



सह योग्य करवावह

THE INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS

FROM PRESIDENT'S DESK



At the very outset, I convey my heartiest good wishes and greetings to my colleagues in IETE fraternity for Diwali & the ensuing festive season. I also like to inform that we had a spectacular Annual Technical Convention, which successfully hosted International Conference and Exhibition during 23-25 Sept, 2005. It is yet another landmark in IETE's efforts and capabilities to disseminate the latest technologies for the benefit of our scientists, engineers and techno-savvy people. Behind the conduct of successful technical convention lie the tireless efforts of our dedicated organizers. I would like to congratulate them for a job done so well.

IETE as the premier Electronics, Telecommunication and Computer Science & engineering institution in India, should continue to provide quality education and further enrich it with an aim, not only to build a formidable technical workforce for industries but also for a indigenous research and manufacturing base. Students of today are tomorrow's torchbearers. For a country like India, which is working towards the achievement of a tag of developed nation in the comity of nations, it is important to understand this truth. It is for this reason that we have been emphasizing more attention on imparting high quality education and technical knowledge through various programmes at our HQ, Local Centres and Student Forums. I believe that in carrying out our work tirelessly and seriously, to fulfill the basic requirements of developing quality technical human resources, we are working diligently to help our student members at all levels, specially at Local Centres. Performance review and counselling sessions would certainly help the students in improving their grades. Our aim should be to identify the new potentials of students through human science research approach. In this approach we should devise our websites, IETE Journal of Education and other information for dissemination, to be more student oriented. We have to come forward to guide our students to achieve excellence. I am happy that we are constantly motivating students to excel at different stages and in various examinations through instituting awards for meritorious performances. However, to achieve excellence, in ever-diversifying technology, we have to come forward with a paradigm shift in managing human resource development activities. Though IETE Council is continuously engaged in providing such leadership, we solicit your views on the matter. Please write to us on the subject or e-mail your suggestions to ietend@bal.net.in

Lt Gen D P Sehgal

IETE NEWSLETTER

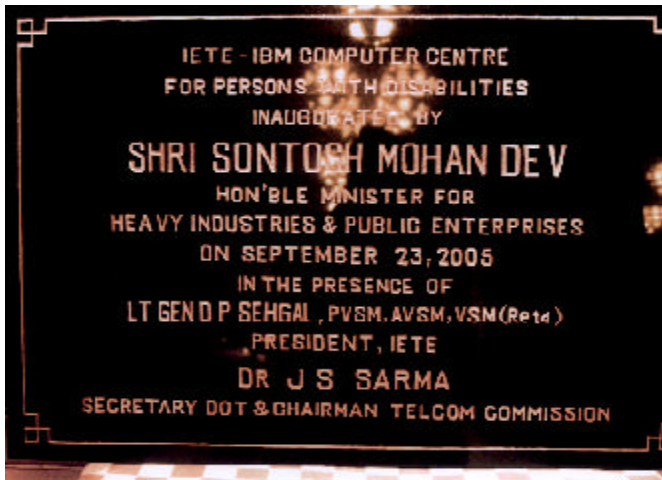
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Lighting of ceremonial lamp by Chief Guest, Hon'ble Minister for Heavy Industries & Public Enterprises Shri Sontosh Mohan Dev and the President IETE, Lt Gen D P Sehgal. Looking on are Dr J S Sarma, Secretary DoT & Chairman, Telecom Commission and Shri P N Chopra, Chairman TPC during the inaugural ceremony of 48th ATC and IETE EXPO-2005.



Chief Guest, Hon'ble Minister Shri Sontosh Mohan Dev releasing souvenir and special issue of IETE Technical Review during 48th ATC on Sept 23, 2005.



Laying foundation stone of IETE IBM Computer Centre for visually impaired students.



Dr B L Deekshatulu receiving the Distinguished Fellowship of IETE from Chief Guest during ATC.



President IETE, Lt Gen D P Sehgal, presenting memento to Chief Guest, Shri Sontosh Mohan Dev. Also seen in the picture is Chairman TPC, Shri P N Chopra.



Valedictory Session of ATC. Seen on the dais are (L R) Shri P S Saran, Shri K M Paul, Shri Shyamal Ghosh, Prof V S Ramamurthy, Lt Gen D P Sehgal, Dr Ashok K Chauhan and Lt Gen Davinder Kumar.

NEWS FROM HQs

48th IETE Annual Technical Convention and IETE EXPO-2005

The Institution organized an **International Conference and Exhibition** around the theme; **"ICT-The Road Ahead"** for 3 days during September 23-25, 2005 at New Delhi to commemorate its 48th Annual Technical Convention.

Shri Sontosh Mohan Dev, Hon'ble Minister for Heavy Industries & Public Enterprises, Govt of India, graced the occasion as Chief Guest. He inaugurated the 48th Annual Technical Convention by lighting the ceremonial lamp after Saraswati Vandana. Inaugural session featured welcome address and an overview of the IETE-International Conference and Exhibition by Shri P N Chopra, Chairman Technical Programme Committee, conferment of Distinguished Fellowship, address by the President IETE, address by the Secretary DoT & Chairman Telecom Commission, release of souvenir and special issue of IETE Technical Review-"ICT-The Road Ahead", and inaugural address by the Chief Guest, 37th Bhabha Memorial Lecture, awards ceremony and inauguration of IETE Computer Education Centre for the impaired vision personnel. **Distinguished Fellowship** for the year 2004-05 was conferred on **Dr B L Deekshatulu**, a Fellow of IETE and an ISRO Visiting Professor in the Dept of Computer & Information Sciences at University of Hyderabad, for his meritorious and significant contributions in application of the deep knowledge of electronics, telecommunication and computer science to many fields specially those connected with Remote Sensing.

Lt Gen D P Sehgal, PVSM, AVSM, VSM (Retd), President IETE, in his address, briefly dwelt on the Charter and the achievements of IETE. He highlighted

the important aspects of ICTs and said that the International Conference on the theme, "ICT-The Road Ahead", has been planned to disseminate the latest work that is going-on in the field of Information and Communication Technologies in advanced countries and in our country.

In his inaugural address, Shri Sontosh Mohan Dev, the Chief Guest, said that the IETE was rendering highly useful services to the nation, specially in imparting technical education to those students, who could not either afford or qualify for regular engineering colleges. Also, it is instrumental in the spread of ICTs, which are useful for economic development.

Dr J S Sarma, Secretary DoT & Chairman, Telecomm Commission, highlighted the achievements of Department of Telecommunication and Computer Software industry of the country. He said that the deliberations in the international conference organized by IETE would help in the growth of economy of our country through induction of latest information and communications technologies. Shri G P Srivastava, Chairman & Managing Director, Electronics Corporation of India Ltd, Hyderabad, delivered the **37th Bhabha Memorial Lecture on "Exploring India-A Manufacturing Base for Information and Communication Technology Hardware"**.

The International technical convention was in six sessions spread over two days. The Session-I was on **"Telecom-The New Frontiers"**, chaired by Lt Gen Davinder Kumar, PVSM, AVSM, VSM & Bar, ADC. The speakers included Mr Darryl Green, CEO, Tata Teleservices Ltd, on "250 million phones the way forward"; Dr Eshwar Pittampalli, CTO, Lucent Technologies

Pvt Ltd, Mumbai, on "Converged Networks, the Next Generation Telecom Growth Engine"; Shri Ashish Gujral, Director (Business Development), Qualcomm India, New Delhi, on "Media FLO Technology- Making Mobile Mass Multimedia: A Reality"; and Shri S Barathy, Vice President, HCL Comnet Systems & Services Ltd, Noida, on "Broadband Services through Satellite."

The Session-II on **"Telecom-Growth through Mobile & Broadband"** was chaired by Dr M G Chandrasekhar, Vice President, Orbimage Inc, Washington. In this session Dr K N Shankara, Director, ISRO Centre, Bangalore, spoke on "Space communications- Present & Future," Ms Pamela Kumar, Director Strategic Programme, Texas Instruments (India), Bangalore, spoke on "Chip Designing for Wireless Networks", Dr Alan Hadden, President GSA, UK, talked on "GSM Evolution supporting India's needs." Dr Dag Akerberg, DH Advisory Consulting, CTO, DECT Forum, Sweden, spoke on "Significance of DECT Technology and Spectrum Sharing for Rural Telecom and Local Wireless Access". Talking of DECT/corDECT technology, he said that it has proved to have unique features for providing high quality telephony and moderate rate Internet services. The cost per line is considerably lower and a unique means for effective spectrum management allowing dynamic access and channel sharing between public operators and also between public and uncoordinated private local access systems. These DECT features have not yet been fully exploited by the Indian service providers.

Technical session III on **"IT & Convergence"** was chaired by Dr N Vijayaditya, DG, NIC, New Delhi. Dr Arjun Saxena, Emeritus Professor, Rensselaer International Science

Company, USA, highlighted the importance of Silicon Based Ultra Large Scale Integrated Circuits (ULSICs). Dr R P Bajpai, Vice Chancellor, Guru Jambheshwar University, Haryana, spoke on Bio & Nano devices. Techniques and processes for the development of nano electronic devices were described. Techniques for the alignment of carbon nano tubes for drug delivery, sensors and actuators were brought out. Dr S K Aggarwal, Director STPI, Noida, presented "Development of IT Infrastructure and STPI contribution" in various major Indian cities. Dr T H Chowdary, Sr Consultant, TCS Ltd, Hyderabad, spoke on 'Convergence facilitated by Competition'.

28th Ram Lal Wadhwa Award Lecture was delivered by **Prof Bidyut Baran Chaudhuri**, ISI, Kolkata on "Pattern Recognition & Image Processing -Natural Language Processing (NLP) and Speech Processing". He highlighted the activities in the area of developments of the first di-phone concatenation based Bangla Speech Synthesizer, Bangla word Utterance Dictionary, a pioneering writing/ reading system in Bharati Braille Code for visually handicapped, Indian Language Talking - Dictionary for the blind, powerful spell-checker with a novel idea of reversed-character Sequence Dictionary. Prof Chaudhuri said that the systems out of ISI pioneering development work on the Optical Character Recognition (OCR) systems for Bangla, Devanagari and Oriya printed script have been acquired by the Software houses for commercialization. He brought out that OCR work is being extended to recognize hand-printed on line and off line Indian script characters. The current projects concern the development of machine translation software from Bangla to English, analysis of handwriting individuality (applicable in forensic purposes) and automatic reading of address from Indian postal documents.

Technical session-IV, which was chaired by Shri K M Paul, Engineer-in-Chief, All India Radio, New Delhi, was on "**Broadcasting- Future Profile**". Shri Charles W Kelly, International Sales, Broadcast Electronics, USA, deliberated on 'Digital H D Radio'. HD Radio™ is being rapidly deployed everywhere and holds the promise of providing a cost effective digital solution, which enhances radios competitiveness offering multi-casting, 5.1 surround sound, and datacasting while maintaining legacy AM and FM support. Mr Josit Troxler, Director Marketing & Strategy, Thales Suisse SA, Switzerland, spoke on "Digital Radio Mondiale (DRM) - Roll out of Digital Services", which he said is a key tool for broadcasters as part of an increasingly diverse set of ways of reaching the audience. A brief outline of DRM was presented including its characteristics and key features compared with other systems. Shri Jawahar Kanji Lal, Director, Rich Media & Music Business Programme, Nokia Multimedia, Asia Pacific, presented "DVB-H System and Applications". Mobile TV is the true convergence of the cellular and broadcasting domains with the possibilities of 30 to 50 TV Channels on a mobile device. Mobile TV in fact, he said, brings the broadcast world to the mobile generation. Mr Julian Cable, a senior Project Manager, BBC, UK, talked about DRM Receiver Development from Broadcasters Perspective. Satellite Based Broadband Delivery Services was the subject of Shri D Venugopal, Vice President, Advance Satellite Technology Services, Bangalore.

Broadcasting in Convergence was the field of Technical Session-V, chaired by Shri KRP Verma, Chairman & MD, BECIL, New Delhi. Shri Jawahar Kanji Lal of Nokia, Singapore, spoke on "Visual Radio- see what you hear". He talked about real-time interactivity offered by visual radio, wherein listeners can

participate in audience voting competitions, see information on the song and the artist currently playing on the radio-pop, rock, Bollywood or classical and also find out the artists' future concert dates, watch relevant graphics to accompany news and sports broadcasts, accessing weather news and traffic alerts while songs are playing and purchasing products and services. The radio station composes Visual Radio contents in the parallel channels matching the existing radio broadcast. Radio has always been the medium closest to its audience. Visual Radio builds on that long legacy of interactivity and makes it even more attractive and convenient than before. The other two foreign panelists were: Mr Nicolas Hans, Product Strategy Director, DDMS, France, on "Radio & TV Studio Automation and News Automation", and Mr Charles W Kelly, Director, International Sales Broadcast Electronics, USA, on "Data over Radio Broadcasting." Shri N Varadarajan of Silicon Image Inc spoke on "High-Definition Multimedia Interface (HDMI)-International Defacto Standard for Protected Digital Interface", that offers significant advantages over analog audio/visual connections, including the ability to transmit uncompressed digital video and audio content. Dr S Jayakumar addressed some of the aspects of "Emerging Trends in Digital Media Delivery". "Digital Broadcast India" was the topic of the last speaker Shri Yoginder Pal, Director (Engg), AIR, New Delhi in this technical session.

Technical Session-VI on **Regulatory Issues** was chaired by Shri Shyamal Ghosh, Former Chairman & Administrator USO Fund, Deptt of Telecom, New Delhi. The speakers in this session included, Dr T H Chowdary, Sr Consultant, TCS Ltd Hyderabad; Shri P K Garg, Wireless Advisor, MC&IT, New Delhi; Shri N Parmeswaran, Dy Dir Gen (VAS), Deptt of Telecom, New

Delhi; Shri Rajinder Singh, Secretary TRAI, New Delhi; Brig A K Wahie, Army Signals. Speakers dwelt and addressed the core issue of cyber Security. Efforts were made to simplify the complex subjects by touching the various security-related policies and their management issues.

Technical Session-VII on **Technology Growth and Services** was chaired by Lt Gen A K Agrawal, PVSM (Retd). Mr Jean Pierre Bienaime, Chairman UMTS Forum, spoke on "Worldwide 3G/UTMS Service: Towards Mobile Broadband- lessons for the Indian Market". Shri Deepak Baghchandani of Nortel talked about the "Technical Approach for Defence Communications". Lt Col Anurag Chandra, SO to SO-in-C, Army HQ, presented "Untethered Telecommunications". "Accelerating Growth of Teledensity and Information Communications & Technology in India" was the subject of Shri S N Gupta, Adviser, TRAI. The last speaker Shri A Shanmugam, Director (Engg) AIR, New Delhi, elaborated on "Internet Protocol (IP) and Broadcasting".

The valedictory session on 25 September 2005 was chaired by Prof V S Ramamurthy, Secretary, Deptt of Science & Technology, New Delhi. Lt Gen D P Sehgal, President IETE, attended the session and helped replying to the queries raised by the techno-savvy audience. The eminent speakers included Dr A K Chauhan, Chairman, AKC group of companies; Dr M G Chandrasekhar, VP, Orbimage Inc Washington, USA; Dr N Vijayaditya, DIG, NIC New Delhi; Shri K M Paul, E-in-C, AIR New Delhi; Shri Shyamal Ghosh, Former Chairman and Administrator of USO Fund; Lt Gen A K Agarwal, PVSM (Retd), Council Member IETE; Shri P S Saran, former Secretary GoI and Member (Services), Telecom Commission; Lt Gen Davinder Kumar, PVSM, VSM & Bar and ADC,

So-in-C, Army HQ, New Delhi; Shri KRP Verma, CMD, BECIL, New Delhi.

Dr N Vijayaditya emphasized on the need for technology that was rugged, reliable and solution oriented. He stressed upon content creation, broadband connectivity, WiFi, Wi Max and empowerment of the citizen. Shri Paul spoke about digital broadcast services converging with communication services. Shri Shyamal Ghosh highlighted the role of technology and its regulation; human resources and setting up of footprints for the ICT- The Road ahead. Lt Gen A K Agarwal said that it will take some time to provide communications to rural sector. He emphasized on digitization of broadcasting & convergence of technologies. Prof V S Ramamurthy mentioned that though both information & communication are important but limits have to be set. Technology alone cannot decide anything, connectivity is important alongwith commercial success and above all the human satisfaction. Prof Ramamurthy said technology should be deglamourized and used to the extent to address childrens needs.

The session was concluded by presentation of mementoes by Lt Gen D P Sehgal, PVSM, AVSM, VSM (Retd), President IETE, to all the penalists.

A **lucky draw** was arranged during the convention and the lucky winners were Brig R N Bhatia (FIETE), Mrs Meena Sreenivasan, IETE Staff, Shri P P Malhotra IETE Council Member, Shri R D Raghani, IETE Hony Treasurer, Rajkot Centre.

The technical sessions were preceded by **Students' session** and Students award ceremony on Sept 22, 2005 at IETE HQ. In the morning, before students' session, Prof S V Kharkar presented a live demonstration of Virtual Electronics Laboratory for the engineering students. The aim of

presentation was to have a virtual laboratory for the students who cannot come to the practical class. Virtual Electronics Laboratory (VEL) is a simulator but not a substitute for the actual laboratory for the students who are working and learning. It is a help for students who need revision before practical examination. During students' session Shri S Narayana, Chairman SIC, Brig Laxman Singh Co-Chairman SIC, Prof Anita Dandekar Vice President, Dr S S Agrawal, Chairman BOE and Shri D N Misra Chairman M&G, addressed the queries raised by the students on the difficulties faced by them. The general problems related to exams, results, lab practicals and examinations, changes in the syllabi, setting up of committees and placement cells, interactive sessions of IETE student forums, e-learning and its implementation in near future. Maj Gen Logani, Secretary General, IETE, summarized the problems projected by the students

Lt Gen D P Sehgal, President IETE, presided over the grand finale of students' session on 22nd September 2005. Gen Sehgal presented medals and certificates to 23 winners of Academic Awards. President, IETE, addressed the student awardees and students representatives who had come from various centers. Gen Sehgal clarified the doubts of students and their parents in an interactive session. The session ended with a group photograph of students with the IETE President.

A three-day international exhibition **IETE Expo-2005** was organized, along with the international conference in which national and international exhibitors/organizations including manufacturers of communication, broadcasting, computer and allied equipment systems and subsystems. The national and international exhibitors

who displayed their items: Sun Infonet Pvt Ltd, World Space India Pvt Ltd, Logix Net Solutions Pvt Ltd, Comcon Industires, Alan Dick India Pvt Ltd, Harriban Communication Pvt Ltd, Tadiran Communication Ltd, BECIL, Megnstar Telecom Pvt Ltd, Array Com India Pvt Ltd, Delton Cable, ISPAI, Siemens Ltd, ISRO HQ, ECIL, Prasar Bharti, AIR, C-Dot, TEMA, Ericsson India Pvt Ltd, Motorola India Pvt Ltd, STPI, C-DAC, Tata Teleservices Ltd. The exhibition attracted a large number of visitors, which included service providers, dealers and distributors of communication and broadcasting equipment and institutional & individual users. People took keen interest in the displayed equipment and sought information about the parameters of various equipment displayed. An Exhibition Assessment Committee, comprising of Lt Gen A K Agrawal, PVSM (Retd), Mrs Neeru Mohan Biswas, Maj Gen C M Logani, VSM (Retd), Secretary General went around assessing the performance of exhibitors. The companies who won the Excellence in Exhibition Awards were: ISRO HQ, Bangalore; Prasar Bharati, Delhi, World Space, India Pvt Ltd and Tadiran Communications Ltd, Israel.

IETE sincerely thanks all the members in the Organizing committees, IETE Centres, IETE fraternity, IETE Staff members at HQ and especially the sponsors for their help in making the event a grand success.

NEWS FROM LOCAL CENTRES

Allahabad

The following activities were organized by IETE Allahabad Centre in the month of September 2005

Sept 9, 2005: A technical visit to AIR, Allahabad for AMIETE and DIPIETE Student members with some senior IETE members.

Sept 10, 2005: M/s Agilent Technologies conducted a one-day Education Symposium at S N Ghosh Auditorium. Presentations were on General purpose instruments, RF/Communication & wireless lab equipments, Network Analyser, Spectrum Analyzer, DSO and Mixed Signal scopes and Advanced Design system and the tool for RF circuit Design & Simulation.

Sept 15, 2005: The Engineers' Day function was celebrated at S N Ghosh Auditorium by arranging a seminar on the topic "Distance Education using Information Technology". Prof K K Bhutani, Director UPTEC and Council member, IETE, spoke about the emerging trends in usage of technology for distance education. Miss Poorva Misra and Miss Ruchi Baranwal highlighted the advantages of technology. Prof U S Tiwary from Indian Institute of Information Technology, Allahabad gave an excellent presentation on the concept of "Tele-Education". He stressed that knowledge management and imparting education should not be considered as commercial activity. Other speakers were Shri Bipin Chand Joshi and Shri Rahul Khare from Naini, Allahabad.

Earlier Prof S G Prakash welcomed the Audience and the guests. The seminar began with garlanding the portrait of Bharat Ratna, Sir M Visveshvaraya in whose memory the Engineers' Day is celebrated every year throughout the country. The life sketch of Sir M Visveshvaraya and vote of thanks were presented by Er P N Gupta, Hony Secretary, IETE Allahabad Centre.

Bangalore

For the month of Aug and Sept 2005 the technical lectures were given by Prof

R Prakash, Prof Cyril P Raj and Smt A Indira on Embedded Processor Architecture, ARM Architecture, VX Work; Operating System & RTOS, Micro Controller 8051 core Architecture, VLSI Design: A Practical Approach, Logic Design using CMOS Circuits, VLSI Design Methodologies, Introduction to software Engineering, Software Development Lifecycle Model-April 2005. Embedded Processors: Addressing Modes in ARM, ARM Instruction Set, VX Works: Multitasking, Semaphores, 8051 Instruction & addressing mode, Embedded 'C' Language Extension, hardware Design with 8051 Micro Controller, VLSI: Sequential Circuit Design and MOS Transistor Fundamentals, MOS models, Layout design 2, Fabrication of MOS, SPIC coding, Dem or win spice, Design of Invertors, Inverter design, static chart & Dynamic Chart, Software Measurement & Metrics, Software Quality Testing and System Requirement & analysis.

Engineers' Day Celebration and 4th IETE-NV Gadadhar Memorial Award presentation were held on Sept 15, 2005. The 4th IETE-NV Gadadhar Memorial Award was awarded to Shri Shirish B Purohit, CEO & Director, Midas Communication Technologies Pvt Ltd, Chennai, by Shri T V Srirangan, DFIETE. Prof C Murali, Chairman, IETE presided over the function.

Dehradun

The IETE Dehradun Centre organized a seminar on "Advances in Image Processing Techniques" from 01-03 July 2005. Shri A K Shukla, Chairman, welcomed the guests. The seminar was inaugurated by Dr B R Arora, Director, Wadia Institute of Himalayan Geology, Dehradun and Director, DEAL. Dr S C Jain briefed the gathering about the details of technical lectures. Participants were from DRDO

Lab, Services and Academia. The seminar covered in brief advanced topics like -Support Vector Machine and its applications to Image Analysis, Rough Sets, SAR data Processing, SAR Interferometry for height estimation, Practical based Image Compression, Color Image Processing, Evolutionary Computing, Soft Computing, Granular Image Processing. These topics were covered by eminent professors like Prof S K Kaul, Prof S Bandopadhyay, Prof C A Murthy from Machine Intelligence Unit, ISI, Kolkata; Prof K S Rao and Prof Y S Rao from CSRE, IIT Bombay and Prof Pabitra Mitra from IIT, Kanpur. The technical presentations from different vendors was also arranged during the seminar. Hony Secretary, of IETE Dehradun Centre Shri Ajay Malik proposed the vote of thanks.

Goa

The subcentre held a workshop on Introduction to ORCAD on Oct 23, 2005 in Computer Laboratory of ETC Department of Govt College of Engineering, Farmagudi, Ponda, Goa.

Hyderabad

A two-day workshop on "Digital Image Processing" was conducted during Sept 3rd-4th, 2005. It was inaugurated by Shri R Venkataraman, Vice-Chairman, IETE, Hyderabad on Sept 3, 2005. Dr M S Bhat, Vice-Chairman, Hyderabad Centre, was the Chief Guest for valedictory function on Sept 4, 2005. He also presented certificates to the participants.

Kolkata

The centre conducted the following students activities:-

To give thrust to the "Academic Activities" of the centre, IETE Kolkata Centre introduced English speaking and personality development course. The lack of

communication in English, mannerism, personality etc needed improvement to enhance the competitiveness for students, who had the language problem. The language barrier was a big handicap. Lectures in the classes, study materials being used and examination etc being conducted in English, was not only affecting their academic performance but also their placement chances efforts after completion of courses.

Short-term courses on "Computer Hardware and Networking".

Organized a students' competition on "Technical Essay Writing" and Presentation of selected Essays. The students were invited to write a Technical essay and send the entry to the centre by e-mail/ hardcopy by Oct 30, 2005. The results would be declared on Nov 25, 2005.

The Student members of IETE Kolkata Centre celebrated Viswakarma Puja in the centre on Sept 17, 2005.

IETE Kolkata Centre, who in its sincere efforts tries for placement assistance of IETE student members, request the students in the final phase of the course to deposit their CV with the librarian. The centre would appreciate if the students placed outside confirm back to the centre of their placement as it would raise the morale and motivate the students undergoing the courses at the center.

Summer training of IETE students has been started with collaboration of NSCBTTC- Kalyani of BSNL from this year. 17 students of DipIETE (ET), 7 students of AMIETE (ET) and 5 students of AMIETE (CS) have joined and completed the courses of 1 month duration.

Mumbai

Technical lecture was held on "RF ID & Applications" by Shri N B Patil, Director, Synergy Installation Pvt., Ltd, Mumbai on Sept 27, 2005 at BSNL Complex, Juhu Road, Santacruz (W), Mumbai.

Noida

A technical lecture on "DTH in India" by Shri D P Singh, Director Engineering, Satellite Communication, Doordarshan, New Delhi was arranged at IETE Noida Centre on Oct 23, 2005. Dr S S Agrawal, Vice President, IETE & Zonal Coordinator (North) was the Guest of Honour. Various technical aspects of DTH such as digital compression & encryption of large number of channels and beaming them from very high power satellites was explained in a very lucid way alongwith the future scenario of DTH in India. The audience was informed about the constituents of Free to Air (FTA) DTH bouquet, i.e. 19 Doordarshan Channels & 14 Private channels including Aaj Tak & Headlines Today. The matter regarding the interoperability of set of boxes with all the DTH platforms that are to come in India was also discussed.

Palakkad

The new address of the IETE Palakkad Sub-Centre is as follows:
Phankam Complex
Mukkananthparambu, West Yakkara
Palakkad-678 001, Kerala
Ph: (0491) 2525666

Warangal

The Sub-Centre conducted a seminar on "Trends in Telecommunications" by Shri K K Thakur, GM, Telecom BSN, Warangal, on Sept 9, 2005. The response was very good.

NEW AWARDS INTRODUCED BY IETE

IETE- R S Khandpur Medical Instrumentation Gold Medal

This award has been instituted through a donation made by Dr R S Khandpur, Fellow of IETE. The award will be given annually to a person for his lifetime achievements and outstanding contribution at national / international level in the field of 'Medical Instrumentation' covering education, research, design, development and production.

The award consists of a medal and a citation. The recipient will be invited to deliver a lecture on the work leading to the award on suitable occasion at the IETE Centre nearest to the location of awardee.

IETE - Brig M L Anand Award

The award has been instituted by Mrs Kiran and Shri Arjun Malhotra in memory of Brig M L Anand who was a Fellow of IETE, for awarding outstanding work in development of applications of networking and internet with emphasis on usage in everyday life and commerce.

The award will be conferred annually for original contribution of excellence in the field of development of applications of networking and Internet with emphasis on usage in everyday life and commerce, during the last 5 years.

The award consists of a gold medal, a citation, a cash prize of Rs 10,000/- and a travel grant of up to a maximum of Rs 7,000/-. The recipient will be invited to deliver a lecture on the work leading to award on a suitable occasion at the IETE centre nearest to the location of awardee. The award will be given for the first time in the year 2006.

ACHIEVEMENT

Partha Pratim Bhattacharya (M-165678) was felicitated with Young Scientist Award by International Union of Radio Science (URSI)-Belgium. He is Assistant Professor in the Department of Electronics and Communication Engineering, Netaji Subhash Engg College, Garia, Kolkata. One of his paper titled " Path Loss Exponent and User Velocity Dependent Variable Hysteresis Margin Based Call Handover Algorithm" has been accepted for publication in the 28th General Assembly of International Union of Radio Science (URSI), held in Oct 2005.

ISF ACTIVITY

New IETE ISF was opened at Dept of Electronics & Telecommunication NDMVP College of Engineering, Nashik, in April 2005. It was inaugurated by Shri A V Kulkarni, Chairman, IETE Sub-Centre.

2nd ISF under Palakkad Sub-Centre at Nehru College of Engineering & Research Centre, Pampady, Trissur, was inaugurated on June 23, 2005.

Centre for Advanced Technology, Haryana Engineering College, Jagadhri, in collaboration with IETE. Chandigarh Centre organized one-week workshop on "Applied Soft Computing" (SOCO-2005) held on July 25-30, 2005. The workshop was inaugurated by Prof (Dr) Krishnan Gopal, Chairman Planning and Development, National Institute of Technology, Kurukshetra. 67 participants from 27 colleges from all over India participated. The workshop laid the theoretical foundation of Generic Algorithms, Neural Networks, Swarm Intelligence and Fuzzy Logic Technology. The rigorous lab sessions stressed on the application of these methodologies. This

workshop was planned to create an opportunity to engineers, scientists and academicians to come to a single platform to discuss, debate, learn and apply this new set of useful technologies. The participants were then expected to create and disseminate new knowledge as their contribution. The course was open to all the faculty members/researchers from engineering disciplines.

Fr C Rodrigues Institute of Technology, Vashi (CRIT IETE-ISF), organized Debate competition, Inter- Departmental Techno-cultural week (EXT aCy) and conducted the Extensive Lecture Series on topics like Advances in Microstrip Antennae, Biometrics, embedded systems (Aug 2005).

The Amrita-IETE Students Forum organized " TITANIQ 2005" an intra-university symposium on Sept 8, 2005. This consisted of three contests: "Animatronics"-multimedia, " Logo Motif"- Poster design and " Stupendous Search"-quiz.

Vidyalankar Institute of Technology, ISF was inaugurated on Sept 14, 2005 by Shri G S Tuteja, Chairman IETE Mumbai Centre. The ceremony was followed by "Prof K Sreenivasan Memorial Award Lecture" on "A New Method for Minimal Realization of logic functions and motivate students and teachers for Research" by Dr T S Rathore.

ISF of Mahaveer Institute of Science & Technology, Hyderabad, organized a seminar on " Microwave Measurements" on Sept 16, 2005.

Inauguration of IETE Students' Forum at Vel Sri Rangarajan Sakunthala College of Multimedia-Avadi, Chennai, by Shri S A Soundararajan, IETE Council Member on Oct 6, 2005.

President	D P Sehgal
Vice-Presidents	S Narayana R P Bajpai S S Agrawal
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Cooped	B Kumar Om Vikas

OBITUARY



Shri P S Dhagat (F-001987), former E-in-C, All India Radio, expired in August 2005. Born in Nov 1926 at Damoh, Shri Dhagat was a senior member of IETE and had contributed to the discipline of Electronics & Telecommunication as a Broadcast Engineer. He was associated with the installation of a number of Akashwani studios and a number of Medium Wave & Short Wave transmitters all over India. Shri Dhagat is credited with a number of achievements, one of them being- the design and installation of technical set-up for live broadcast of Asiad'82, CHOGM and NAM meetings held in 1983.

We convey our condolences to the bereaved family and pray for his soul to rest in peace.

j k j



Dr N M Parthasarathy (F-43686L) : Council Member, IETE passed away suddenly and untimely on Oct 29, 2005 at Chennai. Shri Parthasarathy was BE (Electrical Engineering), Masters ACGI (London), PhD and DSc. He served IETE in the capacity of Chairman Chennai Centre (1998-2000) and nominated Council Member (2000-2002). Currently he was also elected as a IETE Council Member (2003-06) and Chairman ICC & Zonal Coordinator, Southern Zone. Dr Parthasarathy had presented papers in international and national seminars. He had been associated with important programmes of software development for aircraft and PSLV/ASLV rockets. Currently he was Chairman, ETK International Ferrites Pvt Ltd, Chennai. Dr Parthasarathy was also Life Member of USI, Life Fellow (Judge) Indian Council for Arbitration-Arbitrator and International Council ICC Arbitration Chambers, New Delhi.

IETE mourns the untimely death of Dr Parthasarathy with the family members especially with Mrs P Devatha, wife of Dr N M Parthasarathy, who is a Council Member of IETE representing Organizational Members. We pray to the Almighty to give peace to the departed soul and courage to the family to bear the irreparable loss.

CALENDAR OF EVENTS

Subject	Date	Venue	Contact
+ National Symposium on Ocean Electronics (SYMPOL-2005)	15-16 Dec 2005	Cochin	e-mail: prspillai@cusat.ac.in www.doe.cusat.edu/sympol
+ International Radar Symposium India IRSI-2005	19-22 Dec 2005	Bangalore	D Rajagopal Coordinator IRSI-05IRSI Secretariat, Post Box No. 9339, C V Raman Nagar, Bangalore-560 093 Ph : +91-80 2524 2860; e-mail: irsi@radarindia.com www.radarindia.com
+ 5 th Indian Conference on Microwaves, Antenna, Propagation and Remote Sensing- InCMARS-2005	20-22 Dec2005	Jodhpur	Prof O P N Calla Chairman ICRS (Conference) "Om Nivas", A-23, Shastri Nagar Jodhpur 342003 Tel: 91 0291 2613123 Fax : 91 0291 2626166 E-mail: opncalla@yahoo.co.in Icrs2003@sancharnet.in
+ 1 st National Conference on "Emerging Trends in Instrumentation Systems" NCETIS'06 "	5-6 Jan 2006	Coimbatore	Dr M Rangasamy, Convenor Dept of Electronics & Instrumentation Engg Sri Rama Krishna Engg College, NGGO Colony Post, Coimbatore-641 022 Ph : 0422 2460088, 2461588; Fax : 2461588 Fax : 0422- 2461089 Website: www.srec.ac.in
+ International Symposium on "Electronic Communication, Radio Surveillance, Automation, Control & Safety for Mines & Hazardous Areas"	23-24 Jan 2006	New Delhi	Dr Sudhir Kumar Scientist 'F' Dy Dir, Convener Ph : 0091 326 203010/203070/203090 Fax : 0091 326 202429/202774/203156 e-mail: ddmisra@csir.res.in Website: www.csir.res.in/cmri
+ International Conference on Next Generation Networks (ICNGN-2006)	9-11 Feb 2006	IETE,	Dr K T V Reddy MumbaiHony Secretary, IETE Mumbai Centre Ph: 022 26610124 Fax : 022 26609598, e-mail: ietemumbai@vsnl.net
+ National Level Technical Symposium- Enantiosis-2006	March 2006	Nashik	Prof D M Chandwadkar, Head Electronics Engg Dept K K Wagh Institute of Engg Education & Research, Hirabai Haridas Vidyanagri, Amrut Dham, Panchavati Nashik-422003 ; Tel : 0253 2516671 Fax : 0253 2511962, e-mail: kkwcoe_nsk@sancharnet.in

From Chairman Publications Committee



During the last year, we paid attention to the timely publication of IETE journals and Newsletter. Also, improvements in contents were emphasized. However, improvement in contents is a continuous process and more so with the ever-changing technologies of electronics and telecommunications and its allied areas. It is a long way to go to reach the standards of well-known institutions that are publishing the information dealt with by IETE.

I solicit the suggestions for improvement from readership of IETE journals and Newsletter.

M L Gupta
Chairman, Publications Committee.



Attending Student's queries on Sept 22, 2005. Seen on the dais are (L R) Prof Anita Dandekar, Dr S S Aggarwal, Lt Gen D P Sehgal, Shri S Narayana, Maj Gen C M Logani and Wg Cdr D N Misra.



A Students' representative presenting his point of view during Students' Session.



A section of audience of students and council members during Students' Session.



Lt Gen D P Sehgal, President IETE interacting with students.



Academic Awardees with President IETE.



Engineers' Day celebration at IETE Allahabad Centre on Sept 15, 2005.



IETE Bangalore Centre, celebrating Engineers' Day.



Annual General Meeting in progress at IETE Chandigarh Centre.



ISF function at IETE Nashik Centre.



A view of the audience at IETE Noida Centre, during technical lecture on "DTH in India."



President IETE, Lt Gen D P Sehgal inaugurating the national seminar on "Broadband Communication" at IETE Pune Centre.

Note: The Institution of Electronics and Telecommunication Engineers assumes no responsibility for the statements and opinions expressed by individual author and speaker.

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