



सह वीर्यं करवावहे

FROM PRESIDENT'S DESK



Telecommunication has registered an explosive growth during past two decades world over. Digital signal processing, micro-miniaturization of silicon devices and development in computer hardware & software have been responsible for speeding up the technologies used in telecommunication and IT. Indigenous development, privatization and liberalization have helped in availability of world-class infrastructure and sub-systems in our country.

Communication for growth is the new theme for developing nations. In our context it fits well as we have a very low teledensity and there is no connectivity in majority of rural areas where 70% of our population resides. Major cause for this low connectivity in rural and remote areas is the low per capita income of the people residing there. The cost of telecommunication infrastructure is not affordable for the residents and economically viable for the operators and service providers.

Thanks to the digital technology and micro-miniaturization, which continues to bring down the prices of telecom infrastructure. Government has identified existing backbone infrastructure, the technology, sub-systems and willing service providers to set-up atleast one communication infrastructure at every village to provide Internet and telephone for voice, video and data communications. After cutting costs and pooling resources, it has been made economically viable and sustainable through a specially designed business plan. And thus it will provide a means of communication to share information and impart knowledge electronically. This would generate development and growth opportunities for the local people. With connectivity available, I feel IETE has got a big opportunity to impart knowledge of electronics, telecommunications, IT and computers to the people in those areas through e-education. The aim is to motivate local people to maintain and operate the telecommunication infrastructure and also extend connectivity to every house in the village. This can contribute towards improvement in national teledensity and economic growth.

Let us put our abilities to work and create content, be a partner in imparting knowledge through IETE e-education programme.

(K K Aggarwal)

NEWS FROM HEADQUARTERS

Newly elected IETE Council Members - 2003-06



Dr S S Agrawal (F-60909L) presently an Emeritus Scientist (CSIR) has served CEERI for 30 years and retired as Director grade Scientist and Head, CEERI Delhi. He is also Advisor C-DAC (Noida), CFSL (Chandigarh) and ICS (Hyderabad). Dr Agrawal is a renowned scientist in IT and Speech acoustics language technology. He has completed several international projects in Indian languages. He has worked in MIT Cambridge, OSU, UCLA and in many laboratories in Europe and Japan. Dr Agrawal has held important positions in national / international professional societies and committees. Dr Agrawal has made commendable contributions to IETE, as Council Member, Chairman Delhi Centre, Hony Treasurer, Chairman ICC, IT & CE Committees.



Shri M L Gupta (F-28243L), C.Eng, he is serving as Chief Engineer in Ministry of Foreign Affairs Govt of Netherlands and presently posted at Royal Netherlands Embassy, New Delhi. He is responsible for installation and maintenance of sophisticated electrical, electronics and telecommunication systems. He has won many international awards and honours for outstanding professional work. He has been actively associated with the functioning and growth of IETE Delhi Centre since 1985 and held positions of Hony Secretary (four terms), Hony Treasurer and SAC Chairman. Presently Shri Gupta is a Vice-Chairman of Delhi Centre.



Wg Cdr D N Misra (Retd) (F-14255L) is MSc (Physics) from AMU. He did his Aeronautical Engineering (Electronics) from AFTC. He is FIE, Chartered Engineer (I), FIETE, MA (Pub Admn), PG Dip Pers Management. Before joining IAF he worked as Engineer AIR Delhi and Ajmer. He was commissioned in IAF in June 1962 in Signals Branch and worked in Guided Weapons Systems as Maintenance Engineer and as Instructor of Electronics Telecom and ECM Systems. Wg Cdr Mishra earned commendations from the Chief of Air Staff and AOC-in-C for his project and repair works respectively. He has been closely associated with

IETE for a number of years and contributed significantly towards the development of infrastructure at Chandigarh Centre.



Dr (Mrs) Sneh Mohan (F-62) obtained MPhil and PhD degree in Physics from Institute of Advanced Studies. She was Post Doctoral Fellow at IIT Delhi and Research Associate at McGill University, Canada and Drexel University, USA. She was Council Member during 1999-2002 and Chairperson of IT and Computer Education Committee. Senior Member of CSI, she was President of Computer Sciences Section of the Indian Science Congress during 2001-02. Currently, she is Executive Director of IETE Foundation. Her professional interests include IT, Environmental and Management issues. She has published a number of papers in national and international journals.



Dr N M Parthasarathy (F-43686L) is BE (Electrical Engineering), MAE, ACGI (London), PhD and DSc degree. He has served IETE in the capacity of Chairman Chennai 'Centre' and nominated Council Member. Dr Parthasarathy has presented papers in international and national seminars. He has been associated with important programmes of software for aircraft and PSLV/ASLV rockets. Currently, he is Chairman, SALN College of Engineering and Management and SLN College of Sciences. Dr Parthasarathy is Life Fellow of IETE, Life member USI, Life Fellow (Judge) International Council of Arbitration and International Council Arbitrator.



Lt Gen Dharam Prakash Sehgal, PVSM, VSM, ADC (F-23941L) presently SO-in-C, Army Headquarters has been actively involved with strategic perspective planning of telecommunication activities in Army for over three decades. He has been instrumental in planning and executing several networking, Information Technology and Electronic Warfare projects involving state-of-the-art technology. He has held key appointments in the Army. He has completed prestigious courses of Long Defence Management at National Defence College. Lieutenant General Sehgal has an MTech from Delhi University. He specializes in Front-End Amplifiers (LNAs) and Spectrum Management. He is responsible for planning and executing technical education in Army Signal Corps. He is on the Board of Directors of ITI, BEL and ECIL.



Brig Laxman Singh, VSM (Retd) (F-43034L) served the Corps of Signals for 30 years and was awarded Vishist Seva Medal. He commanded a Divisional Signal Regiment and was faculty of Communication Engineering, MCTE. Retired as Deputy Director General from Army Headquarters.

Later he served as Director in Cabinet Secretariat. He was Defence Advisor to ECIL and consultant to ER&DCI (Noida). A regular contributor to newspapers, technical and military journals on subjects of topical interest. He has authored a book titled "Letters from the Border and Less Told Stories" of his experiences as Signals Officer of 7 Brigade in 1962 Sino Indian Conflict in NEFA. He has more than 20 years association with IETE, a founder member of Noida Centre of IETE, has served the centre as Vice-Chairman in various stages of its evolution.



Ms P Devatha represents IETE Organizational Member in the Council. She is a trustee of Vellore Educational Trust SALN College of Engineering & Management, Maruthi Institute of Technology (ASC IASE Deemed University) and Sri Lakshmi Narasimha College of Sciences. Ms Devatha is

presently Director of Electrotechnik Private Ltd and ETK International Ferrites Ltd.

IETE ANNUAL AWARDS

For the year 2002, the awardees for the different IETE Annual Awards are:

26TH IETE-RAM LAL WADHWA GOLD MEDAL for outstanding contribution in the field of electronics and telecommunication engineering in the broadest sense, during the last ten years. The award consist of a medal and a citation.

Dr G M Cleetus of LRDE, Bangalore

14TH IETE-HARI RAMJI TOSHNIWAL GOLD MEDAL for outstanding innovations for application to industry, preferably in the field of electronic instrumentation leading to the development and production of electronic instruments and related systems for use in India and abroad. The award consists of a medal and a citation.

Shri Alok Mukherjee of R & DE (Engineers), DRDO, Pune

19TH IETE-BIMAL BOSE AWARD for outstanding contribution in the field of power electronics in the

broadest sense. The award consists of cash prize of Rs 5000/- and a citation.

Dr S K Mandal of National Metallurgical Lab, Jamshedpur.

17TH IETE-LAL C VERMAN AWARD for outstanding contributions in the areas of standardization, quality control and precision measurements during the last ten years. The award consists of a medal and a citation for the selected awardee and a plaque for the awardees' organization. The recipient is invited to deliver an address based on the work leading to the award at the Mid-Term Symposium of the IETE.

Shri Subburaj of ETDC, Chennai

10TH IETE-FLT LT TANMAYA SINGH DANDASS MEMORIAL AWARD for outstanding contribution in the field of Avionics, covering education, research, design development and or production, during the last ten years. The award consists of a medal and a citation.

No Award

10TH IETE-PROF K SREENIVASAN MEMORIAL AWARD for outstanding contribution in teaching electronics and telecommunication engineering in the broadest sense during the last ten years. The award consists of a medal, cash prize of Rs 1000/- and a citation. The recipient is invited to deliver an address based on the work leading to the award at a technical meeting of the IETE.

Dr Suneet Tuli of IIT, Delhi

8TH IETE-PROF SVC AIYA MEMORIAL AWARD for outstanding contributions in motivating research work in electronics and telecommunication engineering in the broadest sense during the last ten years. The award consists of a medal, cash prize of Rs 1000/- and a citation. The recipient is invited to deliver an address based on the work leading to the award at a technical meeting of the IETE.

No Award

9TH IETE-PROF S N MITRA MEMORIAL AWARD for outstanding contributions and leadership role in radio broadcast science and technology in the broadest sense during the last ten years. The award consists of a medal, cash prize of Rs 1000/- and a citation. The recipient is invited to deliver an address based on the work leading to the award at a technical meeting of the IETE.

No Award

6TH IETE-BAPUSEETHARAM AWARD (Biennial) for outstanding contributions in R&D and / or production of Electronic Components. The award consists of a Medal and a citation.

Lt Cdr R P Gurung of Indian Navy

6TH IETE-BV BALIGA MEMORIAL AWARD for distinguished contributions in the field of electronics and communications with emphasis on R&D industrial development during the past 10 years. The award consists of a medal, a citation, a cash prize of Rs 10,000/- and a travel grant of a maximum of Rs 7,000/-.

Dr Aloknath De of Hughes Software System (Presently in ST Microelectronics, Noida)

2ND IETE-N V GADADHAR MEMORIAL AWARD for excellence in the field of electronics and telecommunication engineering with emphasis on Mobile Radio Communication. The award will be consists of a gold medal, a citation, a cash prize of Rs 10,000/- and a travel grant of up to Rs 7,000/-. The award ceremony will be held at Bangalore organized by IETE Bangalore Centre in a suitable function in the second half of every year.

Shri S Satyamurthy of Combat Vehicles Research & Development Establishment, Avadi, Chennai

2ND IETE-BR BATRA MEMORIAL AWARD is open to all corporate members of IETE with a standing of 5 years or above, who have significantly contributed to the overall growth and honour of the Institution or have rendered selfless service to the cause of the Institution over the years for furtherance of its basic aim and objectives. The award will consist of a gold medal and a citation.

No Award

5TH IETE-CORPORATE AWARD FOR PERFORMANCE EXCELLENCE IN ELECTRONIC SYSTEMS - 2002 in recognition of outstanding performance and growth rates achieved by an organization / industry / association / institution in the field of electronic systems in the country during the past 3 years through excellence in engineering R & D, optimum utilization of appropriate technologies, sound management practices and other initiatives.

M/s Midas Communication Technologies Pvt Ltd,
Chennai

5TH IETE-CORPORATE AWARD FOR PERFORMANCE EXCELLENCE IN ELECTRONIC COMPONENTS - 2002 in recognition of outstanding performance and growth rates achieved by an organization / industry / association / institution in the field of electronic components in the country during the past 3 years through excellence in engineering R & D, optimum utilization of appropriate technologies, sound management practices and other initiatives.

GE BE Pvt Ltd, Bangalore

5TH IETE-CORPORATE AWARD FOR PERFORMANCE EXCELLENCE IN SOFTWARE - 2002 in recognition of outstanding performance and growth rates achieved by an organization / industry / association / institution in the field of software in the country for the past 3 years through excellence in visualization of engineering problems and writing software solutions, optimum utilization of resources, sound management practices and other initiatives.

No Award

IETE-IRSI (83) AWARD for outstanding contribution in the field of Radar Science / Microwave Systems / Navigation / Remote Sensing / Upper Atmospheric Studies / Troposphere / Weather Studies using Microwave Methods / Materials Research / Electronic Warfare Techniques / Global Positioning System / Detection System etc in the broadest sense. The award consists of a cash prize of Rs 10,000/- a citation and a travel grant of Rs 10,000/- to one awardee to travel to at least three IETE Centres, delivering lectures on the work that qualified for the award.

Shri L S Radhakrishnan, LRDE, Bangalore

AWARDS FOR ARTICLES PUBLISHED IN IETE JOURNALS DURING THE YEAR 2001

109 articles published in IETE Journal of Research, IETE Technical Review and IETE Journal of Education in the calendar year 2001 were sent to 28 experts for evaluation. Based on the assessment of experts board decided the following awards:

- **IETE- S K Mitra Memorial Award** for the Best Research Oriented Paper:
Analysis of Non-leaky Conductor-backed Coplanar Waveguide fed Microstrip Patch Antennas by **D J Jahagirdar** and **R D Stewart**, Vol 18 No 6, Nov-Dec 2001, pp 499-509, *IETE Technical Review*.
- **IETE-J C Bose Memorial Award** for the Best Engineering Oriented Paper:
A Distributed Hospital Resource Scheduling System using a Multi-Agent Framework by **Umesh Deshpande**, **Arobinda Gupta** and **Anupam Banerjee**, Vol 18 No 4, July-Aug 2001, pp 263-275, *IETE Technical Review*.
- **IETE-M N Saha Memorial Award** for the Best Application Oriented Paper:
Electromagnetic Transmission through Apertures of Arbitrary Shape in a Conducting Screen by **Dominic O Konditi** and **Sachendra N Sinha**, Vol 18 No 2, Mar-June 2001, pp 177-190, *IETE Technical Review*.

IETE-K S Krishnan Memorial Award for the Best System Oriented Paper:

V talk: A System for generating Text-to-Audio-Visual Speech by **Prem Kalra, Ashish Kapoor and Udit Kumar Goyal**, Vol 18 No 4, July-Aug 2001, pp 307-314, *IETE Technical Review*.

IETE-CDIL Award for Industry for the Best Paper contributed by authors working in industry.

E-Commerce and Soft Computing: Scopes of Research by **Jayanta Basak and Manoj Kumar**, Vol 18 No 4, July-Aug 2001, pp 283-293, *IETE Technical Review*.

IETE - Gowri Memorial Award for the Best Paper on topic of General Interest:

Bioinformatics in Clinical Medicine by **Sneh Anand and Jayashree Santhosh**, Vol 18 No 4, July-Aug 2001, pp 253-261, *IETE Technical Review*.

IETE-Students' Journal Awards for the two best papers from IETE Journal of Education:

(i) Basic Regulatory Actions in Process Control by **Pawan Kapur**, Vol 42 Nos 1-4, Jan-Dec 2001, pp 3-13, *IETE Journal of Education*.

(ii) Echo-Cancellation-An Application of Adaptive Signal Processing by **Vimal Bhatia**, Vol 42 Nos 1-4, Jan-Dec 2001, pp 25-28, *IETE Journal of Education*.

IETE ACADEMIC AWARDS

The following students have won prizes mentioned against their names for academic excellence in the examinations held in June 2002 and Dec 2002:

JUNE 2002 EXAM

AMIETE COUNCIL PRIZE III for securing the highest percentage with 60% and above marks and completing Part II of Section B (except project) in two attempts without exemptions.

Santosh Kumar (Mem. No. 123038) AMIETE-ET

SMT RADHABAI KAPRE GOLD MEDAL AWARD for securing the highest percentage with 60% and above marks in aggregate and completing AMIETE in 4 years without exemptions.

Sudesh Kumar Jha (Mem. No. 124105) AMIETE-ET

DIPIETE COUNCIL PRIZE I for securing the highest percentage with 60% and above marks and completing Part I of Section A in one attempt without any exemptions.

Renjith K S (Mem. No. 148636) DIPIETE-ET

Rejani Gopalan (Mem. No. 147140) DIPIETE-CS

DIPIETE COUNCIL PRIZE II for securing the highest percentage with 60% and above marks and completing Part II of Section A in one attempt without any exemptions.

Ratan Dalaji Parmar (Mem. No. 144804) DIPIETE-ET
Pankaj Jain (Mem. No. 143775) DIPIETE-CS

DIPIETE COUNCIL PRIZE III for securing the highest percentage with 60% and above marks and completing Part I of Section B in one attempt without exemptions.

Shabeer R (Mem. No. 133318) DIPIETE-ET

DIPIETE COUNCIL PRIZE IV for securing the highest percentage with 60% and above marks and completing Part II of Section B except practical in one attempt without exemptions.

Choulge Shivshankar R (Mem. No. 121421) DIPIETE-ET

DIPIETE COUNCIL PRIZE V for securing the highest percentage with 60% and above marks in aggregate and completing DIPIETE in 3 years without any exemptions.

Vinod Chandra Joshi (Mem. No. 130828) DIPIETE-ET

DECEMBER - 2002 EXAM

SUBRAMANIAN THYAGARAJA PRIZE for securing the highest percentage with 60% and above marks and completing Part I of Section A in one attempt without exemptions.

Pawan Bansal (Mem. No. 147740) AMIETE-CS

SMT RADHABAI KAPRE GOLD MEDAL AWARD for securing the highest percentage with 60% and above marks in aggregate and completing AMIETE in 4 years without exemptions.

Devanand Kumar (Mem. No. 125744) AMIETE-ET

DIPIETE COUNCIL PRIZE I for securing the highest percentage with 60% and above marks and completing Part I of Section A in one attempt without any exemptions.

Samarendra Bisoyi (Mem. No. 153080) DIPIETE-ET

Sachin Gupta (Mem. No. 149706) DIPIETE-CS

DIPIETE COUNCIL PRIZE II for securing the highest percentage with 60% and above marks and completing Part II of Section A in one attempt without any exemptions.

Renjith K S (Mem. No. 148636) DIPIETE-ET

Krishna Kumar (Mem. No. 149244) DIPIETE-CS

DIPIETE COUNCIL PRIZE III for securing the highest percentage with 60% and above marks and completing

Part I of Section B in one attempt without exemptions.

P Nivas (Mem. No. 141192)

DIPIETE-ET

DIPIETE COUNCIL PRIZE V for securing the highest percentage with 60% and above marks in aggregate and completing DIPIETE in 3 years without any exemptions.

Pandey Ram Datt (Mem. No. 133489)

DIPIETE-ET

IETE GOLDEN JUBILEE AWARDS

IETE has instituted few IETE Golden Jubilee awards during its Golden Jubilee Year. These will be conferred on the eminent persons for their outstanding contributions on the occasion of finale of Golden Jubilee celebrations on September 30, 2003. The awardees are:

IETE Golden Jubilee National Awards

- (i) Telecommunications - Shri Sam G Pitroda
- (ii) Information Technology - Shri N R Narayana Murthy

IETE Golden Jubilee Distinguished Service Honour

- (a) Surviving Signatories of IETE Constitution / Members of the First Council.
 - (i) Dr N B Bhatt
 - (ii) Brig (Retd) P Madan, Padma Shri
- (b) Two senior-most surviving Past Presidents of IETE
 - (i) Lt Gen I D Verma, PVSM (Retd)
 - (ii) Shri S M Agarwal, Padma Shri
- (c) For rendering selfless service of exceptional order for the growth and progress of IETE.

Shri M Madan Mohan

IETE Golden Jubilee Students' Award

(a) AMIETE

Shri Birju H Thacker, Secunderabad (SG-122420) has completed AMIETE exam availing only 7 chances and scored 74.15% without exemptions which is the highest aggregate of marks in past 10 years amongst the successful candidates of his category.

(b) DIPIETE

Shri Kamal Kishore Pant, New Delhi (Mem No 125568) has completed DIPIETE exam availing only 5 chances and scored 77.81% without exemptions which is the highest aggregate of marks in past 10 years amongst the successful candidates of his category.

IETE Council Meeting in a sylvan setting

The 5th (2002-2003) meeting of the IETE Council held on July 14-15, 2003 at the sylvan setting of a hotel resort at Mahabalipuram, about 60 kms from Chennai. While the deliberations of the Committees and the Council were held in the quiet ambience of the resort, the members had an opportunity to look around the world heritage monuments in the form of the eighth century Pallava carvings on the rocks and shore temples in the neighbourhood, marvels in architecture of the times. The members and the invited guests regaled themselves to a performance colourful ethnic folk dance conducted with native verve and vigour.

NEWS FROM LOCAL CENTRES

Bangalore

The Centre conducted the following technical activities:

- Valedictory function of Summer School in Electronics (SUSIE) for school children (Batch-II) was held on July 1, 2003. An electronic project exhibition displaying models prepared by SUSIE students was held on the occasion and a project booklet was published.
- Dr N Sheshagiri delivered a talk on "WiFi the next Market" on June 20, 2003.
- On June 26, 2003 a lecture on "Configurable All-optical Networks" was delivered by Shri Netu Srinivasan, CTO Kirana Networks, USA.
- A lecture on "Availability Tariff" was delivered on June 27, 2003 by Shri Bhanu Bhushan, Director (Operations) Power Grid Corporation of India Ltd. It was jointly organized by IEEE & IETE Bangalore centres.
- Prof B S Sonde, Past President IETE delivered a Golden Jubilee lecture on June 29, 2003. He talked about the growth of IETE, its contribution during last 50 years and the importance of information, communication and entertainment for improving quality of life.
- Prof K Sreenivasan Memorial Lecture was delivered on July 10, 2003 by Dr Surendra Pal, DFIETE. He spoke on "Advance SATCOM Technologies". Dr R P Shrivastava, DFIETE and Former Director LRDE presided.
- A joint lecture by IEEE Bangalore section & IETE Bangalore Centre on "DMC - A framework for distributed measurement and control in large scale distributed sensor networks" by Dr Jay Warrior, Head of Communication Solutions Department, Agilent Laboratories, USA on July 11, 2003.

- From July 21 to July 23, 2003 intensive full time course on GSM was held.
- Other technical lectures held were on VLSI Design Flow & VHDL Basics, VxWorks Device Drivers and its application, algorithms, introduction to embedded system, introduction and software project planning, design for manufacturing and testing, software development life cycle models, thermal and EMI/EMC design, software measurement and metrics, UML and use in embedded systems, software quality assurance.

Chandigarh

A special meeting of the Executive Committee of IETE Chandigarh Centre was held on August 16, 2003, giving members an opportunity to interact with President IETE, Prof K K Aggarwal in a free and informal environment. Shri A K Dimri Chairman of the Centre welcomed the audience and Shri R C Arora, Hony Secretary presented the brief account of various academic activities, developmental programmes and the Silver Jubilee celebrations of the Centre. Prof R S Prasad, Convenor of the Symposium on "Emerging Trends in Networking and Mobile Communication" apprised about the salient features of the symposium which is scheduled for 5-6 September 2003 at Punjab Engineering College, Chandigarh. Students of AMIETE and DIPIETE also had the chance of interacting with the President IETE.

Chennai

World Telecommunication Day was celebrated by IETE Chennai Centre at well attended function on May 17, 2003 at Hotel President, co-sponsored by the IEEE Madras Section, IEE Chennai Branch, IE (India) Tamil Nadu State Centre, Broadcast Engineering Society (India) Chennai Chapter and Videsh Sanchar Nigam Ltd Chennai. Shri N Vittal IAS, Central Vigilance Commissioner (Retd) presided over the function. Speakers on the occasion included Er S S Iyer, Chief General Manager, BSNL, Chennai Telephones, Er P Mohanadoss, Chief Engineer (SZ) All India Radio and Doordarshan, Er Parameswaran, Chief General Manager, VSNL, Chennai and Air Commodore S S Motial, Executive Chairman, Midas Communication (Retd) Technologies Pvt Ltd, Chennai.

Addressing the gathering on the theme of the day: "Helping all of the World's People to Communicate" Shri N Vittal stressed the need for the planners to focus on four C's - the Consumer Convergence (of all media), Competition and Commitment to achieve the objective. The IC needed for this, he brought out was Imagination and Connectivity.

Hyderabad

The IETE Hyderabad centre organized a two-day symposium on "Convergence of Technologies" to mark the Golden Jubilee celebrations of the Institution on July 12 and 13, 2003 at Hyderabad. The symposium was inaugurated by the Chief Guest Shri Prithipal Singh, CMD, BSNL. Prof K K Aggarwal, President, IETE presided over the function and Prof J Anantha Swamy, Vice-Chancellor, Osmania University was the Guest of Honour. Prof K K Aggarwal President, IETE while addressing the gathering at the symposium revealed IETE's plan of opening more centres this year. He said that while three centres-Coimbatore, Palakkad and Dharwar have been added during August-September, the number would touch 50 by the end of the calendar year. The stress is on providing physical infrastructure to the IETE centres. More than 50 per cent of the centres have their own buildings and many more are in the process of acquiring it. It is proposed to connect IETE centres with the headquarters through IETE Intranet in a phased manner. This would help students in a big way. Prof Aggarwal said that IETE wants to reach out to the society and deliver quality education in electronics, tele-communication and IT to enhance their career opportunities and employment chances through improvement in knowledge base.

In his inaugural speech, Shri Prithipal Singh, commended IETE Hyderabad Centre for choosing "Convergence of Technologies"- subject of topical interest for the symposium. He said the deliberations during the symposium would bring out how converging technologies help in business, healthcare, banking, customer satisfaction and thus bring about improvement in quality of life. He said that BSNL is trying to exploit the existing infrastructure of copper wire and telephone exchanges all over the country to deliver broadband services and provide rural connectivity. He revealed that initially broadband services will be introduced in Kolkata, Pune and Bangalore to provide audio, video and Internet on commercial basis. Prof J Anantaswamy released a souvenir on the occasion and addressed the gathering. He said that in informal technical education IETE's contribution is noteworthy. It has benefitted a large section of society particularly around Hyderabad and in general many other parts of Andhra Pradesh. The welcome address was delivered by Shri V Preamsagar Rao, Chairman of IETE Hyderabad Centre.

The symposium was planned in four technical sessions. Mobile Communications-I, Mobile Communications-II, Satellite Based Communication and Broadband Solutions. Each session had an invited paper and four technical papers presented by the technical experts in the respective areas. The emphasis was laid on the effect of convergence of

technologies on the future trends in business, customer satisfaction and life style. New converged technologies are going to transform existing enterprises into lucrative ventures. Therefore, many big companies are investing heavily on R&D. Business is increasingly being organized around the customer satisfaction as also the product. Converging technologies will positively influence work efficiency and production and thus result in lower prices, wider choices and higher standards of customer service and more satisfied customers. Service providers and operators in telecom sector are moving towards becoming integrated players. Service providers are making forays into wireless internet and data services. Cellular operators are in turn entering into web enabled services. The day is not far off when the customers would settle for nothing less than an efficient single point contact for all their communication needs. These include video, telephone and Internet both through wireless and cable. This would be provided on real-time through software that creates intelligence and supports the telecommunication. Flexibility, scalability, upgradability and compatibility with web-enabled applications are pre-requisites for such a comprehensive system.

The symposium was preceded by an exhibition and a tutorial on "Wireless LAN" on July 11, 2003. The exhibition was inaugurated by Prof K K Aggarwal, President, IETE. He said the objective was to bring together people from R&D, academics, services providers, manufactures, users, policy makers to have a dialogue and interaction and to discuss the state-of-the-art technology and its future trends. He wished the organisers, participants and exhibitors a success in their aim.



Prof K K Aggarwal presenting the memento to Shri Prithipal Singh, CMD, BSNL.

The symposium concluded with a panel discussion chaired by Dr T H Chowdary who threw open discussion to all participants to voice their opinions. The panelist included Col M Vijay Kumar, STPI, Hyderabad, Shri Vijay Madan, C-DoT, Hyderabad, Shri Sen G ECIL, Hyderabad, Maj Gen (Dr) R K Bagga, Hyderabad, Shri C S Rao, Country Manager, Te Bangalore and Shri S N Gupta, TRAI, New Delhi.

The vote of thanks was proposed by Shri K A Ramani, Honorary Secretary, IETE Hyderabad Centre.

- The Hyderabad Centre held a valedictory function for 3 weeks Summer School in Electronics for high school students on June 7, 2003. A total 59 students of 8th and 9th class attended the course.

Pune

Shri M Y Thote, Past Chairman of IETE Mumbai and Pune centres, delivered a talk on "Conditional Access System" on July 9, 2003. He dealt very comprehensively on the subject and covered general as well as technical aspects.

Vadodara

- A zonal seminar on "ICE-Emerging Trends" was organized by IETE Vadodara Centre at Hotel Residency during 5th-6th July 2003 as a part of Golden Jubilee celebrations. Shri R K Tyagi, Chairman, IETE Vadodara welcomed the august gathering of eminent personalities, experts, dignitaries, IETE Council Members, invited speakers, chairpersons, senior members and organization and individual delegates from different parts of the country. Prof K K Aggarwal, President IETE delivered the presidential address. He spoke about the active and important role of IETE in imparting quality-engineering education in a era where society is flooded with short-lived, business minded engineering institutions. Gp Capt H Kaushal, Coordinator, West Zone talked about his experience with the centre and circumstances under which the decision for holding the zonal seminar at Vadodara was taken. Dr K C Upadhyaya, Vice-Chancellor, M S University, Baroda was the Chief Guest and inaugurated the zonal seminar by lighting the lamp. He also released the special souvenir. The inaugural function ended with Prof B P Dave delivering the vote of thanks.

Followed by the inaugural function were the sessions spread over two days. These sessions were conducted by Prof A I Trivedi, Head of Electronics

Engineering Department, M S University, Baroda and Shri B D Sharma, Dy General Manager (E&T) ONGC. These sessions saw a technical feast of about thirty contributory papers and eight invited talks on the "Emerging trends in ICE sector".

The concluding session was co-ordinated by Shri Naresh Kumar. It started with felicitation of senior members of IETE Vadodara namely Shri Pinakin Zaveri, Wg Cdr S R Vasavada, AVM N N Shah, Shri K P Gupta, Prof V Y Sane. Shri A K Bhandari, Principal Gen Manager, BSNL, Vadodara Circle gave the concluding address, highlighted the quality and technical aspects of the ongoing telecom revolution. The event ended with Shri Vijay Shah, Hony Treasurer, IETE Vadodara delivering the Vote of thanks acknowledging the direct and indirect contributors to the success of the events. All India Radio, Vadodara broadcasted the highlights of the zonal seminar.

- IETE Vadodara Centre arranged a talk on Vedic Mathematics by Shri Manish Soni at SVIT, Vasad on August 9, 2003.

ISF ACTIVITIES

- Godavari Institute of Engineering & Technology and ISF Forum, Rajahmundry organized a National Student seminar "Technorhythm" on March 8, 2003. About 90 papers were received for the seminar.
- A new ISF at Govt Polytechnic, Amravati to function under Amravati Sub-Centre was inaugurated on April 23, 2003 by Dr V T Ingole, Chairman, IETE Amravati Sub-Centre. The function was presided over by Prof Khadse, Principal Government Polytechnic, Amravati.
- Smt A Indra, Scientist 'G' ISAC & Hony Joint Secretary IETE Bangalore inaugurated the new batch of IETE Students Forum at NTT - IT Centre, Bangalore and delivered a lecture on "Software Requirement Management" on June 28, 2003.
- JNNCE - ISF, Shimoga arranged a technical talk on "Basics of Electrical Wiring and Maintenance of House hold Electrical Appliances" was given by Dr Srinivasa Rao Kunte R, Professor and Head of E&C/TCE Department on May 14, 2003. Technical Quiz Contest, Essay Writing, Debate, Hobby Project

Exhibition, Technical Paper presentation contest were also held in the month of April/ June 2003 along with sports and cultural events. A technical talk on "Cryptography" on the annual function of ISF was arranged on May 25, 2003.

NOTICE

- For kind attention of all corporate members in IETE Chennai Centre

Dear Members,

The election for the Executive Committee of IETE Chennai Centre is to be held soon and will be conducted by the IETE HQ. It is noted that the attendance at the Annual General Meetings held at the Centre has been rather low. It is quite possible that members have not been getting the notice due to change of their addresses. Many notices have been received back by the Centre as undelivered. The names of the members whose notices/communications are being received back are appended below. We request members known to them to help the Institution by finding out and intimating the correct addresses of these members to the Secretary General of IETE at New Delhi at the earliest. Members are also requested to intimate changes in their own addresses immediately to the HQ. We seek the full cooperation of the members of the Chennai Centre in the conduct of its election.

Maj Gen Prem Prakash (Retd),
Chairman,
Local Centres & Infrastructure Committee

ERRATUM

The May-June issue of IETE Newsletter, Vol 5, No.3 2003 had erroneously reported that Brig K Balasubramaniam (Retd) and Prof K K Bhutani were honoured at Ahmedabad Centre during World Telecommunication Day function. The correct message was - Brig K Balasubramaniam (Retd) and Prof K K Bhutani were honoured at Allahabad Centre during World Telecom day function as the 1st Chairman & 1st Hony Secretary of the centre respectively. We sincerely regret the error.

Mail of the following members of IETE Chennai Centre are being returned undelivered:

Name/Membership No.

Mr J Mukhopadhyay A 113420
 Mr V Ravi Shankar A 113421
 Mr M M Nampoothiric A 113425
 Mr A K Pattabiraman AM 025901
 Mr T S Krishnan AM 032481
 Mr Sasidharanm AM 036873
 Mr P Rama Krishnan AM 044514
 Mr S Yogan AM 053434
 Mr V Nagarajan AM 056654
 Mr M S John Bosco, AM 062421
 Ms. B Vijayalakshmi AM 063069
 Mr K Balaji AM 063665
 Mr CH Jaya Prasad AM 065574
 Mr K P Suresh AM 069751
 Mr V Vasudevan AM 069769
 Desai T G Sqn Ldr AM 083603
 Mr G Kumar AM 090717
 Mr M Vijayakumar AM 098090
 Mr Sunil Kumar Singh AM 101155
 Mr T Maharajan AM 102023
 Mr Sahoo Chitta Ranjan AM 102521
 Mr Moti Kumar AM 102664
 Mr Konkimalla M Kumar AM 102921
 Mr Sahoo Ashok Kumar AM 102953
 Mr Dangal Gyanesh AM 103403
 Mr Rath Sanjiba Kumar AM 103496
 Mr Pengonda G K Gupta AM 103806
 Mr Odaiyappan AM 104082
 Mr Sushil Singh AM 104241
 Mr Prasad Jai Prakash AM 104252
 Mr Sridharan Shashikanth AM 104939
 Mr Asem Khomei Singh AM 106460
 Mr R Magesh AM 107336
 Mr M Gopalakrishnan AM 115068
 Dr S Ramakrishnan AM 126914
 Ms V Veteriselvi AM 131664
 Ms G M Rajathi AM 149833
 Ms D Vijayalakshmi AM 150518
 Ms S V T Sangeetha AM 150541
 Ms K Umamaheswari AM 150542
 Ms A Swarnalatha AM 150555
 Mr S. Muthukumar AM 150556
 Mr P Vijayalakshmi AM 150891
 Mr S Thiruvengatachari F 000535
 Mr P Viswanath Menon F 014887
 Mr V T V Sharma F 015886

Name/Membership No.

Mr V S Sundarakrishnan 016111
 Dr A Mathialagan F 024291
 Prof P V V S Sastry F 028084
 Mr S Ramamurthy F 028502
 Mr N Reguraman F 029484
 Mr T C Ramadorai F 031935
 Mr P K Subramanian F 044455
 Dr N Gunasekaran F 050758
 Lt Col D Jayaramaiah F 055829
 Mr L Satyanarayana F 055839
 Mr P Kandaiah F 062203
 Mr S V Raghavan F 062646
 Mr V S Sundaramurthy F 062787
 Mr K S Jamestin F 091205
 Mr V K N Perumal F 096211
 Mr R Rangaswamy F 101219
 Cdr INNR Iyer (Retd) F 102828
 Mr N C Ramadas F 110981
 Mr B K Ravi Raju F 113430
 Sri S. Satagopan F 113453
 Mr C S Premakar F 116198
 Mr K Ramamurthy F 116415
 Mr V Abdul Latif F 122821
 Mr Amalrajan G Joseph F 127852
 Dr K P Thooyamani F 131623
 Mr B K Ravi Raju F 11343
 Sri S. Satagopan F 113453
 Mr C S Premakar F 116198
 Mr K Ramamurthy F 116415
 Mr V Abdul Latif F 122821
 Mr Amalrajan G Joseph F 127852
 Dr K P Thooyamani F 131623
 Mr T Mahadevan F 131625
 Lt Col S K Sharma F 133071
 Mr P Seshavataram Surya F 149838

Name/Membership No.

Mr K Nageswaran M 000005
 Mr S Swaminathan M 008235
 Mr C N Vijayamurthy M 011518
 Mr N Devanna M 011758
 Mr M V J Menon M 020983
 Mr S Ramamurthy M 022479
 Mr C Krishna Murthi M 041648
 Lt Col J W Hunt (Retd) M 041736
 Mr S Suresh Ebenezer M 047099
 Mr Kesai Ashok Saheblal M 048884
 Mr P V Lakshmi Narayanan M 055863
 Mr J Chandra Sekharam M 058872
 Mr K Nagaiah M 060945
 Mr P V Subbarao M 062230
 Mr T Hari Narayanan M 062232
 Mr N R Balasubramanian M 062830
 Mr A S V Sarma M 089980
 Mr J Venkatraman M 092673
 Mr R Ramaswamy M 092970
 Mr R F I Ponnusamy M 099774
 Mr N Kumaravel M 100782
 Maj V P Sharma M 106162
 Mr S Venugopal M 110322
 Mr M S Murthy M 113373
 Mr M Srinivasan M 113382
 Mr G Ramachandran M 116241
 Ms Geetha Rani Perumal M 116373
 Mr M Maniventhan M 120837
 Mr Gupta Bipin M 123919
 Mr R Krishnan M 128810
 Mr Aruldoss T John M 130863
 Ms V Latha M 131631
 Mrs Joans, Mary M 131634
 Mr R Muthaiyan M 150501

• **Newsletter through Website: Kind Attention Corporate Members**

As decided by IETE Council, IETE Newsletter would be made available electronically through IETE Website www.iete.info w.e.f January 2004.

The readership is once again requested to intimate their requirement of hard copy, if any to the Managing Editor, IETE so as to reach him by **October 30, 2003.**

DISTINCTIONS

IETE Honorary Fellow



Shri F C Kohli obtained his BSc (Hons) Elec Engg degree from Queen's University, Canada and MS (Elec Engg) degree from Massachusetts Institute of Technology, USA. He worked in Canadian General Electric Company as an Engineer and subsequently with Ebasco International Corp., New York.

In India he worked with Tata Electric Company, Bombay as Deputy General Manager and later on as Deputy Chairman of Tata Consultancy Services. He was also a Director on the Board of Tata Sons Ltd., Tata Industries Ltd., Tata Press Ltd., Tata Electric Cos, Tata Finance Limited, Tata Gangeshwar Ltd. Shri Kohli was the Chairman of Tata Elxsi (I) Ltd. and Tata Infotech Ltd.

He has published many technical articles in national and international journals. Shri Kohli won many prestigious awards. He was conferred Padma Bhushan in 2002 one of the most coveted awards by the Govt. of India.

Shri Kohli is still actively associated with professional bodies like the Computer Society of India, the Institute of Electrical and Electronics Engineers (New York), The Institution of Electrical Engineers (UK), the Indian National Academy of Engineering and the Institute of Management Consultants of India. In the past he has held the positions of President, Chairman in a number of these professional bodies. Presently, Shri Kohli is a Director in Media Lab Asia Ltd.

IETE Distinguished Fellows



Prof R K Arora is currently Professor Emeritus, Computer Science and Engineering at the Indian Institute of Technology (IIT) Delhi. He obtained his Master's Degree in Mathematics from Delhi University, Master's (Hons) equivalent in Computer Sciences from BCS, UK and Doctoral Degree in

Computer Science from IIT Delhi. He has had a long association (1963-67) with computer group at TIFR Bombay. He served as post-doctoral fellow at the Institute of Computer Science, University of London during 1971-73 and as Visiting Professor at Universities of Southampton, Oxford, Kent and Cambridge, UK during 1978. He was also associated with the parallel computing group at Edinburgh, UK in 1991 and Software Engineering Institute, Carnegie Mellon University, Pittsburg, USA during 1994-

95. In India he has been associated in various capacities with government departments namely DOE, DST, MHRD, AICTE, C-DOT, DOEACC, Technology Advisory Board CSIR, National Accreditation and assessment Council (NAAC), UGC and ET&T. He has been on the governing council of NSIT, JNU, DU, Thapar-IET Patiala, IGNOU, JPIIT and the IT industry for the promotion and growth of computer education and software development. Prof Arora is author of several research publications in national and inter-national journals. He has supervised many doctoral thesis.

He had been the President of the Institution of Electronics and Telecommunication Engineers (1996-98). Prior to that he served IETE in various capacities including Director IETE ALCCS. He is consultant to many software organization and Chairman of MC & IT Examination Board of DOEACC courses.



Lt Gen D P Sehgal, PVSM, AVSM, VSM, ADC is the Director General of Signals at Army Headquarters. He is MSc in Defence Studies and MTech in Microwave Electronics from Delhi University. He is actively involved with the strategic & perspective planning Army field of telecommunication and

electronics for nearly four decades. His responsibility extends over conceptualization and implementation of Army networks, information warfare, information technology (IT), cyber security and spectrum management, to support the evolving strategic and operational requirements of the Army. By virtue of his appointment he is in constant dialogue with the Ministry of Telecom and IT and the Controller of Certification Authority (CCA). He is a member of the Apex Committee (WPCC), which is an inter ministerial committee for formulating spectrum planning and management policies at the national level.

Lt Gen Sehgal is credited with the design and fabrication of a prototype LNA at BEL Ghaziabad during 1989. He has been associated with the technical education both at policy and implementation level for a long time. Lt Gen Sehgal has nurtured the Army Institute of Technology, Pune and established its standing amongst the premier educational institutes in the country during its formative years. As Commandant, Military College of Telecommunication Engineering, he steered the technical education of officers, junior/non commissioned officers and other ranks of the Army. He is a member on the Advisory Board of Amity Institute of Telecom Technology & Management at Noida and is the Chairman of Electronic Development Panel of DRDO. He is on the Board of Directors of BEL, ITI and ECIL and elected member of IETE Council for 2003-06.

CALENDAR OF EVENTS

Subject	Date	Venue	Contact
• 46th ATC on "ICE-2020: Its impact on quality of life"	30 Sept-F Oct 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
• National Workshop on Cryptography 2003	16-18 Oct 2003	Chennai	Shri Sethuraman M, Workshop Convenor AU-KBC Research Centre MIT Campus Anna University, Chromepet, Chennai- 600 044 Tel: (+91) 044 2223 2711/4885 Fax: (+91) 044 2223 1034 URL: www.au-kbc.org e-mail: crypto@au-kbc.org
• 5th International Infrastructure Summit & Expo "TELECOMM India 2003"	4-7 Nov 2003	Mumbai	Jimmy D'Souza, Project Manager, TELECOMM India 2003 Tel: 022 26103824/3921 Mobile: 98200 43398
• 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, 91-80-333 1133 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 Electron Cochin University of Science & Technology, Cochin-682022 e-mail: prspillai@cusat.ac.in : prspillai@doe.cusat.edu Web Site: www.doe.cusat.edu/sympol
• INAE Conference on Nanotechnology (ICON-2003)	22-23 Dec 2003	Chandigarh	Dr M J Zarabi, Chairman, Organizing Committee, ICON-2003, Semiconductor Complex Ltd., Sector 72, SAS Nagar- 160059 Tel: 91 172 256383 Fax: 91 172 256275 e-mail: cmd@scld.co.in Website: http://www.inae.org/icon2003.html
• International Conference on Computers and Devices for Communication (CODEC-04) and Tutorials.	31 Dec 2003 tutorial	Science College Calcutta University	Dr N R Das Secretary/Convenor CODEC-04 E-mail: codec2004@yahoo.com codec04@mrphel.ernet.in Web: www.irpel.org/codec/codec04.html
	1-3 Jan 2004 Conference	Hyatt Regency Kolkata	
• BES EXPO 2004- International Conference & Exhibition on Terrestrial Satellite Broadcasting	4-6 Feb 2004	New Delhi	Shri N M Mehra, Hony Secretary, BES (I) 52 D, Pocket C, Siddhartha Extension, New Delhi- 110 014 Telefax: 91 11 6903534 E-mail: bes@nda.vsnl.net.in Website: www.besindia.com
• World Congress on Natural Disaster Mitigation	19-21 Feb 2004	New Delhi	Shri K N Agrawal, Organizing Secretary General, World Congress on Natural Disaster Mitigation The Institution of Engineers (India), Engineers Bhawan, Bahadurshah Zafar Marg, New Delhi- 110 002 Tel: 91 11 2337 0168, 2337 0548 Fax: 91 11 2337 8851 e-mail: tmcwec@del3.vsnl.net.in

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

Printed and Published by Maj Gen K B Jhaldiyal, AVSM (Retd) for the Institution of Electronics and Telecommunication Engineers 2 Institutional Area, Lodi Road, New Delhi-110 003 (India) at the Cambridge Press, Kashmere Gate, Delhi-110 006.
Managing Editor: Air Cmde (Retd) P D Badoni, VSM

