of Adarsha Vidya Mandir High School and Junior College, Nagpur. The same school bagged the Late Mrs Suraksha Gorowara Rolling Trophy for this year.

- **Late Dr P K Kapre Memorial Lecture by Dr S T Rajurkar** (Retd), Director, Geological Survey of India, was organized by the Centre on 8th April 2011. **Dr R S Naidu**, Principal, Govt Polytechnic, Nagpur, presided over the function. The other prominent persons present were: Dr D A Deshpande, Centre Chairman; Air Vice Marshal U A Deshpande; Er S P Gorowara DIG, BSF (Retd); Prof V H Mankar; Dr M S Korde; Dr S M Wagh; Prof R V Yenkar. The Chief Guest Dr Rajurkar spoke on earthquakes, their causes and occurrence.
- **43rd WTISD-2011** was celebrated on 17th May 2011. **Shri Satin Katiyar**, the Chief Guest, touching upon the theme, discussed some success stories like of CG Net Swara, Grameen Bank, Rice Doctor, TARA haat, English Seekho, Simputer, E Chaupal, I kissan, Ek Behtar Zindagi, Mandi etc. He highlighted the challenges in the rural parts giving solutions to bridge the gaps. Commending IETE's role in rural development, he said it could help and connect the gaps through innovations by technology experts at IETE. **Er S P Gorowara, DIG (BSF (Retd))**, Nagpur, presided over the function.

Noida

A mini seminar on "**Emerging Telecommunication Technologies**" was held on 22nd May 2011 at IETE Noida. **Shri RK Gupta**, President IETE, graced the occasion as the Chief Guest. Lt Gen Ashok Agarwal PVSM (Retd), Immdt Past President IETE, Governing Council members and invitees were also present on the occasion along with IETE Corporate and student members. The subject was further divided into three inter-related topics to cover the complete gambit on what was happening in the field of telecommunication. The experts who spoke on the topics were: **Shri Mahesh Khera, KTMT Consulting** on "**Open Access Eco System Built Around FTTP**", who pointed out that with ubiquitous IP and VLANs, technologies were available to build open access networks so that the

customers could select their preferred service providers for high speed telecom services, and break the monopoly of service providers who posed entry barriers for other new operators. Thus the customer have the choice to subscribe to any telecom service being offered by any service provider, as access network would be open to all operators to allow interconnection on non discriminatory basis through the regulatory mechanism. **Eklavya NSN**, spoke on "**LTE in Mature Markets and Its Impact on India**". His points were that 3G which had taken off in the developed markets was quickly being over taken by 4G through the most popular LTE standards due to cost, capacity and speed factors. He mentioned that how LTE scenario impacts Indian 3G roll out, needs to be carefully understood by the carriers who have invested a lot in 3G spectrum. **Shri Arvind Kansal, Senior Telecom Consultant**, spoke on "**OFC Infrastructure- a must for NGN and FMC in India to handle huge traffic from Smart Phones**". He said that it was being envisaged that smart phones would become quite affordable and their popularity would increase exponentially by 2015. He said that these must be built over OFC infrastructure and there was a likelihood of India falling short of spectrum as the usage mounts. He suggested that FMC through femto and atto cells sitting over super speed broadband networks was the solution to mitigate the spectrum problems to a very large extent. **Col Mahesh Khera**, Chairman TPC, IETE Noida Centre, was the moderator during the seminar, which included a lively question answer session.



Seminar in progress on "Emerging Telecommunication Technologies", Noida

Palakkad

The **World Telecom & Information Society Day** was jointly celebrated by the IETE & IE Palakkad Centre on



Dr M R Vikraman speaking during WTISD

17th May 2011. **Dr M R Vikraman**, Chairman IETE Centre presided over the function and **Shri Vincent A Alappat**, Chairman IE (I) welcomed the audience. Others who spoke on the occasion were: **Shri C Pradip Hony Secretary, IETE, Palakkad Centre**; **Sqn Ldr S A B Ahmad (Retd) Hony Secretary IE (I).**

Patna

The **World Telecommunication and Information Society Day 2011** on 17th May 2011 was jointly organized by IETE Patna Centre and Dept of Electronics, A N College, Patna, and graced by the noted environmentalist, **Dr Ashok Ghosh** as Chief Guest. **Dr Hari Sumiran Singh**, Hony Secretary, IETE Patna Centre, delivered the welcome address. The theme was introduced by **Dr Arun Kumar**, Immdt Past Chairman, who remarked that ICT was capable of playing plenipotentiary role in transforming deprived rural masses by launching awareness programmes, connecting school and colleges to information and knowledge, providing



IETE Patna celebrating 43rd WTISD-2011

information regarding healthcare, sanitation, environment protection, weather conditions and market prices. It could improve e-governance by creating statewide area network (SWAN). **Dr Lalan Singh**, Chairman, IETE Patna Centre and **Shri Manoj Kumar**, read the messages from UN Secretary General and ITU Secretary General. Distinguished guests present on the occasion were **Prof A K Jha**, **Prof Vijay Raghav** and **Prof Kumar Shailendra**. Prof Kumar Shailendra stressed for a "holistic approach" towards alleviation of poverty among rural masses. A number of students also spoke on the occasion. The Chief Guest, **Dr Ashok Ghosh** in his address, recounted his experiences regarding the role of ICT in Arsenic detection and evolving its mitigation strategies and increased awareness towards safe drinking water in rural communities in Bihar.

Rajkot

The Sub- Centre celebrated the **43rd WTISD-2011** on 17th May 2011 on the theme selected by ITU on "**Better Life in Rural Communities with ICTs**". **Shri V M Patwari**, Ex Principal, AVPT College, Rajkot, welcomed the invitees and the members. **Er C M Devani**, Chairman IETE Rajkot Centre, delivered an informative speech on the back ground of the Day. Keynote speech was delivered by **Er Jay Pandya**, EC Dept, Govt Engg College, Rajkot. Expressing his views, he told how rural communities enjoyed urban facilities with the developments in ICTs. One of the AMIETE students, **Shri Kakkad Naimish**, was felicitated for his best performance on the occasion. The vote of thanks was proposed by **Er V M Thummar**, Hony Treasurer, Rajkot Sub-Centre.

Sivakasi

The Sub-Centre organized the **43rd World Telecommunication & Information Society Day** on 17th



Dr S Arivazhagan addressing the audience during WTISD, Sivakasi

May 2011 at Dept of ECE, Mepco Schlenk Engineering College, Sivakasi. **Dr S Arivazhagan**, Chairman, IETE Sivakasi Sub-Centre, welcomed the gathering. **Dr S Balakrishnan**, Principal, MSEC, gave the Presidential address. In his keynote address, **Shri K Venkataraman**, GM, BSNL, Virudhunagar, the Chief Guest, explained about the evolution of Information and Communication Technologies (ICTs) in various disciplines and their role in making life easier.

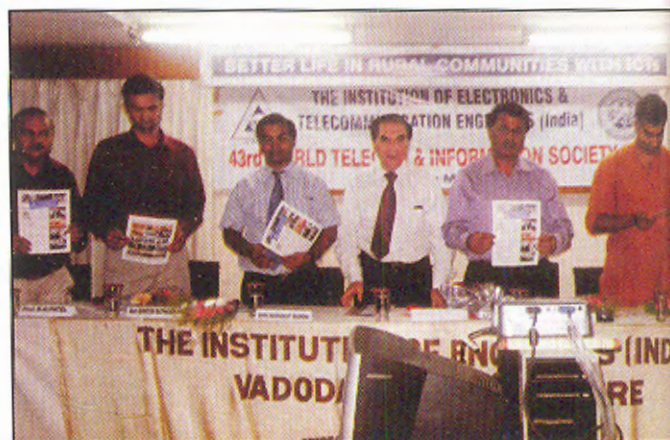
Trivandrum

A South Zonal Seminar on "Cloud and Grid Computing" was organised on 25th-26th Feb 2011. The seminar was inaugurated by **Maj Gen K B Jhaldiyal, AVSM (Retd)**, Governing Council Member and Chairman, TPC, IETE HQs. The speakers were from different organizations like BSNL, IITMK Kerala, MIT Chennai. The keynote address on "Cloud Computing Paradigms" was delivered by **Dr K Poulouse Jacob**, University of Science and Technology, Cochin. "Cloud Option for IT" was the topic, delivered by **Dr Elizabeth Shirly**, Director IIT, Kerala. Dr Thamarai Selvi S, spoke on - "The infrastructure as a service in Cloud", while the other speaker, **Shri M P Lokanathan** spoke on "Cloud over Digital Ground".

Vadodara

The **World Telecommunication and Information Society Day** was jointly celebrated by IETE Vadodara Centre, IE, Vadodara Chapter on 17th May 2011. The Chief Guest on the occasion was **Shri P B Pandey**, Gp Gen Manager, West Zone, ONGC and **Shri Ramakant Sharma**, PGM, BSNL, Vadodara Circle, was the Guest of Honour. Other dignitaries present were: **Prof M M Pathan**, Immt Past Chairman, Vadodara Centre, **Dr R C Desai**, Founder Centre Chairman, **Shri N M Bhatt**, EC Member and members from IE, ONGC and BSNL. The Chief Guest, Shri Pandey in his address said that the gap between rural and urban area was widening and ONGC was delivering its duty in spreading awareness through education in Gujarat. Shri Ramakant Sharma held financial reasons to be responsible for unwillingness of Pvt Operators to work in rural areas. He also informed about BSNL's commitment in laying down broadband and telecom connections in big way in rural India. Shri Manish Rathore, DGM, BSNL, Vadodara Circle, in his presentation gave brief but interesting information about

the progress made in 3G technique especially in OFDM and SCFDMA in 2GHz-31 Gh range. Dr Parmar gave an interesting picture of his visits and work done in rural areas. He stressed that to bring the rural masses to the front was very important to understand their mindset and the necessities.



Releasing the souvenir

Vijayawada

- The Centre in association with Guntur Engg College, Guntur, organized a one-day national level Technical Student's Symposium on "Electrofest 2K11" on 18 March 2011. The esteemed personalities invited were: **Dr K Satya Prasad**, Rector, JNTU, Kakinada, Chief Guest for inaugural ceremony; **Shri V S Anajneyulu**, Regional Manager, SBI, Vijayawada, Chief Guest for Valedictory Function; **Dr E V Krishna Rao**, Centre Chairman; **Dr K Satya Ramesh**, Senior Prof, ECE Dept, K L University, Vijayawada; **Prof Ramakrishna**, HOD- ECE, KITE Women's College of Professional Engg Sciences, Hyderabad. The management and eminent people behind the symposium were: Chief Patron, **Shri M Nara Hari Rao**, Chairman, GEC; Patron, **Shri P V K R Govardhan Krishna**, Secretray GEC; President, **Dr K L Narayana**, Principal- GEC; Convener, **Prof R Bala Bhaskar**, HOD ECE, GEC; the staff members and students of ECE Dept. **Dr K Satya Prasad**, the Chief Guest, was felicitated for his excellence in the field of ECE discipline by the Chairman and Principal of GEC. The other activities included Technical Paper Presentation, Technical Quiz and Technical Exhibition. These events were organized to develop

quest for knowledge, build relationships and inculcate a sense of team spirit and enhance technical skills amongst all. It proved to be a good sense of guidance for the students. About 350 students participated from various colleges and submitted their papers for presentation. There was an outstanding response from participants in all events. The program concluded in a positive note and left an indelible mark in the hearts and minds of the participants.



Participants at Electrofest 2K11

- The **WTISD-2011** was celebrated on "**Better Life in Rural Communities with ICTs**" on 17th May 2011 in association with IE (I), Vijayawada Centre. Speaking on the theme, **Dr E V Krishna Rao**, Chairman Vijayawada Centre, said that for the better communication, analog to digital developments broadband facilities could be utilized in remote regions; more educational channels could help towards better living styles, education and healthcare. **Shri D Rama Krishna**, Chairman, IE (I) Vijayawada local Centre, delivered a talk on the occasion. A 15-day training programme "Tech 2 You", was arranged for School Children for developing their ideas and skills.

Visakhapatnam

IETE Visakhapatnam Centre has celebrated the **WTISD-2011** on 17th May. **Shri RMM Krishna**, Senior GM, BSNL, Visakhapatnam, gave an invited talk on "**Better life in Rural Communities with ICTs**". He emphasized the importance of ICT in the economic growth of a nation. He spoke at length about the



Website being innaugurated

challenges on an economically viable solution for bringing ICT to villages. **Shri S V Rangarajan**, Principal Associate Director, NSTL and Chairman IETE Visakhapatnam Centre, presided over the function. **Prof K Rajarajeswari**, Governing Council Member IETE, also spoke. IETE Visakhapatnam Centre launched a website <http://www.ietevizag.org/> and was inaugurated by one of the founder members, **Shri K Kondal Rao**.

Warangal

The **World Telecommunication and Information Society Day 2011** was celebrated by the Centre on 17th May 2011. The Keynote speaker on the occasion was **Dr T Kishore Kumar**, NIT Warangal, who gave a presentation on the topic of the theme "**Better Life in Rural Communities with ICTs**".



Presentation in progress

IETE Students' Forum (ISFs) : Activities

- **ISF at Govt Polytechnic , Arvi, Dist Wardha**, was inaugurated on **Mar 04, 2011** by Shri Anil Joshi, LFIETE.
- **ISF of Amalapuram Institute of Management Sciences & College of Engineering, Mummidivaram, A.P.**, was inaugurated by Prof Col Allam Appa Rao, Hon'ble Vice Chancellor of JNTU, Kakinada, on **Mar 25, 2011**.
- A one-day hands on workshop on "PCB Design using ORCAD" conducted by Shri K P Dhawad, Intellisoft Technologies, Nagpur, was organized by **ISF, Govt Polytechnic, Nagpur (MS)**, on **Mar 25, 2011**.
- **ISF of the Dept of ENTC, Dhaneshwar Rath Institute of Engineering and Management Studies (DRIEMS), Kairapari, Tangi, Orissa**, organised the annual techfest 'ARRUNYA-2011' on **Apr 23, 2011**. Shri Karma Lakra, Secretary, IETE Orissa chapter and Prof R S Rohella, an Exec Committee Member, ISF Chapter, Orissa, graced the occasion as the Chief Guest and keynote speaker respectively.
- **ISF at DOEACC Centre Imphal**, was inaugurated on **Apr 29, 2011**. The Chief Guest and Guest of Honour on the occasion were Shri Y Subhaschandra Singh, Scientist 'D' and Shri T Gunendra Singh, Scientist 'D', respectively. Shri N Debachandra Singh, Chairman IETE Sub-Centre, presided over the function.
- **ISF at Gurunanak Dev Engineering College, Ludhiana**, was inaugurated by Dr Harpal Singh, Chief Guest on **May 02, 2011**. On the occasion, an expert talk on "Genetic Algorithms for Engineering Optimization" was delivered by Dr Munish Ratla, Asstt Prof, ECE Dept.
- **ISF at PA College of Engineering, Mangalore**, was inaugurated on **May 02, 2011** by Prof H K Haris, Hony Secretary, IETE Shimoga Sub-Centre, JNM Shimoga.
- **ISF at KLN College of Engineering, Pottapalayam, Madurai**, was inaugurated by the Chief Guest, Dr Santha Selvakumari, Hony Secretary, IETE Sivakasi Sub-Centre, on May 06, 2011. Shri KLN Ganesh, President, College, presided over the function.
- A technical quiz and an expert lecture on "CMOS VLSI Design" by Shri Satish Thakre, HoD, VLSI Dept, Scientech, Indore, was organized on at **ISF Mahakul Institute of Technology & Management, EC Dept Ujjain**, under "Events 2011" on **May 7, 2011**.
- **ISF of Arya College of Engineering and IT (ACEIT) Kukas, Jaipur**, celebrated WTISD on **May 16, 2011**. The Chief Guest on the occasion was Shri Deepa Bhatnagar, Chairman IETE Rajasthan Centre.
- **ISF of L R Institute of Engineering & Technology Solan**, celebrated the WTISD-2011 on **May 17, 2011**. Speakers on the occasion were Miss Deepshikha, Lecturer of Chemistry in Applied Science Department presented and Prof Pradeep Prabhakar, Director Principal of L R Institute of Engineering & Technology Solan.

Professional Activity Centres (PACs)

- An International Conference on "Electronics Computer Technology & Network and Computer Science" in collaboration with IEEE and IACSIT, Singapore (www.icect.org) was organized by **IETE Professional Activity Centre (PAC)** of Department of Computer Science, **S T Hindu College, Nagercoil**, on April 8-10, 2011 at Kanyakumari.
- A National Level Paper Presentation "KSHITIJA-2011" was organized on May 04, 2011 under Professional Activity Centre in the **Dept of ECE & TCE at SJC Institute of Technology, Chickballapur**. Prizes were awarded for the best papers for faculty, PG as well as UG students.

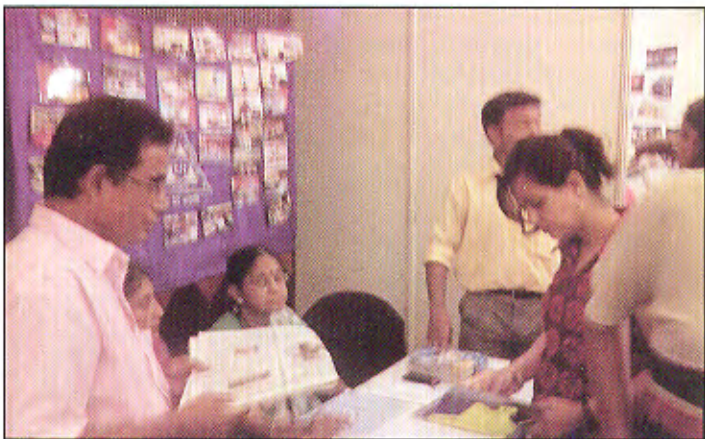


Delegates at International Conference, Nagercoil

IETE Participation in Education and Career Fair -2011 for Students' Enrolment Drive



IETE stall at Hotel Shivalik View, Chandigarh on 28th-29th May, 2011



Students enquiring at Hotel Park, Kolkata on 14th-15th May, 2011



Students at Pragati Maidan, New Delhi at IETE stall on 13th-15th May, 2011



Enthusiasts at the Education fair held at Hotel Tip-Top Plaza, Thane, Mumbai, 4th-5th June, 2011

Awards & Achievements



Prof B L Deekshatulu (DF028015L), Chairman NIT Warangal (AP), Distinguished Fellow IDRB (RBI-Govt of India) and Past Council Member of IETE, received the coveted **National Award by Ministry of Earth Sciences, Govt of India**, for his contribution to **Ocean Science & Technology**. He will be presented this **Award** at the MOES Foundation Day Function on 27th July 2011 at Vigyan Bhawan, New Delhi. Prof Deekshatulu has also received **Chen Shupeng Award** of the **Chinese National Committee for Remote Sensing/ Asian Association** for his contribution to **Remote Sensing** and to the **Asian Association for Remote Sensing**, which he will be presented on 3rd Oct 2011 in Taipei, China.

Important Notice

Dear Corporate Members,

We solicit your cooperation to serve you better, therefore, we request you to kindly send us your **correct e-mail ID, mobile number, date of birth** and your **areas of specialization**. Please send this information by mail to pr@iete.org, quoting your name and membership number. However, if you have not yet received the Life Membership Identity Card of IETE, please **visit our website: www.iete.org** for details under Membership link for the Form to be sent with complete information to the institution.

Announcement & Call for papers

54th Annual Technical Convention

ICT in Rural Development

Sept 24-25, 2011 Golden Hall, Rajpath Club, Ahmedabad-380 059

The IETE Annual Technical Convention is a major annual event of the Institution. It brings together IETE Members and all other scientific/technical/managerial personnel engaged in the broad area of electronics, telecommunications, computers and IT on a common platform for exchange of ideas and information on topics of current and future interest to the country. Theme "ICT in Rural Development" is a national challenge in general and a big challenge to the professionals in the field of ICT in particular. IETE convention invites one and all to discuss and dwell on the rural requirements of the nation and devise ways and means using ICT to deliver the benefit to the rural populace.

Papers are invited on : ICT Enabled Agriculture, Health, Milk Processing and distribution, Education, Communication, Agriculture, Infrastructure, Water Resource Management, Social Welfare, Rural Innovation, Safety & Security, Supply & Distribution in Rural Segment using technology, Livelihood and Quality of life.

Send complete **camera ready paper by – July 15, 2011** Notification of acceptance – **July 05, 2011**, Registration **by** at least one author of each **accepted paper – Aug 19, 2011**, Abstract and Full paper to be sent by Email in word document to ahmedabad@iete.org and copy to pr@iete.org

Exhibition provides an excellent opportunity for the industries and companies to exhibit and promote their products, Information & communication technologies and related areas. Request for participation should reach by **15th Sep 2011** (per stall 3M x 2M) : Rs 1,00,000/- or US\$ 3000

For further details please contact:

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