



सह वीर्यं करवावहै

# THE INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS

# IETE NEWSLETTER

Vol 7 No. 1 January-February 2005

## FROM PRESIDENT'S DESK



While conveying my good wishes and appreciation for the good work done in arranging international, national and local seminars by IETE Centres, my heart goes to the people who were affected by the 26 Dec, 2004 Tsunami. It was the worst kind of earthquake measuring 9.0 on the richter scale that occurred underwater in the Indian Ocean off the coast of Sumatra Island of Indonesia. The earthquake resulted in Tsunami, which caused huge loss of life and extensive damage to property in Indonesia, Malaysia, Thailand, Myanmar, Bangladesh, India, Srilanka and Maldives. Estimates are that more than 150,000 people died and 5 million were rendered homeless who need support for rehabilitation.

Our country is among USA, Japan and Australia, who have a cooperative arrangement to coordinate the channelization of humanitarian aid activities in spite of its own massive rehabilitation task in Tsunami affected states of Andhra Pradesh, Orissa, Tamil Nadu and Kerala. It is to the credit of the Indian people and the Govt of India that all necessary initiatives have been taken to undertake reconstruction of infrastructure along with immediate measures to provide food, medicine, drinking water and shelter to the affected people.

In recent times our country has been hit by three major disasters – cyclone in Orissa, earthquakes in Maharashtra and Gujarat apart from landslides and floods in many states, which are common. The experience is that natural calamities like earthquakes, flash floods, draughts, storms, cyclones, landslides, wildfire etc are difficult to predict. What can be done is to take effective mitigation and alleviation measures to reduce loss of life and property in the event of a hazard striking. Engineering in general and communication engineering in particular have a major role to play firstly in developing detection systems for prediction of natural disasters, secondly develop failsafe communications & infrastructure in the disaster vulnerable areas and lastly in having a disaster management organization, which will disseminate well in advance the information on impending as well as already occurred calamities to the people in vulnerable areas, activate relief measures to minimize damage and reduce the delays in rehabilitation process.

IETE has a large fraternity of knowledgeable engineers, who have experience of working in R&D, manufacturing, operations and management of technical establishments. Notwithstanding, the work being undertaken by the Govt for disaster detection and mitigation, we in IETE can also think of knowledge – generation for evolution of a futuristic engineering initiative for building a reliable and cost effective technology for disaster detection, dissemination and alleviation. Your suggestions in this regard may be e-mailed to us on [ietend@bol.net.in](mailto:ietend@bol.net.in)

Lt Gen D P Sehgal



President IETE presenting a cheque to  
Minister of Communication & IT for PM's Relief Fund



MoU being exchanged between Lt Gen D P Sehgal, President,  
IETE and Mr W Cleon Anderson, President IEEE at New Delhi



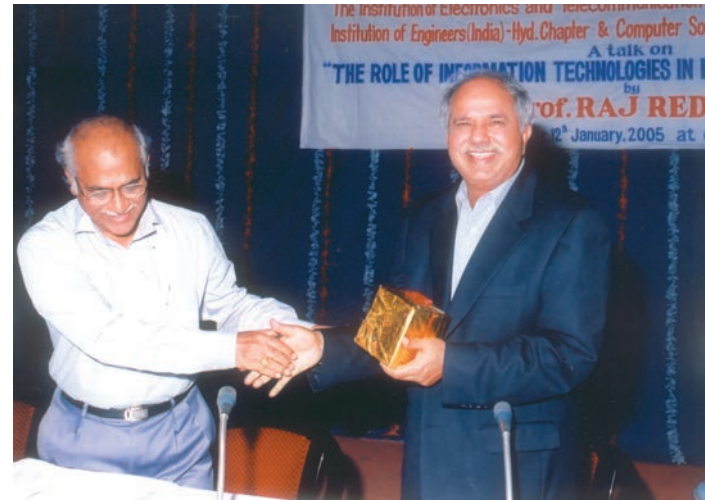
Lt Gen D P Sehgal, President IETE and Prof John O'Reilly,  
President IEE (UK) exchanging the agreement for cooperation



A view of the dais during national seminar held at Allahabad  
on "Internet: New Horizons"



Shri S K Aggarwal, Chairman Delhi Centre welcoming the President IETE  
during one day seminar on "Emerging Trends in Wireless Technologies"



Lecture by Prof Raj Reddy on the role of IT  
in Emerging economies at Hyderabad Centre.  
Shri C Govardhan presented Memento to Prof Raj Reddy

## NEWS FROM HEADQUARTERS

**IETE in the service of the Nation**

Another calamity in the name of killer wave Tsunami has left a trail of disaster, which may take some years to repair and normalize. This was yet another misery, which called for urgent help more than ever before. The IETE showed its concern by donating Rs 2 lakhs from the Institution funds and Rs 19,278/- through contribution from Council members and IETE HQ Employees' one day's salary to the PM's National Relief Fund. President IETE handed over a cheque for Rs 2,19,728 to Hon'ble Minister of Communications & Information Technology, Shri Dayanidhi Maran.



क्र. को. सं. 39  
 डी. ओ. नो. MOC & IT/2005

**DAYANIDHI MARAN**  
 MINISTER OF COMMUNICATIONS &  
 INFORMATION TECHNOLOGY

**Dated 09.02.2005**

**Dear Gen. Sehgal ji,**

I am in receipt of your letter No. IETE/M/PMRL/05 dated 13.01.2005 forwarding a Cheque No. 46770 dated 11.01.2005 for Rs. 2,19,728/- (Rupees two lakh nineteen thousand seven hundred and twenty eight only) drawn in favour of Prime Minister's National Relief Fund, as your donation, for the victims of 'Tsunami' occurred on 26<sup>th</sup> December, 2004. I thank you for the nice gesture.

The cheque is being sent to the Prime Minister's Office.

**With regards,**

Yours sincerely,

**[ DAYANIDHI MARAN ]**

**Lt. Gen. D.P. Sehgal,  
 President,  
 The Institution of Electronics and  
 Telecommunication Engineers,  
 2, Institutional Area,  
 Lodi Road,  
 New Delhi-110003.**



### MoU between IETE and IEEE

IETE and IEEE have a memorandum of understanding (MoU) to encourage exchange of technical information and promote co-operation between both organizations. To renew this MoU and exchange views on the matters of mutual interest, a meeting with Mr W Cleon Anderson, President IEEE and IETE Council Members, present in Delhi, was organized on Jan 21, 2005. The meeting was also attended by the IEEE members of India and Delhi Chapter. IETE Council Members had discussions on perspective of joint activities; reproduction of selected articles from IEEE publications and sponsoring seminars with IEEE President. Lt Gen D P Sehgal, President IETE apprised President IEEE of the achievements of IETE in; dissemination of information, human resource development and research work in the field of electronics, telecommunications, computer science and engineering. He impressed upon the President IEEE that IETE is looking forward for active participation of IEEE sponsored experts in the forthcoming International conference and IETE-Expo during the Annual Technical Convention of IETE in September 2005. Gen Sehgal also requested Mr Cleon Anderson to look into the requirements of IETE for publishing transliteration of some selected articles from IEEE publications in Hindi. On this occasion Lt Gen Sehgal and Mr W Cleon Anderson also signed and exchanged the MoU between IETE and IEEE, which will remain in force till Dec 31, 2007.

### Renewal of Agreement between IETE and IEEE (UK)

IEEE President, Prof John O'Reilly visited IETE on Feb 28, 2005 and had discussions with Lt Gen D P Sehgal, President IETE on the subjects of common interest. The two presidents renewed and

exchanged the Agreement between IETE and IEEE. Under the provisions of the Agreement, visiting members are provided facilities equivalent to the local members of reciprocal organization. Exchange of certain publications and purchase of publications on concessional rates are also in the Agreement along with joint organizing and sponsoring of the seminars and conferences.

### NEWS FROM LOCAL CENTRES

#### Allahabad

A national seminar on "Internet: New Horizons" was jointly organized by IETE, Allahabad Centre, CSI, Allahabad Chapter, J K Institute of Applied Physics & Technology, United College of Engineering & Research, Allahabad and Allahabad Management Association. Welcome address was delivered by Prof S G Prakash, Chairman IETE, Allahabad Centre. The convener of the seminar Dr G S Darbari introduced the topic. Lt Gen D P Sehgal, President, IETE inaugurated the programme. Keynote speakers included Maj Gen Yashwant Deva, Past President, IETE and Hon'ble Justice Yatindra Singh of Allahabad High Court. The chief guest on the occasion, Prof Krishna Kumar, Director MNNIT, Allahabad released the souvenir.

The invited presentations in three different technical sessions were on Wireless Protocols, IT Triggered Convergence of Technologies, Cultural and Human Values and Generations of Internet along with contributed papers in each of these sessions. The panelists in the valedictory session included Prof K K Bhutani, Prof B N Jha, Prof Krishna Kant, Shri Radhey Shyam, and Shri Prasun Banerjee.

Prof K K Aggarwal, Vice Chancellor, GGSIP University New Delhi & IETE Past President, delivered 7<sup>th</sup> S N Ghosh Award Lecture on the theme "Information Technology & Society" on Feb 12, 2005. Prof H R Singh, Vice Chancellor, Allahabad University presided over the function

#### Bangalore

The centre conducted the following lectures during December 2004 and January 2005 :-

- Introduction to Embedded Processor Architecture, Introduction to Real Time Operating Systems (RTOS), Computer Architecture, TASK, SEMAPHORES and CONTEXT SWITCHING, Embedded Pipelined Organization, Mutual Exclusion, Intertask Communication, Interrupts, Programme Development & Case Study, RISC Processor, VxWorks IDE, HOST, Target, BSP, RTOS examples Programme Demo.
- Group discussions among student members on "Mobile Communication and Internet" were held on Dec 4, 2004.
- A lecture jointly organized by IETE Bangalore Centre and IMAPS, India Chapter was delivered by Prof Nihal Sinnadurai, on "Photonics Reliability – Managing the Time Bomb".
- A lecture on "DSP Applications to Radar" was delivered by Shri P Radha Krishna, Scientist LRDE on Dec 11, 2004.
- Embedded Processor Architecture: RISC Processor, VxWorks (RTOS) Programme Demo, ARM Architecture, INT, MUTEX Program Demo, Device, Drivers comparison of Operating Systems, Superscalar & VLIW Architecture, ARM tool Demo, examples on data processing

### IETE Mid-Term Symposium

The 36<sup>th</sup> IETE Mid Term Symposium will be held during 30<sup>th</sup> April-1<sup>st</sup> May 2005 at Bangalore on the theme, "Emerging & Futuristic Communication systems". Important topics like Intelligent Networks & Services, Direct Internet Access Systems, Mobile Networks, Mobile Computing, MEMS in Communication Systems, Privacy & Network Security etc. are scheduled for discussions. Pre-symposium tutorials will be conducted on 29<sup>th</sup> April 2005.

instructions, Demo on load store instruction in ARM Processor—these lectures were also conducted.

### Delhi

The Centre organized one-day seminar on “Emerging trends in Wireless Technologies” on Jan 22, 2005. In his welcome address, Shri S K Aggarwal, Chairman Delhi Centre, gave brief introduction of the speakers and the topics they were to speak on. Lt Gen D P Sehgal, PVSM, AVSM, VSM, President IETE, in his inaugural address said that in technically advanced countries, Wireless Systems beyond 4G are being standardized to provide multimedia access at affordable cost anywhere, anytime. He said increase in demand for multimedia wireless networks poses challenges in quality of service and availability of spectrum, which have to be met with technology innovation and upgradation both in software and hardware. Error free on-demand affordable communication is essential for conduct of all activities of business and scientific work.

Wg Cdr T R Dua (Retd), Advisor, Bharati Televentures, spoke on portable and mobile Internet. He touched upon 2.5G and 3G technology along with Wi-Fi, Wi-Max, Bluetooth etc in his talk. Dr V Mitra in his talk on Packet Switched Networks dealt effectively the technology in use, spectrum issues, frequency reuse, Broadband Wireless Access (BWA), Security issues along with network topology. The third speaker in the seminar was Shri Sanjay Jasola, Dy Director IGNOU who spoke on IP Mobility in Emerging Wireless Technologies. He covered the technologies and the standards—PAN, WLAN, WWAN, WMAN etc. He also talked about technical mobility & personal mobility and multiplexing techniques.

### Hyderabad

The centre conducted the following events :-

- Shri V R S Gopala Krishna, Sr Dy General Manager, ECIL Hyderabad, the recipient of the 9<sup>th</sup> IETE-Prof S N Mitra Memorial Award delivered a

lecture on “Beam Shaped Antennas and Four Port Combiner Network used in Earth Station Antennas”.

- Shri S Narayana, Scientist & Head, Instrumentation Division, NGRI, Hyderabad, the winner of IETE Hari Ramji Toshniwal Gold Medal Award for 2004 delivered a lecture on “Design & Development of Geophysical Instruments for Ground Water & Mineral Exploration with special reference to Portable Multi-Probe Borehole Logger” on Dec 27, 2004.
- Valedictory function of a short-term course on “PC Hardware and Troubleshooting” was held on Jan 11, 2005. Shri MAS Reddy, GM (Maintenance), BSNL Hyderabad was the Chief Guest.
- A lecture on “The Role of Information Technologies in Emerging Economies”, by Prof Raj Reddy, Director, Carnegie Mellon West, University was jointly organized by IETE Hyderabad Centre, IE (I) Hyderabad Chapter, CSI, Hyderabad Chapter on Jan 12, 2005 at IETE Hyderabad Centre. Prof Raj Reddy focused on the accessibility and affordability of IT. He advocated for providing almost free access to Internet and development of PC Tvt, which is 5 in 1 multifunction information appliance (PC Tvt TV, PVR, Videophone, IP Phone and PC). Entertainment, Communication and Education must be made affordable and accessible to the 4 billion Indian people living below the poverty line.

### Kanpur

An International Conference and Exposition on Communications and Computing was jointly organised by IETE and IIT, Kanpur during 5-6 February 2005 at IIT, Kanpur. Lt Gen D P Sehgal, in his address emphasized the importance of Communications and Computing technologies in economic development of nations. He said that the mobile wireless communication based networking has captured the attention of scientists,

engineers, industry, businessmen, service providers and citizens alike. Gen Sehgal opined that high capacity computing power and broadband channel are the two essential requirements, which enable every scientific and business activity to take place in the desired manner.

The seminar was addressed by Prof K K Aggarwal, Shri Kiran Karnik, Shri N Vittal and a large number of experts. Shri Sam Pitroda addressed the conference through video conference. The Seminar discussed Innovation and Knowledge Management, Cyber Security, Communication Systems and Networks, Grid Computing, 3<sup>rd</sup>/4<sup>th</sup> Generation Mobile & Cellular Communication, e-Commerce/ Governance: Applications & Technologies, Short-range Wireless: Wireless LAN, Devices, RF ids, Next Generation IP and Mobile Networking, Communication Technology for Rural Markets, Internet Technologies & Applications, Technologies for Secure Communication, ICT and Social Development, Telematics in transportation- Future trends, IT Services and Outsourcing, New Direction in Optical Communication, Networks & Switching, Capturing Intellectual Leadership on new issues.

### Kolkata

President IETE, Lt Gen D P Sehgal, visited the centre on Feb 7, 2005 and was introduced to the activities of the centre. He chaired a special meeting of Executive Committee and had detailed deliberations with them. He went around the laboratories set-up by the Centre, and saw Microprocessor based Experimental Jig-with a transmitter, wave-guide, Transmission and Receiving Antenna, Signal strength measurement setup, Embedded system, VLSI, Micro-Controller based product design etc.

### Mhow

A technical paper contest for degree level students was held on Nov 20, 2004 and authors of 10 best papers were invited to present their papers. The function was presided over by Brig SPS Grewal, Chairman IETE Mhow Centre. Lt Gen M G

Datar, VSM, Commandant MCTE and Col Commandant Corps of Signal was the Chief Guest on the occasion. The paper on “Real-time Wideband Spectrum Analyser” by Maj Amit Oberoi of MCTE, Mhow was adjudged as best paper and author was awarded a cash prize of Rs 3000/-. The second prize of Rs 2000/- was won by Shashi Bhushan and Shubi Choudhary of IPS Academy, Indore for their paper on “Radio Frequency Based Identification and Security System”. In addition, two consolation prizes of Rs 1000/- each were won by Capt Ashish Mathur & Capt Manu Madan of MCTE, Mhow and Noor Salam Khan & Harpreet Singh Siddhu of Rishiraj Institute, Indore.

### Mumbai

IETE Mumbai Centre organized technical lectures on “Current Trends & Future Prospects in Optical Communication” on Dec 29, 2004 and “Voice over IP” on Jan 19, 2005.

### Mysore

President IETE, Lt Gen D P Sehgal, PVSM, AVSM, VSM (Retd) inaugurated the Sub-Centre building on Feb 27, 2005. The Centre has acquired new premises at the following address :

201/1st Floor, 1st Main, Mytri Arcade, Saraswatipuram, Mysore-570 009.

9<sup>th</sup> Sir C V Raman Memorial Lecture on “X-ray Crystallography and its application to Materials Science including Bio-Molecules” was delivered by Prof J Shashidhara Prasad, Vice-Chancellor, University of Mysore. Shri P N Chopra, DIG, BSF (Retd), Chairman TPC introduced the lecture and the speakers. Lt Gen D P Sehgal, President IETE, presided over the function. Shri T K Chandrashekhar, GM, Mysore Telecom Dist, BSNL, Mysore was the Guest of Honour. Chairman, IETE Bangalore Centre, Prof C Murali, proposed vote of thanks.

### Noida

The centre organized a function to

celebrate the IETE Noida Centre's winning the best growing Centre Award. The Chief Guest on the occasion was President, IETE. The Chairmen & members of all Executive Committees, right from the inception of the centre, attended the function amongst large number of IETE members.

### Pune

The following are the important activities of IETE Pune Centre:-

- Prof (Mrs) M B Khambete, HOD, Dept of E & TC Cummins College of Engg for Women, Pune delivered a lecture on “Humanoid Robot” on 20 Jan 2005.
- Dr Arun Bapat, Seismologist delivered a lecture on “ Monitoring Tsunamies on Indian Coast” on 29 Jan 2005.
- A students meet was arranged on Feb 27, 2005 to guide the students of AMIETE and DipIETE regarding job training, apprenticeship, project training and job opportunities available to them.
- IETE Pune Centre has equipped their computer lab with E-Network, which may be linked to Edusat.

### Rajkot

President, IETE Lt Gen D P Sehgal, visited and inaugurated the newly acquired premises of the centre on Jan 23, 2005. The inauguration ceremony commenced with prayers followed by Welcome Address by Shri C M Devani, Chairman of the centre. He conveyed the happiness of the members over the presence of the President, IETE in their midst during the function. He also welcomed the members of IETE Ahmedabad Centre; Mrs Smritiben Dagur, Ex-Chairman, Prof J V Dave Chairman, Shri Udani, Hony Secretary and Wg Cdr S R Vasavada of Vadodara Centre. Shri Devani expressed great satisfaction over the efforts made by the members. Speaking on the occasion, Gen Sehgal said

that IETE is interested in dissemination of Information & Communication Technologies and also providing opportunities to the people for career-advancement through non-formal education in the important field of electronics, telecommunications and computer science & engineering. He advised people to take advantage of the opportunities & help in nation development through knowledge acquisition.

Mrs Smriti Dagur, Ex-Chairman Ahmedabad Centre congratulated IETE Rajkot centre for having their own building within a short period. She felt happy to see her dreams come true. She assured necessary help from the resources under her control for development of Rajkot Centre.

Shri Gujubhai Bharad, a leading educationist and Ex-Chairman of Lok Vigyan Kendra Rajkot explained the necessity of IETE Centre and advised the students and parents to take full advantage of this Institute which is only one of its type in Saurashtra region. He promised to share his experiences in the development of this centre and assured all kind of help.

### Trivandrum

The Centre arranged a one-day seminar on “Data Communication in Wired and Wireless Networks” which had seven technical presentations on Dec 11, 2004. The seminar was well attended. 88 delegates from various organizations like BSNL, VSSC, Kerala State Electricity Board, Regional Research Laboratory, College of Engineering etc. attended the seminar.

### Vadodara

A National Seminar on Embedded Systems and Emerging Trends was organized by the IETE Vadodara Centre on 29<sup>th</sup> and 30<sup>th</sup> Jan 2005. The seminar was well attended, as the subject Embedded System was topical and of immense interest



to one and all. Embedded Systems are the microcontrollers and microprocessors, which have resulted in major improvements in the operational capabilities of various systems and sub systems used by Armed Forces, industries and aeronautical services. The seminar was inaugurated by IETE President, Lt Gen D P Sehgal. It had seven technical sessions and four poster sessions spread over 2 days.

Gen Sehgal said Embedded systems are cost sensitive with diverse applications. The topics covered were Embedded system software/ hardware development & design, Real time multitasking / operating systems and Embedded technology and its impact on human life.

#### Varanasi

The centre organized a seminar on "Broadcasting & Internet" at Varanasi on Dec 12, 2004. The speakers included Dr M L Bala, who was the Chief Guest, Prof A K Ogra, Dir Information Technology and Management Institute, Gorakhpur and Prof K K Bhutani, Director, UPTEC, who spoke on wisdom machines.

#### Vijayawada

The technical lectures conducted by the centre were:-

- Satellite Communication by Er J Lakshmi Narayana, lecturer ECE Department, Koneru Lakshmaiah College of Engg, Vaddeswaram, Guntur on Nov 6, 2004.
- Data Mining and Neural Networks on Nov 20, 2004 and Role of Neural Networks in cancer Diagnosis on Jan 8, 2005 by Er G Vijay Kumar. Lecturer of ECE Dept, V R Siddhartha Engineering College, Vijayawada.
- VHDL by Ms G Jaya Rani, Lecturer ECE Department, Koneru Lakshmaiah College of Engg, Vaddeswaram, Guntur on Dec 4, 2004.

#### DISTINCTION

BES Honorary Fellow- Lt Gen D P Sehgal PVSM, AVSM, VSM (Retd)

Lt Gen D P Sehgal, President IETE a dynamic leader with vast experience of more than four decades in planning, implementation and management of both wireless and wireline telecommunication networks was conferred the Honorary Fellowship of Broadcast Engineering Society (BES) by Hon'ble Minister of Information and Broadcasting, Shri S Jaipal Reddy on Feb 17, 2005 during the inaugural ceremony of the 11<sup>th</sup> International Conference on Terrestrial & Satellite Broadcasting. This is yet another recognition of Lt Gen Sehgal's contributions in the diverse field of communications, where he has been achieving synergy through integration and convergence of Communication technologies in point to point and broadcast communication. Lt Gen Sehgal is a Distinguished Fellow of the Institution of Electronics and Telecommunications, where he has been contributing for more than two decades. He has been a Council Member, Chairman Industrial Coordination forum, Vice President and presently is its President.

#### ISF ACTIVITIES

- Students of ISF Dayananda Sagar College of Engineering, Bangalore visited "Land Line Switching Station of BSNL" as a part of their course curriculum on Dec 7, 2004.
- The first ISF at NSS College of Engineering, Palakkad under the Palakkad sub-Centre was inaugurated on Dec 13, 2004 by Dr N Gopala Krishnan, Hony Director of Indian Institute of Scientific Heritage, Trivandrum. Shri C K Haridas, Chairman Palakkad Sub-Centre presided over the function. A lecture on value-based education & scientific heritage was delivered by Shri N Gopalakrishnan.
- JNNCE ISF, Shimoga arranged a one day workshop on "Embedded

Controllers" (ARM Processor Architecture and Demonstration) by Shri Sunil Kumar, M S Ramaiah School of Research and Advanced Studies, Bangalore. Two weeks training classes on "Design of Radio Receivers" were also arranged by the ISF. Student Forum conducted seminar on "Blue Tooth Technology and Operating System for smart Phones, Einstein's General and Special Theory of Relativity, MoSFET and FM Receiver Design.

- ISF at Parshavnath College of Engineering, Thane was inaugurated on Aug 30, 2004 by Dr T S Rathore. The ceremony was followed by a technical lecture by Shri Vimal Wakhlu on "The Future of Mobile Communication".
- On Sept 28, 2004 Vidhya Vardhini College of Engineering, Vasai was inaugurated and another ISF at K C College of Engineering, Thane was inaugurated on Oct 15, 2004.







#### AWARDS & ACHIEVEMENT

IETE congratulates its Council Member, Lt Gen Davinder Kumar, PVSM, VSM & Bar (F062931L) on being conferred the prestigious Award of Param Vishisht Seva Medal by the President of India on January 26, 2005.

Wg Cdr D N Mishra (Retd), (F014255L) is contributing a lot in making the world a better place to live. He is the Secretary-Administrator of the Chandigarh Senior Citizen Society, Joint Secretary of the Society for Prevention of Cruelty to Animals (SPCA), a member of Green Peace. For him age is not the constraint. At 67, he helps organizing awareness seminars on kindness to animals, get stray animals vaccinated and takes upon himself to treat animals. For the benefit of other senior citizens, Wg Cdr Mishra also helps in maintenance of equipment of five physiotherapy centres.

Kudos to such senior IETE Members who have their faith intact in humanism and ecological equilibrium.

### CALENDAR OF EVENTS

Subject	Date	Venue	Contact
 13 <sup>th</sup> Convergence India 2005- International Exhibition & Conference	22-24 Mar 2005	New Delhi	Exhibitions India Pvt Ltd A-17 (2 <sup>nd</sup> -Floor) DDA SCO Complex, Near Moolchand Flyover, Defence Colony, New Delhi- 110 024 Tel: +91 11 2463 8680, 5155 2001 Fax: +91 11 2462 3320, 24633506 Exhibitionsindia@vsnl.com www.exhibitionsindia.com
 National Conference on Bioinformatics Computing (NCBC'05)	18-19 Mar 2005	Patiala	Shri Deepak Garg Convenor, NCBC'05, Computer Science & Engineering Department, Thapar Institute of Engineering & Technology Patiala-147004 (Punjab) E-mail: deepakgarg@ieee.org Ph: 0175-2393007 Mobile: 09815599654
 National Conference on Emerging Trends in Wireless Technologies NCETWT- 2005	15-16 Apr 2005	Dera Bassi Chandigarh	Shri R C Arora Convenor, NCETWT-2005 Scientist'F' Mechatronics and Indl Automation Deptt, Central Scientific Instruments Organization, Sector30-C, Chandigarh- 160030 0172-2651745-6 Ext 218/423;0172-2657333,2651061, 2659951 (M) 9814610195 Fax: 0172-2657333, 2657082 E-mail: rca_ncetwt05@yahoo.com
 2 <sup>nd</sup> National Conference on Advances in Electronic Communications (ADELCO 2005)	18-19 Apr 2005	Kovilpatti (TN)	The Convenor- ADELCO 2005 National Engineering College, K R Nagar Kovilpatti-628 503, Thoothukudi dist Tamil Nadu Ph: (04632)222502, 230227 Fax: 232749 Web: <a href="http://www.nationalengcollege.org">http://www.nationalengcollege.org</a>
 36 <sup>th</sup> IETE Mid Term Symposium & Exhibition "Emerging & Futuristic Communication Systems" (EFCoS-05)	29-30 Apr 2005	IISc, Bangalore	The Hony Secretary IETE Bangalore Centre Bellary Road, Ganganagar Extension, Bangalore-560 032 Ph: 080-2333 1133/ 080-2333 7231 e-mail: iete@radarindia.com; ietebang@vsnl.com Website: <a href="http://www.ietebblr.org">www.ietebblr.org</a> IETE HQ, 2, Institutional Area, Lodi Road, New Delhi-110003 Ph: 011-5150 4751/ 2463 1830 Extn 51 & 53, Fax: 2464949429 e-mail: membership@iete.org Website: <a href="http://www.iete.org">www.iete.org</a> / <a href="http://www.iete.info">www.iete.info</a>
 India's 7 <sup>th</sup> International Infrabiz- Telecom India 2005	22-24 Nov 2005	Mumbai	Winmark Services Pvt Ltd Tel: 91 22 2660 5550 Direct: 91 22 5600 2988, Fax: 91 22 2660 3992/93 Info@telecommindia.com





Prof (Dr) S Saha presenting memento to Lt Gen D P Sehgal during his visit to Kolkata Centre



IETE NOIDA Centre Members with, their Best Growing Centre Award Trophy



Inaugural ceremony of National Seminar on 'Electronics in Automotives : Emerging Trends' during 16th & 17th Oct 2004 at Pune; (L to R) Prof S K Kshirsagar, Shri R V Datar, Shri Ravi Pandit, Shri M G Kulkarni, Dr M K Choudhari and Shri M N Shukla



Lt Gen Sehgal inaugurating newly acquired premises of Rajkot Centre



Lt Gen Sehgal, President IETE speaking on the occasion of inauguration of new premises at Vadodara Centre



Honorary Fellowship of BES (India) being conferred on Lt Gen D P Sehgal, President IETE by Shri S Jaipal Reddy, Hon'ble Minister of I&B



Dr N Gopalakrishnan, Director Indian Institute of Scientific Heritage Trivandrum inaugurating the First IETE Students Forum in NSS College of Engineering, Palakkad (L to R) KRC Pillai, Principal; C K Haridas Chairman IETE, Sub Centre and Prof M R Vickraman are also seen



Keynote address by Lt Gen D P Sehgal during BES Expo-2005 at New Delhi on 17th February 2005



Shri S Narayana before delivering Hari Ramji Toshniwal Gold Medal Award winning lecture with Shri C Govardhan, Chairman, IETE Hyderabad Centre and others



Prof H R Singh presenting a memento to Prof KK Aggarwal on the occasion of SN Ghosh Memorial Lecture

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 (Retd) C M Logani, VSM 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.  
Managing Editor : Air Cmde (Retd) P D Badoni, VSM.

(Cost of Production : Rs 4.00)