



सह बीर्य करवावहै

FROM PRESIDENT'S DESK

Indeed, it is only technology that can solve the problems due to illiteracy, ill health and economic failure. The technological innovations in food, medicine and information, if harnessed effectively, could transform the lives of poor people and offer breakthrough development opportunities to developing countries. Institutions play important role in shaping the destiny of a country. One such effective institution, our IETE, with its vision and policies is targeting a specific group for empowering and offering opportunities to adopt technology to expand the choices in their sphere of work. IT and telecommunications can create bridges, if linkages are built through programmes to improve the quality of life. And IETE's thrust areas include making electronics, telecommunication and IT, which have been considered as the elitist technologies, to become the technologies for the masses.

IETE consciously chose to concentrate and stay focussed on its basic objectives, helping and contributing towards building India as a potential knowledge hub of the world. Celebrating its Golden Jubilee year, the institution has planned a number of activities and initiatives in this direction. Theme topics of the seminars, symposiums, workshops or presentations to be conducted during the Golden Jubilee Year revolve around IT and telecommunication, which are enabler of all-round development. With the aim of reaching out to more populace and to extend its activities, the institution has planned to raise the number of centres further, create Centres of Excellence & research seats, institute awards and scholarships, achieve paradigm shift in the contents of IETE journals and collaborate with Industries to boost up implementation of identified activities and lot more.

By now most of you must have learned that the undersigned has been re-elected unanimously as the President for the year 2003-2004. I am indebted to you all for giving me this unique honour during this very important year in the life of IETE. I am fully conscious of the responsibilities, which have been given to me by your esteemed opinion. I can only assure you that I shall try my best to come up to your expectations.

Nonetheless, as I have always been believing, it is the contribution of capable and enlightened members, which can take the Institution to greater heights rather than an individual alone. I am sure, you will continue to provide all the support and co-operation as you have been doing so far. Together, we shall achieve our objectives.

(K K AGGARWAL)

NEWS FROM HEADQUARTERS

Prof K K Aggarwal re-elected



Prof K K Aggarwal, Vice Chancellor, GGSIP University has been re-elected, unopposed by the Council of IETE for second term (Oct 2003-Sept 2004) as the President of the IETE. He assumed office of the President of the IETE on Sept 30, 2002.

The impact of directions given by Prof K K Aggarwal to IETE programmes is obvious with its growing presence. Prof Aggarwal is one academician who has contributed immensely towards both the formal and non-formal education systems. Being an ardent believer of industry-institute interaction, he has conducted reliability analysis studies for well-known Indian corporate houses, PSUs and R&D laboratories. He also conducted a full day programme for Information Management Resources, Florida, USA and delivered a technical talk on Reliable Automotive Electronics at Ford Motors, Detroit, USA. Before taking over his present assignment of Vice Chancellor, he held the posts of Dean (Academics), REC, Kurukshetra; Director, Centre of Excellence for Manpower Development in Reliability Engineering, established by Ministry of Human Resource Development at REC, Kurukshetra and Pro-Vice Chancellor, Guru Jambheshwar University, Hissar. Currently, he is on the Board of a number of Government and private bodies associated with educational and technical programmes. He has written books and published more than 200 papers in national & international journals.

Golden Jubilee Celebrations Launched

IETE sparked a renaissance during its launching ceremony of Golden Jubilee year on January 13, 2003. The occasion witnessed the presence of dignitaries like Hon'ble Vice-President of India, Shri Bhairon Singh Ji Shekhawat, who inaugurated the ceremony and Smt Sushma Swaraj, the then Hon'ble Minister of Information & Broadcasting, who presided over the ceremony.

The function began with an invocation of Saraswati Vandana. Dr H S Sharma, Chairman Golden Jubilee celebrations Organizing Committee welcomed and introduced the Chief Guest, Shri Bhairon Singh Ji Shekhawat and Smt Sushma Swaraj. Seeking everyone's blessings, Dr Sharma propounded communication as the basic need of the human mind. He appealed to all professionals in the field to make India an IT super power. The Chief Guest lit the customary ceremonial lamp and after that Prof K K Aggarwal, President IETE commenced his address. He briefly mentioned the achievements of the institution in last 50 years. Among them were recognition of IETE conducted examinations by the Government, value of IETE courses, establishment of Centre of Excellence, creation of two Research seats, topics of discussions under Apex forums etc. He announced the theme of the Golden Jubilee Annual Technical Convention

(ATC) "ICE-2020: Its impact on quality of life". He proposed establishment of IETE centres at northeastern parts of the country and newly carved States of Jharkhand & Chattisgarh. Emphasizing the importance of teleworking he said that it should be made available especially to housewives. **Prof Aggarwal said it was the responsibility of the professionals to ensure that also stands for ethical, efficient and economical functioning thinking.** He said Minister of Information and Broadcasting has already allowed opening up of FM radios by Universities and formal educational Institutions. He said that it is for us to decide how technology should be used for our good. Formal education leaves number of gaps between the requirement and the actual knowledge imparted. IETE will work for bridging these gaps. He cited examples of frontier technologies like Nano Technology, which will take considerable time to find place in the curricula of Universities and Institutions. However, these cutting edge technologies have to be disseminated to all the professionals. Such gaps, IETE intends to cover through its continuing knowledge upgradation programmes for which IETE has expertise, resources and infrastructure. Prof Aggarwal appealed to strive for convergence of mankind. He called IT a technology, which can serve as digital bridge and not create digital divide. He said that it is a coincidence that institutions like IETE, CSIR and UCC are celebrating their golden jubilee in the same year, and hoped that all the three bodies would work to achieve common objectives.

Shri Bhairon Singh Ji Shekhawat, Hon'ble Vice-President of India laid the foundation stone of IETE Centre of Excellence to be located at Noida and released the IETE Commemorative Volume-A Historical Perspective. Smt Sushma Swaraj, Hon'ble Minister of Information & Broadcasting released the special issue of IETE Newsletter.

Smt Swaraj captured the attention of the audience with her enlightening views. She called the launching of Golden Jubilee celebrations as a historic event in the history of the institution and praised the IETE fraternity for the efforts put up for realization of good work. She said that in the era of convergence and optical fibre an inter-disciplinary approach has become a necessity. Innovations with the applications of emerging technologies to be taken up, first at micro level so that at macro level whole nation takes a quantum jump in development. Smt Sushma Swaraj pointed out two areas, which needed immediate attention. Firstly, adequate budget allocation for research in the frontier areas of technology, which is not prevalent in India at present and needs to be rectified. Secondly, more efforts in international cooperation and collaboration. She said Prime Minister's recent announcement of permitting dual citizenship would help to facilitate in cementing such collaborations. Indians in India and abroad together would help making India world leader in knowledge based industries. She stressed upon using the technology in the right way for deriving benefits instead of stopping the inflow of new technologies. Smt Sushma Swaraj said that a lifetime opportunity for Broadcasting and Telecom Engineers has been created with the opening up of FM radio stations at educational institutions.

Hon'ble Vice-President of India, Shri Bhairon Singh Ji Shekhawat, praised the prudence of IETE members and said that they have every right to rejoice on the achievements and the progress made so far. However, a road map evolving future scenario should also be prepared. He said that the changes due to electronics and communication technologies that were unthinkable, a few years back, have now become a reality which has made living happier and healthier. He said that it was gratifying to note that Indian professionals are much more in demand abroad. Software industry has achieved remarkable distinction for ensuring quality, productivity and cost effectiveness. He attributed the success in software arena to industry knowledge, expertise in cutting edge technology and willingness to remain abreast in global trends by embracing latest technologies, which are gaining eminence world over. He said use of new technologies could provide cost-effective solutions to our enduring problems like growing population, unemployment, unsafe drinking water, flood, drought etc. Through prudent use of information & communication technology we can alleviate poverty and ignorance. He said that new technologies if optimally harnessed, could immensely benefit the farmers and rural artisans. IT should be made an important tool for economical advancement and empowerment of the poor and deprived, he insisted. Hon'ble Vice-President stressed upon the rural connectivity and role of IETE in this direction.

Vote of thanks was proposed by Maj Gen Vinod Krishna, AVSM (Retd), IETE Vice-President and Zonal Coordinator Northern Zone.



Launching of Golden Jubilee celebrations of the IETE on Jan 13, 2003 at N.Delhi. Seated from L→R: Dr. H S Sharma, Smt Sushma Swaraj, Shri Bhairon Singhji Shekhawat and Prof K K Aggarwal

IETE Apex Forum (Trends in Broadcasting)

The Apex Forum was organized on Feb 26, 2003 at India Habitat Centre, New Delhi. Dr H O Srivastava, Chairman, IETE Delhi Centre welcomed the delegates and Shri P N Chopra, Convenor of IETE Apex Forum introduced the subject of discussion. He commented on changing broadcasting scenario world over especially the broadcasting technology, which has undergone sea change. Talking about future technologies like DVB, DTH, DAB, DRM and DSS, he said that for adoption of

these technologies a number of issues related to availability of receivers, content production, regulatory and IPR would have to be resolved. He also pointed out the inconvenience caused to the viewers whose favourite channels are blocked because TV operators and broadcasters continue to lock horns over the issue of conditional access. He said that the problems seem to have been resolved with decision to install set top box in each home so that the viewer pays for what he views. Prof K K Aggarwal, President IETE presided over the Apex Forum.

The Chief Guest Shri K S Sarma, CEO, Prasar Bharati spoke about the public and private broadcasting, scenario of broadcast services, services provided by Prasar Bharati etc. There were two key note speakers namely Shri Kiran Kamik, President, NASSCOM and Shri Rakesh Mohan, JS, Ministry of I&B. The keynote speakers spoke on various issues related to broadcast model and broadcast scenario. Padamshree Shri H S Jolly, former E-in-C, AIR & DD was the moderator during panel discussion. The speakers were Shri Bhaskar Roy, Director, Centre for Media Research, Dr H O Srivastava, CE, AIR and Shri D Venugopal. Various issues related to broadcast policy for radio and TV were discussed.



Prof K K Aggarwal, President IETE addressing the IETE Apex Forum

NEWS FROM LOCAL CENTRES

Allahabad

A tutorial was organized on the theme "Supply Chain Management through IT" on Feb 13, 2003. Invited speakers were Dr Arun Kumar, MONIRBA, Allahabad, Dr Jagdish Gulati, UIM, Allahabad, Shri Anand K Pathak and Shri Deepak Shikarpur from CSI HQ Mumbai.

Aligarh

A two-week short course on "Multimedia Technology and Applications" was organized at Aligarh Muslim University during December 13-31, 2002. Forty-one participants from various places attended the course.

Centre has acquired its own premises and the new address is:

IETE Aligarh Centre

Flat No 1&2 (1st Floor),

Shah Residency, Medical Road,

Aligarh- 202002.

Telephone No : 2702196.

Bangalore

The centre conducted the following events:-

Nov 1, 2002- A lecture on "Mobile Communication" at BSF Technical School, Bangalore by Shri D Rajagopal, Hony Secretary, IETE Bangalore Centre.

Nov 16, 2002- As a part of the Golden Jubilee Year activities, one-day workshop on "Embedded Systems" was held.

Nov 18-Nov 23, 2002- A 6-day intensive course on contemporary Telecom Networking including industrial visits to Microwave and Optical Fibre station of BSNL, C-Dot, ISAC and LRDE was conducted.

Jan 25, 2003- As a part of Golden Jubilee activities, one-day workshop on Computer Networks and Network Security was held. Prof Murali and Prof M S Sudhi delivered the lectures.

Under continuing education programme the following technical lectures were held:

Advanced PLD Architecture; Image Processing (DSP); VX Works, programme development; Board support packages (BSP); VHDL & Verilog basics; Adaptive Signal processing; ASIC Design (VLSI); future trends in embedded systems; X links development tools & its demonstration; DSP Processor architecture; Micro Electro Mechanical Systems (MEMS); Introduction to Embedded system & Micro Controller MC551; Data networks, principles & protocols; Programming of 8051 using Instruction set simulator; Concept of ISDN, LAN, e-mail and internet; programme of evaluation kit Micro controller; signaling systems No. 7; Concept of Intelligent Network & Services; Micro Controller 8051, simulator.

Real World Examples/ modules LCD/KBD/interface, Motor speed control, ADC/DAC interface with MCS 51 kit, Wide Band CDMA, Network Management & Network Security, Review of Optical fiber properties, Introduction to DSP, exponential, Step & Unit impulse functions continuous & Digital versions, Properties of optical fiber link Review of WDM networks, TCP/IP & SNMP.

Delhi

An International seminar cum exhibition on "Trends in Broadcasting" was organized by IETE, Delhi Centre on 25th and 26th February 2003 at India Habitat Centre, New Delhi. The Chief Guest on the occasion was Shri Anil Baijal, Additional Secretary, Ministry of I&B. The inaugural session was presided by Prof K K Agarwal, President, IETE. The Welcome address and details of the seminar was provided by Dr H O Srivastava, Chairman, Delhi Centre. In the speech, Shri Anil Baijal, Chief

Guest spoke in detail about the current and future technologies and need for standardization of set top of-boxes for digital transmission. He spoke about the conditional access system and community radio stations for educational institutes. He emphasized on the need for developing a business model in the era of digital broadcasting. The Seminar was spread over 6 sessions namely : **Curtain Raiser- Past, Present and Future of Broadcast Technology, Satellite Broadcasting/ communication, Digital Broadcasting, Campus Radio Station, Challenges in Software- Content Development and Regulatory Issues.** Distinguished speakers were both from government and private sectors.

The attendance at the seminar as well as exhibition was encouraging. The delegates were from All India Radio, Doordarshan, Universities, Educational Institutions, Defence, BSF, Intelligence Agencies etc. There was active participation of the delegates and the interactive sessions were lively and enlightening.

The exhibitors comprised of RVR, Italy, CROWN, USA, WorldSpace, USA, BEL, Bangalore, SETRON India Pvt Ltd, Delhi, R&D, Prasar Bharati etc. The demonstration of live transmitter for CRS and related equipment generated lot of interest.

A souvenir carrying programmes, messages and papers from the speakers was released on the occasion. The International seminar cum exhibition of IETE was supported by Prasar Bharati, AIR, DD, Ministry of I&B, CSIR, DE (ST) and a number of advertisers/exhibitors, universities and educational institutes.

Gwalior

The centre undertook an awareness tour to Ambha Degree College, in Dist Morena, and apprised people about the examination programmes of DIPIETE and AMIETE conducted by IETE.

Hyderabad

The following activities were conducted by the centre:-

- A lecture on "Metropolitan IP Ethernet Services" by Shri C S Rao, Country Manager, Tellabs India Pvt Ltd on Nov 22, 2002.
- A lecture on "Digital Signatures: Authentication for Security" by Shri K N Gupta, Controller of Certifying Authorities on Nov 27, 2002.
- Valedictory functions of short-term courses on "MFC and Visual C++ Programming" and "CISCO Certified Network Professional (including CCNA)". Certificates were distributed to the participants.
- Prof K Babu Rao, Council Member, IETE inaugurated short-term course on "Design of Microcontroller Based Embedded Systems".

Kolkata

To commemorate the Golden Jubilee year, IETE Kolkata centre organized a national level seminar on "Electron

Surveillance in Modern Information Driven Society" during Feb 14-15, 2003. Welcoming the audience, Brig K Balasubramaniam Chairman, Technical Programme Committee, IETE set the seminar presentation process in motion through defining the role of e-Surveillance in conduct & management of events in information driven and electronics savvy society. Shri Nirupam Sen, Hon'ble Minister of Commerce and Industry, West Bengal was the Chief Guest on the occasion. He congratulated IETE for selecting contemporary and relevant topic of e-surveillance for the national seminar. He said that IT explosion and Biotechnology are the two most important areas that have significantly influenced the course of human civilization. Science and Technology has created new opportunities and possibilities and we have to use them for the benefit of the common man. He called upon the participants of the seminar to deliberate the issues passionately and pave the way for further development of IT in the state of West Bengal. He said the West Bengal Government is taking initiatives to increase IT usage and thus spur industrial growth, which will be advantageous to the people of the state. He thanked IETE and the organizers of the seminar and wished them success in their endeavour of creating awareness among the masses.

In his presidential address, Prof K K Aggarwal focused on the importance of electronic surveillance, essential elements of surveillance, techniques & technologies currently in use for surveillance and legal & privacy issues to set the boundary conditions for electronic surveillance. Communication, computers and Internet have increased connectivity phenomenally. However, it has also opened up vistas for terrorists and mischievous elements. Therefore we have to introduce latest technologies & techniques to guard against personnel, material and national security as a whole. Prof Aggarwal said that efforts in terms of launching a security assurance infrastructure, complete with certification system and disaster management plan at national level are the needs of the day.

Dr N Seshagiri, in his talk stressed the need for a national policy and a strategic framework for digital surveillance. Noting that the terror-industry has reactively spawned an anti-terror industry which has grown roots in the consumer market, the growing plethora of digital surveillance and digital security technologies and the resulting gadgets, equipments, software and components are finding newer applications like 'worker-watch' in factories for increasing productivity, 'ekid-protection' from socially harmful internet downloads, 'neighbourhood-watch' from anti-social elements, among others. The widespread availability of the gadgetry, in turn, encourages not only irresponsible people to use them for 'corporate espionage' and the like but also highly responsible government organizations like the Intelligence Agencies for 'Cyber Snooping' over the citizens. He expressed that the need for a national policy is to moderate such eventualities and the need for national strategy is to derive economic benefit from the fast growing industry.

In his keynote address Shri P N A P Rao, Emeritus Scientist, described Ground and Airborne Surveillance system for

frequency Spectrum surveillance. His talk described modern technologies for such surveillance systems encompassing search monitor, direction finding and signal analysis leading to identification of fingerprints of emitter and how to take corrective action to counter it. He said that use of Multi Sensor Data Fusion (MSDF) technology is essential, as the data available from different sensors is large. Compromising enaction of IT system leading to breach of security and remedies for the same were also discussed. Shri Pawan Duggal, in his brief talk described the Information Technology Act, 2000 and gave examples of cyber crimes detected and one conviction that resulted recently in India. He emphasized the importance of cyber laws and their enforcement especially in e-commerce, e-banking and e-governance. Vote of thanks was proposed by Chairman, IETE Kolkata Centre, Gp Capt M Mukutmoni. He summarized the presentations made by various speakers and profusely thanked them and the delegates for their contributions in making the event interesting and interactive.

The technical sessions in the seminar addressed the various issues related to e-surveillance through the deliberations by eminent speakers in the area. In Technical Session-I, technologies used in systems for Ground and Air Surveillance and their current trends were discussed particularly with reference to the needs of national security. The session was chaired by Gp Capt M Mukutmoni, Chairman, IETE Kolkata Centre and the speakers were DR T K Alex, Director, Laboratory for Electro Optics, Bangalore and Gp Capt H Kaushal, VSM (Retd), Council Member, IETE.

Technical Session-II on Cyber Surveillance covered techniques of surveillance and limitations of legal angle of the concept. Prof N R Madhava Menon, VC, WB National University of Juridical Science, Maj Gen Yashwant Deva, AVSM (Retd), Immediate Past President, IETE and Shri Dilip Mitra, Vice President (Net Work) Hutchison Essar Telecom Ltd spoke in this session. The session was chaired by Shri S K Mitra, MD, WEBEL, Kolkata.

Session-III was on Surveillance of Management systems; International standard of Software security, chaired by Prof D K Basu, Vice-Chancellor, Tripura University. Dr A K Chakraborty,



National Seminar on "Electronic Surveillance in Modern Information Driven Society" in progress.

Adviser, Dept. of IT, Govt. of India and Shri Arif Ahmed, Director South Asian Management Technologies Pvt. Ltd. were the two speakers in this session.

Mumbai

The centre organized a seminar on "Mobile Computing" on January 31, 2003. Welcome address was by the Chairman, IETE Mumbai Centre, Shri G S Tuteja. Keynote address was by the Shri K N Gupta, Controller of Certifying Authorities, Ministry of Communications & Information Technology on "Digital Signatures". The seminar was spread over three sessions. The speakers of session I include Shri K P Kumar, GM, (Trans) MTNL Mumbai on "Mobile Commerce"; Shri Harish Shetty, Asst VP, HDFC Bank on "Mobile Banking" and Shri Chalpati Rao, Lucent Technologies on "Progress in CDMA Technology". The speaker of Session-II was Shri Gunneshwara Rao, Director, D-Link (India) Ltd. who gave presentation on Wireless LAN (WLAN) with concepts of Wireless Fidelity (Wi-Fi) architecture in specific". The concluding session was totally focused on the underlying security issues involved in the Mobile Computing Technologies. The speakers were Shri K K Mookhey, CTO, Network Intelligence India Pvt Ltd and Shri Arun Saxena of CAREWARE Systems & Services.

Nagpur

- IETE Nagpur Sub-Centre together with Central Mining Research Institute (CMRI) and National Environmental Engineering Research Institute (NEERI), organized a National Seminar on "Tenth Plan Perspective of Electronics, Communication & Information Technology & its Impact in Indian Mining Sector" on January 11, 2003. Shri K S Raju, Controller General Indian Bureau of Mines, was the Chief Guest and Shri D K Sahni, CMD MOIL presided over the function. Leading organizations like WCL, MOIL, MECL, CMPDIL of mining sector took active part in the seminar. The seminar was divided into 4 technical sessions. In all 24 papers were contributed by various delegates. Prof Kikuo Matsui of Department of Earth Resources Engineering, Kyushu University, Japan delivered a special talk on "Research Scenario in Japan". Most of the talks focused on the effective use of latest electronic and communication devices that could take care of human life, protect the environment and increase the efficiency in mining industry.
- The Dept of Physics of Dr Ambedkar College & IETE Nagpur Sub-Centre organized a state level seminar on "Recent Trends in Telecommunication" on Feb 1, 2003. The seminar was sponsored by UGC. Municipal Commissioner Shri M K Srivastava inaugurated and Rajya Sabha Member & Chairman of Managing Committee of the College, Shri R S Gavai presided over the function. Apart from the seminar, a unique exhibition tracing the history and development of communication systems was also arranged and kept open for the public from Feb 1 to Feb 2, 2003.



Seen from L→R : Dr R N Singh, Director, NEERI, Shri K Raju, Controller General of Indian Bureau of Mines, Shri D K Sahni, CMD, MOIL and Shri A G Joshi, Vice Chairman, IETE Nagpur Sub-Centre.

- A workshop on VLSI Design was held at Priyadarshini College of Engineering & Architecture Nagpur. Dr W S Khokale, Professor Emeritus Visvesaraya National Institute of Technology inaugurated the workshop.

Nashik

A technical seminar was organized on Latest Trends in Cellular Technology, Importance of Digital Signatures of Internet security and IT enabled services in commemoration of Golden Jubilee of IETE.

Shri Vimal Wakhlu, G M (Mobile) BSNL Maharashtra Circle, Shri K N Gupta, Controller of Certifying Authorities and Shri K P Tiwari, Executive Director (Operations), VSNL Mumbai were the speakers. The seminar was well attended. The lectures were informative and lively and given coverage in local news paper.

Patna

Patna Centre has moved to its own flat on March 6, 2003. Satyanarayana Pooja was performed in the premises to seek blessings of the God. It is located very near to the main railway station and has strategic advantage of the location. The new postal address of the Centre is:

IETE Patna Centre,

Flat No 205, Shri Ram Plaza

Station Road,

Patna- 800 001

Pilani

IETE Pilani Centre organized two lectures on "Technology of Super Strain Gauge (Ritual to Realization)" by Dr Awatar Singh, Ex Scientist 'F', CEERI and FIETE and on "Educational Institutions working in India in the field of High Power Microwave Devices" by Prof D S Venkateshwarlu, FIETE, Former Senior Scientist, CEERI & Co-ordinator, CRMT, IT, Dept of Electronics Engg, BHU, Varanasi.

A get together of the students of Birla Technical Training Institute (BTI), Pilani with the Executive members of IETE Pilani

Chapter was arranged to apprise them of various examinations conducted by IETE.

Pune

- A lecture by Dr (Mrs) Prachee Javadekar, Director, Indira Institute of Management, Pune on "Lagaan: A New Approach to Leadership" was delivered highlighting various attitudes of leadership.
- A lecture by Shashank Hivarkar on "Education to Home" was organized on the occasion of a function to confer 5th Birla AT&T Essay Awards. The winners were Shri Amit Dhavale of COET, Pune Vidyarthi Grah and Shri Akkunoor Pradeep of MAEER'S MIT College.

Thiruvananthapuram

The centre conducted a seminar on "Cyber Security in e-Governance" on Dec 2, 2002. The papers presented were on Internet Applications by Shri Amarnath Raja, VPN-Virtual Private Networks & Security Concern by Shri A P Thampy, Cyber Crimes & Security Measures by Shri P R Chandran, Present Trends toward Cyber Securities by Shri N T Nair, and Public Key Infrastructure & Role of PKI in e-Governance by Shri Rohit Kumar Rai.

Vadodara

IETE Vadodara Sub-Centre organised a one-day symposium on "Emerging Trends in Broadband Communications" on January 19, 2003. Prof A I Trivedi, Shri M K Chaudhary and Sqn Ldr R C Nautiyal delivered the lectures on the subject. Smt Smriti Dagur, Chairman Ahmedabad, IETE Centre summarized the proceedings in her concluding talk.

To give impetus to the Student Forum activities a lecture on "Introduction to EMI/EMC" by Vijay Shah, Hony Treasurer IETE, Vadodara Sub-Centre was organized at Faculty of Tech & Engg M S University of Baroda.

The Sub-Centre is also planning to conduct two-day zonal seminar to mark the Golden Jubilee celebrations.

IETE STUDENT FORUM ACTIVITY

- Inauguration of a new IETE Student's Chapter (ISF) at **Karmaveer Kakasaheb Wagh College of Engineering, Nashik** was held on April 2002. Shri Balasaheb Wagh, Vice Chairman, K K Wagh Education Society felicitated the Chief Guest Shri A V Kulkarni General Manager, Nashik Telecom, and Chairman IETE Nashik Centre on this occasion.
- Inauguration of students forum at **School of Engineering, Cochin University of Science & Technology, Cochin** was held on Oct 31, 2002.
- Another ISF at **Arulmigu Kalasalingam College of Engineering, Krishnacoil** was inaugurated on Jan 3, 2003. The function was presided over by the Principal, Dr C Thangaraj. A lecture on "Communication Satellites" was delivered by Dr P Jayakumar, the Chief Guest.



IETE Student members listening the lecture during inauguration of ISF at Arulmigu Kalasalingam College of Engineering, Krishnacoil

DISTINGUISHED FELLOWS OF IETE-ELECTED IN 2002



Vasudev K Aatre, received the BE (Electrical) Degree from the University of Mysore in 1961, ME (Electrical) Degree from Indian Institute of Science, Bangalore in 1963, and was awarded PhD (Elec) Degree by the University of Waterloo, Canada in 1967. Presently, he is the Scientific Advisor to the Defence Minister and Secretary, Department of Defence R & D, and DG-DRDO, Ministry of Defence, New Delhi. Prior to this he held the post of Director of NPOL, Chief Controller of R&D and Professor of Electrical Engineering in a Technical University of Canada. He has published over 50 technical papers in national and international journals. He has authored textbooks for graduate and undergraduate levels. His field of interest includes Digital Signal Processing, Sonar and Underwater system Design and Defence Electronics.

Dr V K Aatre is the Fellow of National Academy of Engineering, Acoustic Society of India, Ultrasonic Society of India, Institution of Engineers, National Academy of Sciences. He has many national awards to his credit including DRDO Scientist of the year Award (1986), Vasvik Award for Electronic Sciences & Technology (1990), IETE Ram Lal Wadhwa Gold Medal for Electronics and Telecommunication (1993), DRDO Technology Leadership Award (1998), Padma Bhushan in 2000.



Maj Gen Prem Prakash (Retd) is a Gold Medalist at Degree Engineering Course and Post Graduate in Electronics from MCME. He held prestigious appointments in various ranks. He was Deputy Director in the Directorate of Electronics in the Ministry of Defence, also the Secretary of Electronic Development Panel; Head of Deptt of Communication Engineering and later Dean Faculty of Electronics at MCME; Chief Electronic Engineers at HQ Technical Group responsible for trial, maintenance laying down repair policies and overhaul of electronic equipment; Chief Executive of Electronic and Mechanical branch of Corps HQ responsible for maintenance of all Electronic and Mechanical equipment.

Due to his managerial and technical skills he was appointed as Chairman and Managing Director of Army Base workshop

employing more than 300 engineers and 20,000 technicians with turnover of more than 1000 crores. He introduced new measures to increase the productivity of Base workshop. He was selected as Commander (Chairman) of Services Selection Board. To meet the shortage of technical officers in the Army, he proposed a new scheme of selection and training known as Direct Entry Scheme which is currently in operation.

After 35 years of brilliant service in the Army, he was appointed as Secretary of IETE in 1988. As a Council member 1994-97 and 1998-2001, Vice President 1999-2000, he kept the momentum of creating Infrastructure. As Chairman MLCC the Corporate members at various centers were motivated to start new centers. For better governance of centers, changes in byelaws and rules governing local centers were suggested and after approval from the Council, these have been incorporated in "Standard Operating Procedure for Local Centers". Gen Prem Prakash has contributed significantly in the progress of IETE.

HONOUR & AWARD

Lt Gen D P Sehgal, AVSM, VSM, ADC, Signal Officer-In-Chief, FIETE and ex-Council Member of IETE has been awarded PVSM (Param Vashisht Sewa Medal) by the President of India on Jan 26, 2003. IETE fraternity conveys hearty congratulations to Lt Gen D P Sehgal, PVSM, AVSM, VSM, ADC.

ACHIEVEMENT



Dr K T Mathew FIETE, Professor Department of Electronics Cochin University of Science and Technology, (CUSAT) Cochin was awarded the prestigious JSPS (Japan Society for Promotion of Science) Senior fellowship of the Japanese Government for his contribution in the field of microwave propagation and materials study. He was associated with the Yamagata University of Japan to carry out the Fellowship programme from Oct 13, 2002 to Dec 13, 2002.

Change of Address : IETE Guwahati Centre

The address of IETE Guwahati Centre published in IETE Newsletter Vol 4 Nos. 5&6, Sept-Dec 2002 and IETE Directory of Corporate Members January 2003 may be amended to read as the following:-

IETE Guwahati Centre,
C/O APRO Training School
Jalukbari, Guwahati- 781 013
Ph: 0361-2571117
E-mail: ieteghty@sancharnet.in

34 Mid-Term Symposium

on

"Wireless and Wireline Future Scenario"

3 - 4 April, 2003

IETE is holding a two-day symposium on the topical issue of WIRELESS and WIRELINE - Future Scenario on 3-4 April 2003 at MUMBAI. The objective of the Symposium is to bring together people from R&D, academics, service providers, manufacturers, users & policy makers to have dialogue and interaction and to discuss the future scenario.

Delegates Registration Form

Name.....

IETE Class & Membership No.....

(if applicable)

Organization

Address

Phone (O)(R).....

Local Cheque / DD/ Cash No. Dated

for Rs..... in favour of "IETE, Mumbai Centre" is attached herewith

(The registration fee must reach us by 7th March, 2003)

Date:

(Signature)

Registration Fees:

1. Individual IETE Corporate Member : Rs. 1500
2. Student Members & Student Forum member : Rs. 500
3. Nominees of IETE Organizational member : Rs. 200
4. Sponsored delegate (one) : Rs. 3000
- (4 and above) : Rs. 2500 each

Note: Free Complimentary registrations for Council Members, Distinguished Fellows, & Senior Corporate Members above the age of 65 yrs.

For additional registration forms, please use photocopies. Please return this form duly filled in (fax for advance information) to:

Quraish Bakir , Hony. Secretary

IETE Mumbai Centre

BSNL Complex Telecom, Civil Sub Div 1, Juhu Dan

Santacruz West, Mumbai - 400 054

Tel : 022-2661 0124 Fax: 2660 9598 Email:

ietemumbai@vsnl.net

Web site: ietemumbai.org

NOTICES

Books added in the IETE HQ Library during September 2002- February 2003.

1. World Development Report 2002 on **Building Institutions for Markets**- a team work lead by Roumeen Islam & published by The World Bank Oxford University Press.
2. Human Development Report 2001 on **Making New Technologies Work for Human Development**- Director & Lead Author Sakiko Fakuda-Parr and Special Adviser Nancy Birdsall, published by Oxford University Press, Inc. New York.
3. Human Development Report 2002 on **Deepening Democracy in a Fragmented World**- Director & Lead Author Sakiko Fakuda-Parr, Lead Consultant Ngaire Woods and Special Adviser Nancy Birdsall. The report is published by Oxford University Press, Inc. New York.
4. **Digital Communications: Fundamentals and Applications (2nd Edition)** by Bernard Sklar published by Prentice Hall PTR, NJ
5. **The Essential Guide to Telecommunications (3rd Edition)** by Annabel Z Dodd published by Prentice Hall PTR, NJ.
6. **Telecommunications Reform in India** by Rafiq Dossani published by Viva Books Pvt. Ltd.
7. **A guide to Competitive International Telecommunications** by Gene Retske published by CMP Books.

Golden Jubilee Publications

- **Golden Jubilee Commemoration- A Historical Perspective**, released during the launching of Golden Jubilee celebrations on January 13, 2003 at IETE HQ has already been mailed to all Council members, Distinguished Fellows, Past Presidents and IETE Centres/ Sub-Centres. However, if any one among these addressees have not received the publication, may approach the IETE HQ for the same.
- A compendium on **"Progress in Science & Technology During Past 50 years and Trends for Next Decade or Two"** to be released during Annual Technical Convention 2003 (ATC-2003) is under compilation. Inputs/ contributions may be sent to the Managing Editor at ietend@giasd101.vsnl.net.in or ietend@bol.net.in

Golden Jubilee Research Fellowships- 2003-04

The IETE has instituted a Research Fellowship scheme to commemorate its Golden Jubilee. Under this scheme, elected professionals will be provided special assistance and support to enable them to pursue research in any frontier topic with in the broad framework of the following areas.

• **Emerging Wireless Technologies**• **Microwave and Radar Engineering**

Nature of Support: The support will include a fellowship of Rs 15,000/- per month for one year and contingency grant not exceeding Rs 12,000/- per year.

Duration: The duration of the Fellowship will be initially for a period of one year extendable based on the performance.

Research Work: Research work should lead to a Ph.D. degree from an Institution of national importance. Applicant should be attached to a reputed organization / institution and proposal is required to be signed by the head of the Institution. Arrangements for the registration / award of Degree with GGS IP University already exists.

Selection: Selection will be made by the IETE Board of Research.

Application: Detailed norms and guidelines for award of fellowship, guidelines for the formulation of research proposal format is contained in our Web site: www.iete.org

Application in duplicate as per the proposal format (to be downloaded from the Web site) should reach the **Secretary General, IETE, 2, Institutional Area, Lodi Road, New Delhi** on or before **April 15, 2003**.

Increase in number of IETE Centres/Sub-Centres

IETE is to raise the total strength of local centres to 50 by Sept 30, 2003. In this direction, **new Sub-Centres at Warangal and Amravati** are being opened. Requests have been received for opening new Sub-Centres at other places also.

OBITUARY

Prof Pramod S Moharir (F-025886) a life member passed away on Jan 14, 2003 at Hyderabad. A number of his articles on Predictive/ Homomorphic Deconvolution, Radar Signal Design etc have been published in IETE Journals/ transactions. He also authored "Pattern Recognition Transforms" and "Nonuniqueness in Geoscientific Inferences", both published by Research Studies Press UK and Wiley.

CALENDAR OF EVENTS

Subject	Date	Venue	Contact
• 34th MTS on "Wireless and Wireline Future Scenario"	3-4 April 2003	Mumbai	Shri G S Tuteja , Chairman, IETE Mumbai Centre C/o BSNL Complex, Telecom Civil Sub L Juhu Danda, Santacruz (W) Mumbai- 400 054 Ph : 022-26610124 Fax: 022-26609598 e-mail: ietemumbai@vsnl.net
• Elecom'03, Electrical, Electronics and Telecommunication Fair	5-8 April 2003	Pune	Ph :020-5539273/5521096 e-mail: gateway_ip@eth.net
• International Conference on Communication and Broadband Networking ATM interact Symposium 2003 (ICBN'03)	5-7 May 2003	Bangalore	Michiko Hashimoto mhashimoto@atmforum.com http://www.atmforum.com
• Golden Jubilee Symposium on "Trends in Surveillance and Communication"	16-19 Jun 2003	Dehradun	Dr S C Jain Chairman, IETE Dehradun Centre C/o DEAL Campus, Raipur Road Dehradun-248001 Tel: (0135) 787073/ 787083 Fax: 0135-787265/ 787290 e-mail: dealdrdo@del2.vsnl.net.in
• 46th ATC on "ICE-2020: Its impact on quality of life"	Sept 30-Oct1 2003	New Delhi	Maj Gen K B Jhaldiyal, AVSM (Retd) Secretary General, IETE, 2 Institutional Area, Lodi Road, New Delhi 110 003 Tel : +91 (011) 4631810; Telefax : +91 (011) 4649429/4631810; e-mail : ietend@iasdl01.vsnl.net.in; website : http://www.iete.org : http://www.iete.info
• International Radar Symposium India-2003 (IRSI-2003)	2-5 Dec 2003	Bangalore	Shri D Rajagopal IRSI Secretariat, PO Box No. 9339 CV Raman Nagar, Bangalore- 560093 Tel: 91-80-524-1666, 91-80-3331133 Fax: 91-80-5242860, 91-80-333 7231 E-mail: irsi@radarindia.com Website: www.radarindia.com
• National Symposium on Ocean Electronics (SYMPOL-2003)	16-17 Dec 2003	Cochin	Prof P R S Pillai Co-ordinator, SYMPOL-2003 Dept. of Electronics Cochin University of Science & Technology Cochin-682022 e-mail: prspillai@cusat.ac.in : prspillai@doe.cusat.edu Web Site: www.doe.cusat.edu/Sympol