



# THE INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS

## FROM PRESIDENT'S DESK



I will shortly be completing my tenure of two years as President IETE. In fact, the period has been so hectic and eventful that it feels to have been rather short instead of two long years. A lot has been achieved; of course, you all are the judges. But I know for one, the experience has been rather exhilarating. My emphasis was to focus on students and their problems primarily.

During this period, the highlights of some of the significant events/achievements are: IETE's liberal contribution to PM's relief fund for "Tsunami", a national calamity; organizing of computer training for visually impaired persons of low socio-economic stratum in collaboration with IBM; MOUs with IEEE, IEE(UK), C-DAC(Noida) and ISTE for mutual benefits; new IETE Sub-Centre at Ranchi, new buildings at Guwahati, Nagpur, Mysore, Rajkot, Palakkad and Bhubaneswar; an increase in the enrollment of IETE Student Members thus reversing the declining trend of the previous years, an appreciable increase in the number of new IETE Students' Forums and Organizational Members; recognition of our Diploma Programmes of both the streams, streamlining of our Academics / Examination system rendering it more efficient and student friendly including provision of books and solutions to question papers; introduction of Standard Operating Procedure (SOP) for facilitating and standardizing of IETE Centres's working; creating of Assets Register thus fulfilling the long outstanding Audit requirement; upgradation of Vadodara Sub-Centre to Centre; technical lectures, seminars, workshops, symposia, apex forums on subjects of topical interest organized at IETE Centres; successful first International Conference and Exhibition during 48th Annual Technical Convention of IETE; call on the President of India, Dr A P J Abdul Kalam to apprise him of the various activities of IETE and its future planning, conferment of IETE Fellowship upon the Hon'ble Minister of State for Defence, Shri M M Pallam Raju and satisfactory students' interactive sessions at various IETE Centres.

On the technology front, we are experiencing an explosion of knowledge, information and applications of various technologies. ICT has engineered quality services in communications, e-governance, convergence, broadbanding, telemedicine, healthcare, hospitality sector, and transparency in Govt Depts. In the wake of this revolution, it has also emphasized the urgency and need for top priority for cyber security, the theme for the World Telecommunication Day this year, rechristened as "World Information Society Day". The mode and manners of learning are changing. The need to have the flexibility of learning at one's own leisure has given extra fillip to e-learning systems. The Internet revolution has the potential of providing services anytime, anywhere. Globalization is no more a buzzword. The learning, interaction between teacher and learners, enrollments, examinations, assessments, results, etc. all are being done on web by creating a virtual classroom. The needs of our students' fraternity always commanded a top priority with me. IETE Pune Centre has been successfully conducting Virtual Electronics Laboratory under the leadership of our Distinguished Fellow, Prof S V Kharkar for the benefits of engineering students who cannot attend the practical classes. The Remote Learning Project of IGNOU and EDUSAT programme of Department of Space have expanded and are providing desired services. However, e-learning holds a better chance and a greater promise for accelerating the advancement of education. IETE, realizing the existing scenario in education sector, have taken concrete steps towards e-learning for imparting education to IETE students for their convenience. The activity of portal started by our Project elan at Noida, has been a great success enabling online interaction with the students through e-mail and SMS. IETE also stands committed towards stimulating research & development by encouraging and funding young researchers in this discipline. E-convergence has opened up opportunities not only for education but also for business, commerce and other IT enabled services.

I convey my heartiest thanks to the IETE members and staff in giving me the unconditional support, loyalty and commitment. I also take the opportunity to thank Council and various Committee/Board Members for their unflinching assistance. I will always cherish this experience. I wish IETE all success and glory.

Lt Gen D P Sehgal



## PRESIDENT – ELECT 2006-07



Shri S Narayana has been elected President IETE for 2006-07. He obtained degree in Electronics and Communication Engineering from Osmania University in 1972 and MTech degree in Advanced Electronics with Computers as specialization from JNTU, Hyderabad. He started his career at DRDO, worked in the field of Guided Missile Radar and subsequently moved over to the National Geophysical Research Institute (NGRI), CSIR in the year 1976. For the last thirty years Shri Narayana engaged himself in the design & development of variety of Geophysical Instruments using state-of-the-art technology for the investigation of ground water mineral and engineering studies. Presently, he is Head, Instrumentation Division.

Shri Narayana has developed "Data Storage Magnetometer", which can be used either as a Field instrument or as an unattended Base Station Magnetometer to measure earth's magnetic field. The field parties of NGRI are using it for locating magnetic anomalies of the earth and also for archaeological investigations. Shri Narayana has developed "Portable Multi-probe Borehole Logger" which is useful for the investigation of ground water and minerals. This lightweight logger is designed primarily for shallow boreholes and used for logging resistivity, temperature and natural gamma radiation for which three sensors are provided. The know-how of this instrument has been transferred to M/s IGIS, Hyderabad. Being portable, it can be used in difficult terrains where vehicles cannot reach; therefore it is in good demand. Agencies like State and Central Ground Water Boards and Panchayatraj Departments are using in rural development programs particularly for agricultural purposes. Presently, he is engaged in the design & development of PC Based Multi Electrode Resistivity Meter.

Shri Narayana has contributed a lot in transfer of technology to the Industry and thus enhanced awareness in the application of scientific approaches to common societal problems and facilitated implementation of several major ground water, engineering geology and mineral exploration programs by Government as well as private agencies in the country. In addition, several technocrats have received training, which has created a very important manpower resource in the country and at the same time contributed for ground water resources in complex regions of the country.

Honours & Awards received are:-

- "Best Invention Award" instituted by the Exhibition Society at Hyderabad.
- "Engineer of the Year Award 2000" by Government of AP and the Institution of Engineers.
- "Best Scientist/Engineer in the State for the benefit of Industry, Trade and Agriculture" by Shri N Chandrababu Naidu, Ex- Chief Minister of AP, instituted by the Federation of Andhra Pradesh Chamber of Commerce and Industry (FAPCCI) for his significant contribution in the field of Electronics & Geophysical Instrumentation.
- "IETE Hari Ramji Toshniwal Gold Medal – 2004" by the IETE.

Shri S Narayana has been deputed by UNDP to various countries including USA and Canada to study the scientific developments in the field of Electronics and Geophysical Instrumentation. He served as a member of National Committees, which includes DST Steering Committee for Geo-Scientific, Agri Electronics and Test Measuring Instruments. He is also helping many academic institutions by serving as a member of their Boards. He serves as member of Selection / Assessment Committees of UPSC, DRDO, ISRO and CSIR. Shri Narayana is associated with many professional societies including IETE, IE(I).

Shri Narayana is actively serving IETE for more than three decades. He has been greatly responsible for the significant growth of Hyderabad Centre by serving it in various capacities including Chairman for two terms. The Centre was adjudged as the Best Centre in the country twice during his tenure as a Chairman. He is serving IETE Council for the last ten years, which includes two terms as Chairman of LC&IC and three terms as Vice President. He has contributed a lot for the growth of students and centres.



## NEWS FROM HEADQUARTERS

### Honorary Fellow of IETE



**Shri Sunil Bharati Mittal**, Chairman and Group Managing Director of Bharati Tele-Ventures, has been conferred Honorary Fellowship of

IETE in recognition of his outstanding contributions in the field of telecommunications.

### Distinguished Fellows of IETE:

The Fellowship will be conferred at the inaugural session of 49th ATC of the Institution on Sept 30, 2006 at IETE New Delhi.



**Prof S V Kharkar**, Founder Member, Pune Centre, has been elected as "Distinguished Fellow of IETE" in recognition of his outstanding work in

Teaching and coordinating Industry-Education Interaction. He was elected to the IETE Council three times and was Vice-President, IETE, for three years.



**Dr H S Sharma** is elected as "Distinguished Fellow of IETE" in recognition of his outstanding contributions in the field of Information Technology

and Education Manpower Development. He has served IETE as Council Member, Vice-President and Honorary Treasurer. He was President of IETE from 1998 to 2000.

### Newly Elected Council of IETE (2006-09)



**Lt Gen A K Agarwal**, PVSM (Retd) (F 060216L) BE (Telecom), MTech (Control Systems), IISc (Elec-Design),

Cranfield, UK, MSc (Info-Engg) City University, London; has served IETE for two decades, was Council Member for six years, served as Vice-President and headed various committees. He was instrumental in opening five new IETE Centres and new buildings at six centres. He was Returning officer for Council Elections (2005-08). He has over 40 years of experience in maintenance, design, development, production and QA of electronics and telecom equipments, retired as Director General, (Quality Assurance), Ministry of Defence. Served as Diplomat (First-Secretary) High Commission of India, London and Senior Executive in American IT Industry, was awarded PVSM for distinguished service by President of India.



**Shri Suresh Kumar Aggarwal** (F 015676L) AMIETE, MBA, he was Chairman, IETE Delhi Centre, improved its administration & finances

through transparent management, accounting practices and created surplus of Rs 15 lakhs after clearing all liabilities. Achieved record student admissions, healthy results and job placements. He has 35 years of experience in Industry, working as Director in Ministry of Comm & IT, handling national level IT/e-Gov, e-infrastructure development projects, IT Literacy and PURA. He is a senior member of IEEE, FIETE, Member BES, AIMA.



**Shri V Appakutty** (F 082715L) a post-graduate (Wireless and Electronics), specializing in Cyberlaw and is presently Chief Engineer, AIR &

Doordrashan, Chennai. Author of seven technical books of international repute on Television and Computers, a recipient of "Indira Gandhi Sadhbhavana Award" in 2001, "Rashtriya Gaurav Award" in 2004 and "Glory of India Award"

at London in 2005. He is a Member-Academic Council-Anna University, Chennai; Member-Research Board of Advisors American Biographical Institute, USA; Vice President-Broadcast Engineering Society; was Chairman, IETE Chennai Centre.



**Prof K Babu Rao** (F 062797L) BE, MS (ECE), CEgg (IETE), DRDO Scientist (Retd), is an erudite speaker, scholar, innovator, and an educationist.

He has engineered systems for Electronic Warfare, Radars, SSMA/CDMA Communications, ARCS Computers with Real Time Software for AKASH Missile Complex for Defence. He has received IGMDP Award & Systems Engineer (TQM) Award 2000. As Secy & Chairman, IETE Hyderabad Centre, conducted ATC, CASET and Silver Jubilee programmes. Hyderabad center received Best Centre Award twice and Perpetual Best Centre Award during his chairmanship. He has served IETE council and its various committees. He was the Returning Officer for IETE Council Elections (2004-2007).



**Shri P N Chopra** (F 019807L) DIG, BSF (Retd); Managing Editor-"Bitcom India" and Consultant to some reputed companies, has 40 years

of association with IETE. He has served IETE in various capacities. He is a Fellow of many professional societies. He has 15 years of experience in Corporate Sector; Ex-Director of Telematics India, Mekaster Telecom. He has authored over 200 technical papers on converging technologies, was awarded Police Medals for his meritorious services and many cash awards. He is widely travelled and has visited many countries. As Chairman



TPC, successfully organized IETE Expo-2005 in Delhi.



**Prof Anita Gopal Dandekar (F 026064L)** BE (Hons), MTech, retired Professor from VJTI, has guided PG students, published papers in journals

and conducted IETE Exams at Mumbai Centre for 25 years. She has served IETE as Council Member, Vice President and Chairperson of various committees. She is an Honoree of American Biographical Institute for Significant Career Achievements & Contribution to Society. She has been awarded 20th century award for her achievements from International Biographical Centre, England.



**Dr M L Goyal (F 043561L)** BE (Honours), ME(E) BITS Gold Medalist; MASc(CS) Toronto, PhD(CS), he is presently GM, CMC Delhi.

He has worked as Faculty, BITS; Director, SIL, Mauritius; Advisor, Mauritius Govt; served CSI in various capacities; Indian Rep, SEARCC; Chairman, DCSC and Council Trustee, IFIP; President, CS Section, Indian Science Congress; Member, DOEACC Governing Council; Committee Member, MICT, AICTE, CII, IGNOU and Planning Commission; Returning Officer IETE Delhi Centre. He is a Fellow member of CSI, IETE, IE (I). He has 64 publications to his credit; has visited 6 continents and has received CMC's Outstanding Recognition Award, IE(I)'s Scroll of Honour, IIFS' Vijay Rattan Award.



**Prof C Murali (F 090040L)** BE (ELO), ME (ELO) from Bangalore University and BITS, Pilani. Teaching since 1975 at MSRIT,

Bangalore, Prof & HOD, E&C Dept

for more than a decade. Specializes in Computer Networks and Mobile Communication and has authored a book on Computer Networks. He has conducted seminars, workshops at various levels. Has served IETE, Bangalore as EC Member, Hony Secretary & Chairman. Actively engaged in the activities of IETE at Bangalore and HQ. Fellow of IETE and Member of ISTE. Has given consultancy to various, small-scale industries/organizations in developing teaching aids, trainers and network simulators; is a resource person for IISc continuing education program, seminars, workshops and short-term courses. Listed in the panel of expert for UPSC, NBA, AICTE. Trustee of Traffic Engineers and Safety Trainers at Bangalore.

#### ● Ex-Officio Members of IETE Council



**Prof T K De (F 113669L)** Chairman, IETE Kolkata Centre, an Engineer, Scientist & Researcher is a BE from Jadavpur University, MTech and

PhD from IIT, Kharagpur and Post-Doctoral from University of Erlangen, Germany. He joined Bhabha Atomic Research Centre as a Scientific Officer in 1970 and is presently Scientific Officer (H) and Head, Power Supply & Instrumentation Division of VECC, DAE, Kolkata. His numerous outstanding research contributions have been accepted as well-recognized pioneering work, nationally and internationally. He has been conferred upon various prestigious honours and awards. He is well known for his professional activities and has conducted various national and international conferences. He has made significant contributions to the society in general and has served for the promotion of work culture in organizations he has been associated with.



**Shri A Ganes (F 110323L)** Chairman, IETE Chennai Centre, gold medallist in MA from Madras University, presently working as DO

(TAX) Southern Telecom Region BSNL; looking after national long distance operations and international long distance operations. He has worked on exchanges in Tamil Nadu Telecom Circle and Chennai Telephones. He is specialized in Digital Switching, ISDN and other new services like Intelligent Network. He has written and published three books on Telecom, "Value Added Services in Telecom", "Telecom Networks and Services in the New Millennium" and "Telecom Network and Mobile Networks and New Services". He was Executive Committee Member of IETE Chennai Centre for more than 2 terms and Hony Secretary during 2005-2006. He is a fellow member of IETE Institution of Engineers (India).



**Shri Giridhar R Joshi (F 040076L)** Chairman, IETE Bangalore Centre, AMIETE and MTech from KREC/NITK Suratkal. He worked as a scientist at

ISRO Satellite Centre for 16 years. Since 1999 he is with Aeronautical Development Agency (ADA) as Dy Project Director (WSI) for LCA Programme. At IETE, he was an Executive Committee member and also Hony Secretary. During his tenure many national and international seminars/workshops, ATO MTS were conducted successfully. He was responsible for various technical activities at Bangalore Centre, viz. Continuing Educational Programme for professionals, SUSIE for school children and ISF activities. Because of his initiatives & persuasion, the center bagged prestigious "Best Centre Award" for 3 years. He has presented many technical papers at national level seminars.





**Prof S K Kshirsagar**  
(F 051650L) Chairman,  
IETE Pune Center,  
obtained MSc in Wireless  
and Electronics from  
University of Pune. He

worked in MES College of Pune and  
Jyotiraj Wadia College, Pune, where  
he became Head of the Physics Dept  
and was instrumental in establishing  
Postgraduate Dept in Physics in 1992.  
During this period he organized seminars  
in Physics and conducted workshops.  
He was the member of BOS in Physics  
for 9 years & also a member of faculty  
of Science, University of Pune. He has  
written more than 50 books in Physics  
and Electronics. Some of his books have  
been approved as text books by  
University of Pune & Higher Secondary  
Board of Education, Maharashtra. He is  
recipient of Dr Radhakrishnan Award,  
the best teacher award by PMC in 1998.  
He was felicitated by Pune Municipal  
Corporation for proficiency in the  
field of education in 1992. He has  
worked as Hony Secretary of IETE  
Pune Centre.



**Shri D S Pathania**  
(F 057956L) Chairman,  
IETE Chandigarh Centre,  
is a graduate from the  
Institution of Electronics  
and Radio Engineer,

London, specializing in Electronics  
Measurements and has been Chartered  
Engineer from the Council of Engineering  
Institutions, UK. He has 30 years of  
professional experience in research,  
design and development in Electronics  
Instrumentation and allied fields at CSIO,  
Chandigarh. He was Head of Agri-  
electronic Instruments Division at CSIO  
has patented and commercialized  
various technologies sponsored by DST  
DOE, Govt of India in the field of  
Electronic Instrumentation. He was  
awarded 2nd prize for the best R&D  
product "Field pH Meter for Farmers"  
1st prize for the "Development of

Digital Soil Salinity Tester with Sensor"  
at Wixitex 90 & 92 respectively. He has  
presented and published about 50  
technical papers in various symposia and  
journals in India & abroad.



**Dr T S Rathore**  
(F 049768L) Chairman,  
Mumbai Centre, has joined  
as Dean R&D and Head,  
Electronics & Commn  
Deptt, St Francis Institute

of Technology, Borivile (W), Mumbai  
after his retirement from IIT, Mumbai  
as Professor. He obtained ME, PhD in  
Electrical Engineering from Indore  
University. He served GS Institute of  
Technology and Science, Indore from  
1965-76. He has published and  
presented 182 research papers in  
International journals/ conferences, is  
recipient of several awards/ honours  
including IETE, authored "Digital  
Measurement Techniques", is a regular  
reviewer for several research journals.  
He is a senior member of many  
prestigious professional organizations.  
He was also instrumental in materializing  
various IETE special issues. He has  
served IETE Mumbai center in various  
capacities since 1997.



**Dr A K Saini (F 101917L)**  
Chairman, Delhi Centre, is  
a MSc, MPhil (Physics),  
MCA and MBA. He  
obtained his doctoral  
degree from FMS Delhi

University. Currently he is working as  
Associate Professor in Information  
Technology, GGS Indraprastha  
University, Delhi. He carries with him  
blend of industrial and academic  
experience of more than 22 years out of  
which about 6 years in the industry in  
responsible capacities. He has to his  
credit 5 published books and over a dozen  
papers in journals/ conferences. He is  
associated with number of academic and  
professional associations. He is a senior  
member of CSI, IETE, AIMA and

Operational Research Society of India.  
Served as Hony Secretary of IETE Delhi  
Centre.



**Dr R P Singh**  
(F 049351L) Chairman,  
IETE Bhopal Centre, is  
HOD, Information  
Technology at Maulana  
Azad National Institute of

Technology, Bhopal. He is a graduate  
and post graduate in Electronics  
Engineering from Institute of  
Technology, BHU, Varanasi. He obtained  
his PhD from Bhopal University in 1991.  
He has published / presented about 65  
national/international papers. He has also  
authored two books in the area of  
Communication Engineering. He is a  
counsellor of IEEE students' chapter at  
MANIT, Bhopal. He has been member  
of Executive Committee of Institution  
of Engineers (I), MP Circle. He is a  
member of Board of Studies and  
Research Degree Committee of many  
universities. He has worked as Secretary  
and Chairman IETE, Bhopal Centre and  
has been actively involved in the activities  
of the center from its inception. He  
played a key role in its upgradation to  
local center.



**Shri B P Srivastava**  
(F 019030L) Chairman,  
Noida Centre, BE (Hons)  
in Telecommunication  
Engg is presently working  
as Technical Advisor to

Broadcast Engineering Consultants India  
Ltd. After a brief spell in academics he  
joined AIR where he worked as a  
member of Indian Broadcast (Engineers)  
Service. He specializes in transmission  
and propagation of radio waves. He  
was decorated with Akashwani Annual  
Award for his work. He was also a  
member of CCIR's Interim Working  
Party, IWP-5, set up by ITU to study  
various aspects of tropospheric  
propagation. He was deputed as an  
expert to Papua New Guinea on behalf



of Govt of India and ABU to advise them in planning and maintenance of their transmission facilities. After retiring from AIR, he worked as Panel Expert with UNDP/AIBD- an international organization working under the aegis of ITU and looking after the development of Broadcasting in Asia and Pacific region. He has travelled widely and published number of technical papers in various journals of repute.



**Shri R Venkataraman** (F 026061L) Chairman, Hyderabad Centre, is also the Mg Trustee and CEO of Precision Electronic Components Mfg Co, Chairman of Electronic Enamels & Glasses Pvt Ltd, PEC Automation Products & Software Services (P) Ltd and Mg Director of PEC Potentiometers Ltd. Before setting up his own venture in partnership with his wife, he worked with Bhabha Atomic Research Centre, Asian Electronics Ltd and Tata Electric's Co. Their Precision Electronic Components Mfg Co known as PEC, is widely reputed in India for its high quality PEC Brand resistors. Tested and approved components are supplied to Defence, Instruments and Power Electronics Industries and are exported to Europe, USA and UK. With his years of experience in Industry, he is deeply respected for his ideas and commitment to the growth of the Indian Electronics Industry wherever he worked.

#### IETE AWARDS (2005-06)

The following are the awardees for various IETE Awards for the year 2005-06:

##### Main Awards

These awards are conferred during the inaugural session of the Annual Technical Convention.

**29<sup>th</sup> IETE-Ram Lal Wadhwa Gold Medal** for outstanding contribution in the field of electronics and telecommunication engi-

neering for original contribution during the last ten years.

Awardee: Prof M Jagadesh Kumar, IIT Delhi

**17<sup>th</sup> IETE-Hari Ramji Toshniwal Gold Medal** for outstanding innovative ideas having practical applications in industry leading to development and production of electronic instruments and related systems. Awardee: Dr Parameswar Banerjee, NPL, New Delhi

**21<sup>st</sup> IETE-Bimal Bose Award** for outstanding contribution in the field of power electronics.

Awardee: Prof Chandan Chakraborty, IIT, Kharagpur

**19<sup>th</sup> IETE-Lal C Verman Award** for outstanding contribution in the areas of standardization, quality control and precision measurements, during the last ten years.

Awardee: Shri T S Nanjundaswamy, ISRO Satellite Centre, Bangalore

**12<sup>th</sup> IETE-Flt Lt Tanmaya Singh Dandass Memorial Award** for outstanding contribution in the field of Avionics, covering education, research, design, development and production during the last ten years.

No nominee is found suitable for award in this year.

**13<sup>th</sup> IETE-Prof K Sreenivasan Memorial Award** for outstanding performance in teaching electronics and telecommunication engineering during the last five years.

Awardee: Prof Abhay Karandikar, IIT, Bombay

**10<sup>th</sup> IETE-Prof SVC Aiya Memorial Award** for providing guidance in electronics and telecommunication research work during the last five years.

Awardee: Prof Merchant Shabbir N, IIT, Bombay

**11<sup>th</sup> IETE-Prof S N Mitra Memorial Award** for outstanding contribution and leadership role in radio broadcast science and technology during the last ten years. Awardee: Shri N S Ganesan, Doordarshan, New Delhi

**6<sup>th</sup> IETE - CEOT (94) Award** (Biennial) for outstanding contribution in the field of optoelectronics covering materials, devices,

circuits, technologies, systems applications.

Awardee: Dr Ravindra Kumar Sinha, Delhi College of Engineering, Delhi

**9<sup>th</sup> IETE-BV Baliga Memorial Award** for outstanding contribution in the field of Electronics and Telecommunication with emphasis on R & D and industry development during the last ten years. Awardees: Shri S C Agarwal & Shri G B Rao, CEL, Sahibabad (Team award)

**5<sup>th</sup> IETE-N V Gadadhar Memorial Award** for original contribution of excellence in the field of Electronics and Telecommunication Engineering with emphasis on Mobile Radio Communication.

Awardee: Mrs Upena Dalal, SV NIT, Solapur

**4<sup>th</sup> IETE-B R Batra Memorial Award** for Fellow of IETE with a standing of ten years or more, who has significantly contributed to the overall growth and honour of the Institution or has rendered selfless service to the cause of the Institution over the years for furtherance of its basic aims and objectives.

Awardee: Prof K T V Reddy, FR, Rodrigues, Inst of Technology, Noida Mumbai

**1<sup>st</sup> IETE-R S Khandpur Memorial Award** for life-time achievements and outstanding contribution at national/international level in the field of 'Medical Instrumentation' covering education, research, design, development and production.

Awardee: Prof Vinod Kumar, IIT, Roorkee

**1<sup>st</sup> IETE-Brig M L Anand Award** 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 five years.

Awardee: Shri Vijendrakumar Narendraprasad Shukla, C-DAC, Noida

##### Corporate Awards

**8<sup>th</sup> IETE-Corporate Award for Performance Excellence in Electronics Components-2006** in engineering manufacturing, exports, R&D efforts and their commercial deployment, optimum utilization of appropriate technologies and management practices or other initiatives



that have resulted in accelerated growth in the country in the field of "Electronic Components" for the last three years.

Awardee: M/s Bharat Electronics Ltd, Bangalore

**7<sup>th</sup> IETE-Corporate Award for Performance Excellence in Computer and Telecommunication Systems-2006** in engineering, manufacturing, exports, R&D efforts and their commercial deployment, optimum utilization of appropriate technologies and management practices or other initiatives that have resulted in accelerated growth in the country in the field of "Computer and Telecommunication Systems" for the last three years.

Awardee: M/s Tejas Networks India Ltd, Bangalore

**8<sup>th</sup> IETE-Corporate Award for Performance Excellence in Development of Software-2006** in recognition of outstanding performance and growth rates achieved by an organization / industry / association / institution in the field of "development of software" in the country during the last three years through excellence in writing software solutions for engineering problems, optimum utilization of resources, sound management practices and other initiatives.

Awardee: M/s Jataayu Software (P) Ltd, Bangalore

**9<sup>th</sup> IETE-Corporate Award for Performance Excellence in Electronic Instruments and Instrumentation-2006** in engineering, manufacturing, exports, R&D efforts and their commercial deployment, optimum utilization of appropriate technologies and management practices or other initiatives that have resulted in accelerated growth in the country in the field of "Electronic Instruments and Instrumentation" for the last three years.

Awardee: National Aerospace Laboratories, Bangalore

#### **IETE-IRSI (83) Awards**

**IETE-IRSI (83) Award** for outstanding contribution in the field of Radar/ Science & Technologies / Microwave systems / Navigation / Remote Sensing / Upper Atmospheric Studies / Troposphere / Weather Studies using microwave techniques / Materials Research / Electronic Warfare Techniques / Global Positioning Systems.

Awardee: Shri V Sambasiva Rao, ISRO Satellite Centre, Bangalore

**IETE-IRSI (83) Young Scientist Award** for outstanding project work in the area of Radar/ Science & Technologies / Microwave systems / Navigation / Remote Sensing / Upper Atmospheric Studies / Troposphere / Weather Studies using microwave techniques / Materials Research / Electronic Warfare Techniques / Global Positioning Systems.

Awardee: Smt Shubha Elizabeth Avirah, LRDE, Bangalore.

#### **IETE Best Paper Awards**

Awards for articles published in IETE journals during the year 2004 were given to :

**S K Mitra Memorial Award for the best research oriented paper** to S Radha and S Shanmugavel for their paper, "Multicasting in Ad hoc Networks using Node Transition Probability based Routing Protocol" published in IETE Journal of Research, Vol 50, No 3, May-Jun 2004, pp 199-210.

**J C Bose Memorial Award for the best engineering oriented paper** to Andrew Thangaraj for his paper, "Rate Compatible LDPC Codes for Wireless Applications", published in IETE Technical Review, Vol 21, No 5, Sept- Oct 2004, pp 325-334.

**M N Saha Memorial Award for the best application oriented paper** to Chaturi Singh, Joseph John, Y N Singh and K K Tripathi for their paper "Indoor Optical Wireless Systems: Design Challenges, Mitigating Techniques and future Prospects", published in IETE Technical Review, Vol 21, No 2, Mar-Apr 2004, pp 101-118.

**K S Krishnan Memorial Award for the best system oriented paper** to Parvathanathan Subrahmanya, Rajesh Sundaresan and Da-shan Shiu for their paper, "An Overview of High-Speed packet Data Transport in CDMA Systems" published in IETE Technical Review, Vol 21, No 5, Sept- Oct 2004, pp 305-316.

**CDIL Award for Industry for the best paper contributed by authors working in industry** to M A Shamshi for his paper, "Technologies Convergence in Recent Instrumentation for Natural Disaster Monitoring and Mitigation" published in

IETE Technical Review, Vol 21, No 4, Jul-Aug 2004, pp 277-290.

**Gowri Memorial Award for the best paper on topic of general interest** to Lara Srivastava for her paper, "Mobility Unplugged: Technologies, Policy Challenges and Market Opportunities" published in IETE Technical Review, Vol 21, No 6, Nov-Dec 2004, pp 417-422.

**Students' Journal Awards for the two best papers from IETE Journal of Education.**

- (1) Amar Partap Singh for his paper, "Versatile Virtual Transducer Response Curve Tracer based on Data-acquisition Card" published in IETE Journal of Education, Vol 45, No 1, Jan-Mar 2004, pp 3-8.
- (2) G Gabrani and Abhishek Khare for their paper, "An Algorithm for Task Scheduling in Heterogeneous Computing Environment" published in IETE Journal of Education, Vol 45, No 3, Jul- Sep 2004, pp 123-134.

#### **IETE Academic Awards**

The following IETE students have won prizes for academic excellence in the examination held in June 2005 and Dec 2005:

#### **AMIETE**

**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.

#### **June 2005**

Computer Science Stream	Garima Mittal, (SG-148980)
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#### **Dec 2005**

Electronics & Telecom Stream	Avinash Kumar, (SG-149401)
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**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.

#### **June 2005**

Computer Science Stream	Giriraj Chauhan, (SG-142110)
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#### **Dec 2005**

Electronics & Telecom Stream	Avinash Kumar, (SG-149401)
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Computer Science Stream Saurabh K Sinha, (SG-149310)

Information Technology (IT) Stream Manish Kumar, (SG-149043)

#### DIPIETE

**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.

**Dec 2005**

Electronics & Telecom Stream Kantaria Chintankumar, (SD-178252)

**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.

**Dec 2005**

Electronics & Telecom Stream Mahesh Kumar, (SD-177147)

**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 any exemptions.

**June 2005**

Electronics & Telecom Stream Vinchhi Amit Kumar, (SD-162927)

**Dec 2005**

Electronics & Telecom Stream Vivek A Phadke, (SD-162821)

**DIPIETE Council Prize-IV** for securing the highest percentage with 60% and above marks and completing Part-II of Section B in one attempt without any exemptions

**June 2005**

Computer Science Stream Jyotirmayee Sahoo, (SD-148733)

**Dec 2005**

Computer Science Stream Jasani Karan, (SD-161229)

#### 14<sup>th</sup> IETE-National

##### Technical Paper Contest 2006

The three papers short listed for oral presentation during the ATC to be held on 29th September 2006 are: (i) ALTUS-Advanced License Plate and Tracking Using Satellites by Anurag Nikhare and Abhishek Arora (ii) Applications of Laplace

Transform by Abhishek Bansal and (iii) Nanotechnology by Deepti Sharma.

#### NEWS FROM LOCAL CENTRES

##### Amravati

A two-day seminar on "ICE: Information, Communication and Education" was organized by the IETE Amravati sub-centre on 5th-6th August 2006. The programme was inaugurated by Hon'ble Dr (Ms) Kamal Singh, Vice-Chancellor, S G B Amravati University, Amravati. The seminar was spread over three technical sessions each focussing on information, communication and education. The keynote speaker for the first session was Dr O G Kakade, VNIT, Nagpur; 2nd Session was chaired by Dr Bharat Chaudhary of IIIT, Pune and Dr M S Ali, from PRMIT&R, Badnera, chaired the third session. The seminar concluded with a very interactive session.

##### Coimbatore

The sub-centre organized following activities:-

**April 5, 2006:** Sponsored "Magnum Opus" a student symposium consisting of events like Algorithm Development, Software Coding, Logical Reasoning and Su Doku.

**May 20-30, 2006:** Workshop by Dr T R Padmanabhan, the then Chairman of the sub-centre on "PIC Microcontrollers."

**Aug 2, 2006:** One-day workshop on "VLSI CAD Tools" by Prof Jose Schutt-Aine, Professor in Electronics, University of Illinois, Urbana Champaign.

**Aug 12, 2006:** Seminar on "Trends in Wireless Network Security" by Dr Ramalingam Sridhar, Professor in Computer Science Department at State University of New York, Buffalo, USA.

##### Dharwad

**Mar 3, 2006:** The sub-centre organized a paper presentation contest "DRUSHTI-06" on the topics of computer,

communications, signal processing, biometrics and intelligent systems. Out of a total of 21 papers, 12 papers were selected for the contest. There were about 80 contestants. The judges were Prof Savitri Raju and Prof Siddalingappa S Navalgund from E & C Dept, SDMCET, Dharwad.

**Mar 10, 2006:** A project Exhibition Contest, open to all students of IT related branches of Engg colleges, was conducted. The Hardware (11 nos.) and Software (8 nos.) projects were exhibited. Judges were Prof J V Vadar and Prof Rekha V Dundur from different departments of SDMCET, Dharwad.

##### Lucknow

• 38<sup>th</sup> World Telecommunication Day was celebrated jointly by the IETE Lucknow Center, IE (I) State Centre and CSI, Lucknow Centre on May 17, 2006. Brig Dharm Vir (Retd), the then Chairman, IETE Lucknow center welcomed the keynote speaker, Shri Shhabir Ahmad, Ex-Dir, BSNL Board, New Delhi, the Guest of Honour, Prof Bhaskar Bhaskar, IIM, Lucknow, the Chief Guest, Shri Jayant Krishna, Regional Manager, Tata Consultancy Services and other participating members. Prof Bhaskar spoke about cyber crime highlighting some defined steps while using cyber communication. Shri Jayant presented statistics from US and other developed world on cybercrime. The function was attended by Corporate Members of IETE, IE(I), CSI, Lucknow Chapter, Telecom and Computer Engineers of BSNL, Defence, AIR and Engg College, etc. Shri V K Singh, Vice-Chairman, CSI proposed vote of thanks.

• M/s Global Events & Expositions, New Delhi organized the 45th India International Educational Fair at Lucknow on July 18-19, 2006, in



which IETE also participated. IETE stall was inaugurated by Shri Shabbir Ahmad, Ex-Director, BSNL Board, New Delhi. Shri S P Kalsi, Ex-CGM UP(E) Telecom Circle, BSNL was present on the occasion. Key members of the Executive Committee and Education Committee of Lucknow Centre were present during the exhibition hours to apprise the visitors about IETE.

#### Nashik

The World Telcom day was celebrated jointly by the IETE Nashik sub-centre and IEI Nashik Local Centre on May 17, 2006. The Inaugural lamp was lighted by the then Chairman of the center, Shri A V Kulkarni; Chairman IEI, Shri Satish Parakh and the key speaker Shri Mangesh Pisolkar, CEO-MEC Netcom Pvt Ltd. The key speaker highlighted the challenges and the importance of the theme lecture, global cyber security. He talked about Digital Signatures.

#### Palakkad

Shri N N Krishnadas, Hon'ble Member of Parliament inaugurated the new office of IETE Palakkad sub-centre on July 29, 2006. Shri C K Haridas, Chairman Palakkad sub-centre presided over the function. Dr Prahalad Vedakkeppat, Asst Professor, National University of Singapore gave lecture on "Introduction to Robotics".

#### Pune

Activities conducted by the IETE Pune Centre :-

- (a) **Mar 11, 2006:** Lecture by Shri R V Datar, Ex CGM, BSNL on "Access Technologies- An Amazing Telecom Revolution".
- (b) **Apr 3, 2006:** Lecture by Dr S G Rathod of Pune University on "Optical Integrated Waveguide Sensors".
- (c) **Apr 12, 2006:** "Project Competition" for final year BE students was held and prizes were distributed by Prof V K Kokate.
- (d) **Jun 10, 2006:** Lecture on "Banking Automation" by Shri U V Save, GM (R&D) Aplab, Thane.
- (e) **July 2, 2006:** A students' meet was held at the Pune center in the presence of Shri R V Datar, Shri M G Kulkarni, Prof S K Kshirsagar and Prof S V Kharkar.
- (f) **July 29, 2006:** A talk on "Digital Signature" by Prof Sneha Thombre from Cummins College of Engg for Women.

#### ISF ACTIVITIES

- **ISF, Sou Venutai Chavan Polytechnic, Pune** arranged a workshop on "PLC Programming" on Mar 13, 2006. It also arranged

a faculty-training programme on "Mechatronics" from June 12 to June 16, 2006. About 40 staff members of Mechanical/ Electrical/ Electronics Dept of Engg Colleges & Polytechnics attended the programme. Five-day FTP sessions were conducted by experts from various industries and institutes like Hydromech Engineers, PARI industries, Prabodhnirman, Excellence CNC Pvt Ltd, DIAT, ARAI College of Engg, Pune.

- **Departments of E&CE and TE JNNCE, Shimoga,** organized a National Conference on "Signal Processing and Communication" (NCSPC-2006) on 7-8 July 2006 in association with Professional Activities Centre, IETE at Shimoga. The tutorial sessions were grouped in 6 topics namely: Signal Processing, Image Processing, Pattern Recognition, Wireless Communication, Ad hoc Networks and Information Network Security.
- **ISF, Kamaraj College of Engineering and Technology, Virudhunagar** conducted a two-day workshop on "MATLAB" on July 15-16, 2006. The Chief Guest Shri J Oliver talked on the basics of MATLAB, user-defined function, plotting and graphical user interface.

#### CALENDAR OF EVENTS

Subject	Date	Venue	Contact
13 <sup>th</sup> National Conference on Broadband Communication Systems (NCBCS 2006)	2-3 Sept 2006	Pune	Prof A S Tavildar Convener, NCBCS 2006, Prof & Head, Dept of E & TC Engineering, Vishwakarma Institute of Info Technology, Pune-411 048 Ph : 020-2693 2600 Fax : 020-2693 2500 E-mail : ncbs2006@viit.ac.in Website : www.viit.ac.in
49 <sup>th</sup> ATC of IETE on 'Convergence -Transformation from Vision to Reality'	30 Sept - 01 Oct 2006	New Delhi	Maj Gen C M Logani, VSM (Retd) 2 Institutional Area, Lodi Road, New Delhi-110 003 Ph : 41504751, 43560124, 24631810/30/40/50 Fax : 24649429 E-mail: membership@iete.org; ietend@iasdi01.vsnl.net.in Web : http://www.iete.org, www.iete.info & www.iete-clan.ac.in



13 <sup>th</sup> National Symposium on Vacuum Electronic Devices and Applications (VEDA 2006)	11-13 Oct 2006	Pilani	Shri R K Gupta Convener, VEDA-2006, Central Electronics Engineering Research Institute, Pilani-333 031 Ph : 01596 252226; 01596 242392; 9414527617 Fax : 01596 242294 or 01596 242393 E-mail : rkg@ceeri.ernet.in; rkg5492004@yahoo.co.in Website : www.ceeri.res.in & www.vedas.org.in
13 <sup>th</sup> National Conference on Recent Advancements in Microwave Techniques and Applications (Microwave-2006)	6-8 Oct 2006	Jaipur	Dr Deepak Bhatnagar Convener, MICROWAVE-2006, Room No. 15, Vigyan Bhawan, Dept of Physics, Univ of Rajasthan, Jaipur-302004 Ph : 0141-2784707 (R) 0141-2708017 (O) 9828088000 E-mail : microwave06@rediffmail.com microwave@uniraj.ernet.in
13 <sup>th</sup> India International Engineering Expo 2006	2-5 Nov 2006	Mumbai	Mr Harry Singh Event Coordinator, ET IEEE 2006 DESK India International Engineering Expo 2006 Secretariat 530, Laxmi Plaza, Laxmi Industrial Estate, 5 <sup>th</sup> Floor New Link Road, Andheri (W), Mumbai- 400 053 Ph: +91 22 2630 2640/ +91 22 26302734 Fax: +91 22 2636 7676 E-mail: info@timesiex.com; Web: www.timesiex.com
13 <sup>th</sup> International Conference on Next Generation Communication Systems (ICONGENCOM-2006)	9-11 Dec 2006	Allahabad	Prof Nar Singh Convener, ICONGENCOM-2006

## 49th Annual Technical Convention on "Convergence – Transformation from Vision to Reality"

30 Sept -01 Oct 2006

Venue : Delton Hall, IETE, New Delhi-110 003

### PROGRAMME

<b>Saturday, September 30, 2006</b>		
0830-0930 hrs	Registration	1130-1200 hrs High Tea
0930-1130 hrs	Inaugural Session	1200-1400 hrs Technical Session-I "Technologies for Convergence"
	Arrival of the Chief Guest	1400-1430 hrs Lunch
	Invocation	1430-1630 hrs Technical Session-II "Multimedia Broadcasting"
	Lighting of the Ceremonial Lamp	
	Welcome Address and Overview	1630-1700 hrs Tea
	49th ATC	1900 hrs Cultural Programme and Delegates Dinner
	President's Address	
	Conferment of Distinguished Fellowship	<b>Sunday, October 01, 2006</b>
	Conferment of Honorary Fellowship	0900-1000 hrs 29th Ramlal Wadhwa Award Lecture
	Announcement of President 2006-07	1000-1030 hrs Tea
	Installation of the President 2006-07	1030-1230 hrs Technical Session-III "Next Generation Networks"
	Address by the New President	
	Inaugural Address by the Chief Guest	1230-1330 hrs Lunch
	Release of Souvenir and Special issue of IETE Technical Review	1330-1530 hrs Technical Session-IV "Regulatory Aspects for Convergence"
	Introduction to Bhabha Memorial Lecture	
	<b>38th Bhabha Memorial Lecture</b>	1530-1600 hrs Best Paper Award Ceremony
	Awards Ceremony	1600-1630 hrs Tea
	Presentation of Mementoes	1630 hrs Panel Discussion & Vote of Thanks
	Vote of Thanks.	

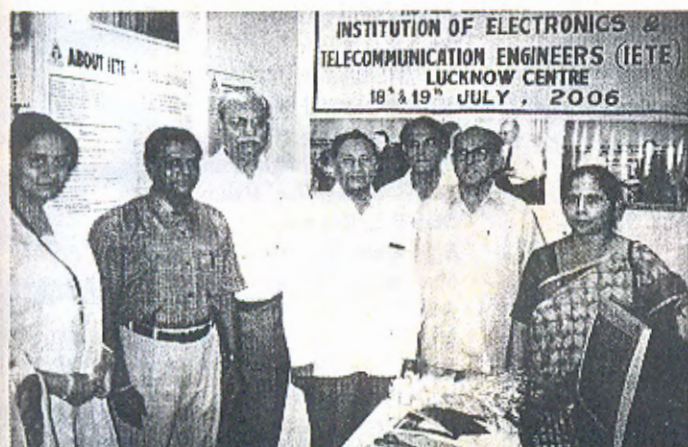




Workshop on "PIC Microcontrollers" at IETE Coimbatore sub-centre, 20-30 May 2006.



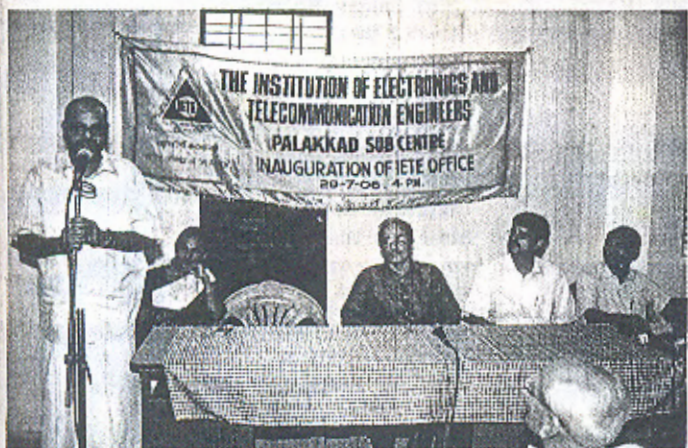
Prof Jose Schutt-Aine, Professor in Electronics, University of Illinois, Urbana Champaign conducting workshop on "VLSI CAD Tools" at IETE Coimbatore sub-centre.



45th India International Educational Fair at IETE Lucknow Centre.



1st World Information Society Day celebrations at IETE Nashik Centre. Seen L-to-R: Shri Satish Parakh, Shri Mangesh Pisolkar, Shri A V Kulkarni and Shri T N Agarwal



Inauguration of IETE Office at Palakkad sub-centre.



Prof (Mrs) Sneha Thombre, Cummins College of Engg for Women, Pune, being felicitated by Prof S K Kshirsagar, Chairman, 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.

Printed and Published by Maj Gen C M Logani, VSM (Retd) for the Institution of Electronics and Telecommunication Engineers, 2, Institutional Area, Lodi Road, New Delhi-110 003 (India) at the Manish Comprint, F-117, Sudershan Park, New Delhi-110 015.

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(Cost of Production : Rs 4.00)



## Office Bearers of IETE Local/Sub-Centres for the year 2006-08

Centre	Chairman	Hony Secretary	Hony Treasurer
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Coimbatore	Prof K Gangadharan	Shri Prashant R Nair	Dr M Jayakumar
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