

सह वीर्यं करवावहै

# THE INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS

## FROM PRESIDENT'S DESK



The past few months have been very hectic for IETE fraternity. Around this period at IETE we also have elections. IETE will soon have a new President, some newly elected council members, and fresh executive committee members of some local centres. Activities wise we had useful and significant apex forums. The 38<sup>th</sup> World Telecommunication Day renamed as "World Information Society Day", one of the major events of the institution, was celebrated on 17<sup>th</sup> May 2006, across the country at all levels and sections of professional telecommunication community. During this exciting period, we at IETE got an opportunity to play our rightful role to contribute towards development of our discipline. All IETE centres and subcentres including IETE student forums excelled themselves by organizing and conducting seminars, symposia, lectures and expert talks by professionals keeping in mind the theme "Promoting Global Cyber Security" set by International Telecommunication Union (ITU) for the first World Information Society Day. ITU, sensing the need to develop a global culture of cybersecurity, urged all stakeholders to help increase global awareness of cybersecurity. In the furtherance of this task, IETE was privileged to have some of the eminent professionals and speakers on the subject of cybersecurity who made their significant contributions in spreading the awareness.

It was very satisfying and encouraging personally for me, to inaugurate the 2<sup>nd</sup> floor of IETE Bangalore centre and premises of IETE Palakkad sub-centre; holding the 2<sup>nd</sup> IETE Apex Forum on "Electronics for Telemedicine and e-Health" at Hyderabad and fruitful interaction with the IETE students of Guwahati centre regarding their promotional activities.

IETE has many challenges ahead in terms of growth, popularising technical education, global competition and human resource development. I am confident that with the support of all IETEians, we will rise to the occasion and deliver what is expected of us. IETE is all set for its next big event of Annual Technical Convention and International Conference in Sep 2006 on the theme "Convergence-Transformation From Vision to Reality" at Mumbai.

Your valuable suggestions are always welcome. E-mail to [ietend@bol.net.in](mailto:ietend@bol.net.in)

Lt Gen D P Sehgal

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IETE NEWSLETTER



World Telecom Day (WTD) at IETE HQs, Seated L R: Lt Gen Davinder Kumar, Chairman, TPC, Chief Guest Shri Nripendra Misra, Chairman, TRAI and Lt Gen D P Sehgal, President, IETE.



A view of audience at 38<sup>th</sup> WTD at Delton Hall, New Delhi.



Visit of IE (I) President to IETE New Delhi.



IETE Apex Forum at Hyderabad.



Release of Souvenir at Allahabad during national seminar on Sensor Networks and Applications. Seen on the dais: L R: Prof S G Prakash, Shri P N Gupta, Prof A B Samaddar, Prof R G Harshe, Dr U G Tiwary.



1<sup>st</sup> World Information Society Day celebrations at IETE Chandigarh Centre.



## NEWS FROM HEADQUARTERS

### Report on 38<sup>th</sup> World Telecommunication Day

The 38<sup>th</sup> World Telecommunication Day, re-christened as **World Information Society Day** during the World Summit on the Information Society held in Tunis in 2005, which marks the founding of International Telecommunication Union on May 17, 1865, chose the theme *Promoting Global Cybersecurity* for the year 2006 to highlight the serious challenges we face in ensuring the safety and security of networked information and communication systems. ITU, who have been deeply engaged in connecting the unconnected, advocated the development of ICT to assist the disabled and to prepare for emergencies and disasters. In an increasingly networked society, safeguarding cyberspace as well as ICT systems and infrastructure has assumed real urgency. Secretary General, ITU, Mr Yoshio UTSUMI and Secretary General, UN, Mr Kofi A Annan in their messages have appealed to all Members States and stakeholders to help increase global awareness of cybersecurity and to develop an international network of initiatives and ICT-based countermeasures to enhance security and build trust in the use of information and communication technologies. This is also critical for the future social and economic development, especially important for the developing countries.

The President of Senegal, **Mr Abdoulaye Wade** and **Professor Muhammad Yunus**, Managing Director of Grameen Bank, Bangladesh, were honoured with the **2006 ITU World Information Society Award** at a ceremony held at Geneva on 17 May 2006. Tributes were also paid to those who made significant contributions

towards building and strengthening the Information Society.

IETE HQs at New Delhi celebrated the occasion by arranging expert talks by the known professionals in the field. **Lt Gen Davinder Kumar, Chairman, Technical Programmes Committee**, delivered the welcome address and introduced the subject. He called ICT as the strategic and a national issue. He mentioned about the looming fear of deadly viruses, the cyber threats and the legal issues, need for cyber ethics and the need for cyber security awareness. He gave very useful tips for a cyber secure environment and shared some of the Cyber Security protocols.

**Lt Gen D P Sehgal, President IETE**, in his address highlighted the contribution of IETE and its charter towards the global movement to build the Information Society. He informed the audience about the work that IETE has been doing for the advancement of the technology along with its 52 local centres and subcentres spread all over the country and abroad for the benefit of the society. Talking of the cybersecurity, he said that it was extremely important because societies are vulnerable to a wide variety of threats especially in the communication savvy world.

**Dr Sundeep Oberoi of TCS**, highlighted the gravity of global security whose situation was like a bumpy road. He said that cyber security management problem is a system's problem and not a technical problem or a management problem but a social problem. He explained the risks that computer users are being compelled to face and how they are forced to transact values online. Talking of challenges he pointed towards accountability, which should be specific enough to fix a criminal; intervention strategies to ensure appropriate degree of technology adoption and coping with

the consequences of information systems failure. He said that the solutions were inadequate but way out is to involve non-specialists to cope up with cybersecurity. The option is to make people aware in simple terms and in turn the ordinary people may show the way to cope with the problem. Technology is only one dimension of the solution. Equally important are policy, standard operating procedure and human factors. He ended with an optimistic note citing indomitable human spirits.

**Brig A K Wahie, Commander, Army Cyber Security Establishment, Army HQs**, speaking on the occasion said that though the ICT has resulted in increased productivity, reduced costs and increased efficiency, it has also lead to increased dependence, its misuse and mismanagement. He said the need for concern is because of this tussle between technology and anti-technology. The cyber attack sophistication is increasing while the requirement of intruder knowledge is reducing. These attacks propagate through Speed factor- Mass-Mailing Worms; Volume factor- Spam-like attacks; the Durable Threat- Multi variant Viruses and the Elusive Threat- Blended Attacks. Other vulnerable areas are wireless security, VoIP threats. These vulnerabilities and threats to the security of information systems are eroding public confidence in the system. The perpetrators of these threats could be individual, the target could be the entire spectrum of internet users where as the motive could be just for fun, show-off, malicious intent, or state sponsored cyber terrorism. According to Brig Wahie, the three pillars on which the information security rests are People, Processes and Technology. In People perspective, the users need to be organized into different levels and their awareness level need to be urgently addressed. There is also a need for global & national initiatives in which cultural

aspects vis-à-vis cyber ethics and cyber rights need to be formulated. From process perspective, Information Security and Management Systems like ISO-277001 series, ISO-17799 and BS-7799 are standards for certification and code of practices. Regulations like Health Insurance Portability & Accountability Act 1996 (HIPPA), Gramm-Leach-Bliley Act (GLBA) and Sarbanes-Oxley Act (SOX) address the specific requirements of privacy of customer Information in financial institutions business controls. So, compliance is not optional but essential. From the perspective of technology, a layered approach needs to be applied addressing the aspects of confidentiality, integrity and availability. The need is to move from reactive technologies to proactive technologies. He summarised that the cybersecurity is everybody's responsibility and awareness should proliferate to the lowest levels.

**Shri Pawan Duggal, Advocate Supreme Court of India**, shared his expertise on legal aspects of cyber laws. He cited some of the cases involving cyber crimes and other infringements. He recommended for an improved network security and emphasized on stringent internationally accepted cyberlaws for different kinds of cyber crimes. **Shri Sayan Ghosh of NORTEL** spoke on Architecting IT Security. **Shri Vijay Shekhar, CISCO**, spoke on "Changing Paradigm of Network Security". He talked about the evolution of security challenges. He stressed on evaluating the threats objectively. He also gave an overview of CISCO NAC solutions.

The Chief Guest of the occasion, **Shri Nripendra Misra, Chairman TRAI**, started by recalling the vision foreseen way back in 1953 by the Founding President of IETE in its present motto of "Let us do great things

together". Sensing the severe constraint of available time, he enthralled the audience by stating that his prepared speech for the occasion may be "taken as read". He assured the august gathering that TRAI is seized of the three very important issues relating to telecom sector, namely the ever widening rural-urban digital divide, allocation and management of the frequency spectrum amongst various operators and service providers using different technologies and the vexing problem of interconnectivity. He assured of his efforts to bring about paradigm shift in how TRAI is to be operators friendly and supportive rather than the mere regulator. Talking of Global cybersecurity, he said that IT related security encompasses the global desire for cooperation. Security associated with IT deployment and IT infrastructure is a major multi-facet challenge which calls for the establishment of an integrated framework. The challenge cannot be dealt with the market forces alone or by Government setup but requires an innovative mix of solutions calling for collaboration of different stakeholders, the government, the regulator, industry, academia and sector specific specialists. There is an urgent need to create awareness at all levels. He emphasized on developing an effective information security model to curb the growing technology based menace.

The event ended by presentation of mementoes to all the speakers and an informal vote of thanks.

## IETE Apex Forum

The IETE Apex Forum on "Electronics for Telemedicine and e-Health" was organized on May 13, 2006 at IETE Hyderabad Centre. Dr K Rajagopal, VC, JNTU, Hyderabad, was the Chief Guest and inaugurated the programme. Lt Gen D P Sehgal,

President IETE, presided over the programme. President and Wg Cdr D N Misra (Retd), Chairman, ICC, IETE addressed the participants. Dr L S Satyamurthy, Project Director, ISRO, Bangalore; Dr D Lavanian, Apollo Hospital, Hyderabad; Shri V Giridharan, MD, Karishma Software Ltd, Hyderabad and Dr A K Sangal, Dept of IT, Chandigarh were the invited speakers for the above programme. Background paper on the subject by Chairman ICC was circulated to the participants.

## Visit of IE (I) President

IE (I) President visited HQs IETE and held discussions with President IETE, emphasizing need for institutionalising relationships between the two professional bodies by way of an agreement for mutual benefits.

## NEWS FROM LOCAL CENTRES

### Ahmedabad

One-day workshop on "Networking" was organized on March 4, 2006. The welcome address was delivered by the Chairman, IETE Ahmedabad Centre, Prof J V Dave. Shri P M Udani, Hony Secretary & Course Coordinator introduced the speakers and explained importance of Wired and Wireless Networking and its application. Smt Smriti Dagur, IETE Council Member, presided over the function. During the pre-lunch session, the lectures organized were: "Wireless Network & Security" by Prof K R Parmar, LDCE; "Networking emphasis on Cisco Technology" by IIHT Faculty; "SATCOM Networking & Applications" by Shri S V Mehta, Scientist, ISRO. In the post-lunch session, demonstrations on networking using Cisco Technology were organized at IIHT Satellite centre.

### Allahabad

- A two day national seminar on "Sensor Networks and

Applications” in association with J K Institute of Applied Physics & Technology and E C College of Management & Technology, Allahabad was organized on May 13-14, 2006. The seminar was inaugurated by Prof R G Harshe, VC, University of Allahabad. Prof A B Samaddar, Director, Motilal Nehru National Institute of Technology, Allahabad, was the Chief Guest. Prof S G Prakash, Chairman, IETE Allahabad Centre welcomed the guests and delegates. Dr U C Tiwary, Convener of the seminar informed about the details of the seminar. Prof A K Gupta delivered the key-note address. The seminar was spread over 5 technical sessions followed by Valedictory session. Shri P N Gupta, Organizing Secretary of the seminar proposed vote of thanks.

- The Centre celebrated the 38<sup>th</sup> World Telecommunication Day on May 17, 2006. Prof R G Harshe, Vice Chancellor, University of Allahabad, was the Chief Guest. Prof S G Prakash welcomed the gathering. The two invited presentations were from Shri Anil Agarwal, IPS, DIG, Police, Varanasi, who spoke on “Cyber Crimes and issues related to cyber security”. He explained how the police investigated in some of the cases and decode the coded e-mails and nabbed the culprits. The second presentation was by Prof M M Gore, MNNIT, Allahabad, who spoke on technical aspects of the cyber security. Shri P N Gupta proposed vote of thanks.

### Amravati

IETE Amravati sub-centre jointly with IE(I), Amravati Centre, celebrated 38<sup>th</sup> World Telecommunication Day by

arranging a lecture by Shri Rajesh Deote, District Informatics Officer, NIC, Amravati on “Promoting Global Cyber Security” on May 19, 2006.

### Bangalore

Prof Ashok Talukder, IIIT, Bangalore delivered “Prof S V C Aiya Memorial Lecture” on the theme “Promoting Global Cybersecurity” on 17 May 2006, the World Telecommunication Day. Prof C Murali, Chairman, IETE Bangalore Centre, presided.

2<sup>nd</sup> Floor of IETE Bangalore centre building was inaugurated by Lt Gen D P Sehgal, PVSM, AVSM, VSM (Retd) on May 20, 2006. Exhibition of electronics projects by children of Summer School in Electronics-2006 (SUSIE) was also held on the same day.

### Bhopal

A three-day programme was arranged jointly by IETE Bhopal Centre and IE (I) M P Centre from 17<sup>th</sup> May to 19<sup>th</sup> May 2006 to celebrate the World Telecom Day. Hon’ble Kailash Vijavargi, Minister of IT & PWD, inaugurated the event. Shri R L Dubey, Director of Planning, BSNL Board, New Delhi was the Chief Guest. Shri R P Hans, CGM, M P BSNL was the Guest of Honour. The keynote address was by Prof (Dr) J L Rana, Prof & Head of Dept of Comp Science, MANIT.

The speakers on the second day were: Shri P P Khare - “Telecom in MP”; Shri Rajesh Gupta, GM, BSNL- “Broadband”; Shri Billore, Reliance Infocom- “Soft Exchange” and Prof (Dr) Aditya Goyal, MANIT- “WDM & DWDM”.

The topics covered on the third day were: “Wireless Service” by experts from Reliance Infocom; “Wireless Internet (Wi-Fi, WiMax)” by Shri S K

Shrivastava, GM, BSNL; “Broadband” by experts from Reliance Infocom and “Digital Terrestrial Television Broadcasting” by Doordarshan experts.

### Chandigarh

“Communication Technology, whether it is computers, mobile telephony or internet, has brought a revolution in the way we live, think and work and the pace of social and economic development has really become dramatic. The progress of telecommunication has made the world a global village quite synonymous to old Indian concept of ‘*Vasudeva Kutumbam*’” - stated Cdr (Dr) H S Sharma, IN (Retd), Ex President IETE, as the Chief Guest on the occasion of 38<sup>th</sup> WTD at IETE Chandigarh Centre. Dr Pawan Kapur, Director CSIO, Immediate Past Chairman of the IETE Chandigarh Centre, Shri A K Dimri and Council Member Wg Cdr D N Misra (Retd) also graced the occasion. Prof P Prabhakar, Wg Cdr (Retd), Chairman of the centre spoke on the issues of the Internet security and dealt with the various aspects involved and the future challenges. The other speakers who spoke on the subject were Shri D S Pathania, Vice Chairman, and Dr C Ghanshyam, Hony Secretary IETE Chandigarh Centre, who highlighted the importance of the day and expressed the need for evolving techniques for cyber security.

### Chennai

To commemorate the 1<sup>st</sup> World Information Society Day on the theme, “Promoting Global Cybersecurity” IETE Chennai Centre invited Shri K Sridhara, CGM, BSNL, Tamil Nadu Circle, as the Chief Guest. He delivered the key-note address. Shri A Ganesan, Hony Secretary of Chennai Centre welcomed the gathering, where as the theme of the

year was vividly explained to the audience by Shri V Appakutty, Chairman, Chennai centre. Citing examples of crimes like hacking, publishing digital certificates with false particulars, he said that to safeguard our systems and infrastructure and to instill confidence in e-commerce, e-governance, e-banking and a host of similar applications, the need for developing a global culture of cybersecurity is vital. He also urged his fellow telecom engineers to dedicate themselves to the cause of security of cyber society by strictly observing the provisions of IT Law on World Information Society Day. The eminent speakers included Shri A S Menon, Vice President, VSNL; Dr R K Raghavan, Advisor, Corp Security, TCS; Shri A Mohan, Dy Dir Gen, National Informatics Centre and Shri Na Vijayashankar, Director, Cyberlaw College. Dr M Ponnaivaikko, Er P Mohandoss, Er T Senthilnayagam, Shri D A Rajan were felicitated on the occasion. All engineering fraternity and professional bodies in the city were represented by their Presidents/Chairmen to felicitate IETE Chennai Centre. Shri K Sethuganesan, Hony Treasurer, proposed vote of thanks.

### Coimbatore

- IETE Coimbatore sub-centre celebrated World Telecommunication Day with great fanfare at Ettimadai, Coimbatore Campus of Amrita Vishwa Vidyapeetham on May 17, 2006. Welcome address was delivered by Dr T R Padmanabhan, Chairman of the sub-centre. Dr V Radhakrishnan, Director Engineering of Amrita University presided over the function. Prof K Gangadharan, Hony Secretary spoke on the central theme "Promoting Global Cyber Security".
- A one-day seminar on "Security in Mobile Networks" was organized by Coimbatore sub-centre & Amrita School of Engineering, Coimbatore on March 8, 2006. A student project contest was conducted in which more than 25 innovative projects in the areas of Biometrics, Fingerprint Identification, WAP, Wireless LAN, Smart Cards, Robotics, Microcontrollers and Embedded Systems were presented. Shri V Appakutty, Chief Engineer, AIR and Doordarshan Chennai inaugurated the seminar and delivered a talk on "Cyberlaws". Dr M Sethumadhavan, Head, TIFAC-CORE in Cybersecurity of Amrita University delivered a talk on "Information Security". Dr T R Padmanabhan, Dean-Engineering and also Chairman of the sub-centre, presided over the function. Prizes worth Rs 10,000/- were distributed to the contest winners.

### Guwahati

President IETE, Lt Gen D P Sehgal, PVSM, AVSM, VSM (Retd) along with Gp Capt H Kaushal, VSM (Retd), Zonal Coordinator East, visited Guwahati centre (NE Region) on April 29, 2006. The President addressed the members in a special Executive Committee meeting. The president & the zonal coordinator were felicitated at the centre with the offering of traditional "Fulam Gamocha" by the student members. The Chairman of the Guwahati Centre, Shri B K Talukdar; Hony Secretary, Shri P Saikia alongwith other senior members interacted with President & Zonal coordinator regarding promotional activities of both corporate & student members. Gp Capt Kaushal announced that the NE region is a thrust area for IETE HQ and assured all possible assistance to the IETE Guwahati Centre

for upgrading of existing computer lab & practical lab as per scale of IETE. Interacting with the student members of IETE, the President expressed happiness at the successful conduct of contact programmes for the benefit of the students at IETE Guwahati Centre.

### Gwalior

The World Information Society Day was celebrated by IETE Gwalior sub-centre on May 17, 2006. Delivering the keynote address Shri R K Gupta, the former Engineer-in-Chief, Doordarshan, Mumbai & the Council Member said that not only there is a threat to the information safety from the outside agencies but there is an equal threat from the internal hackers and packers. He gave the ten commandments for the safe keeping of the information. Dr Omvikas, Director, Atal Bihari Indian Institute of Information Technology and Management (ABV IIITM), Gwalior, was the chief guest of the function. The meeting was attended by about 50 members and the invitees.

### Hyderabad

- One day seminar on "Development of Human Resources for IT, Software & Hardware Industries" was organized by IETE Hyderabad Centre on March 11, 2006. Dr T H Chowdary, DFIETE, was the Chief Guest who inaugurated the seminar. A souvenir was released by the Chief Guest on this occasion. The topics covered for the four sessions were: The role of Universities in HR Development with reference to IT Industry, HR requirements of Software Industry, HR requirements of Hardware Industry and HR requirements of IT-enabled services. Maj Gen (Dr) R K Bagga, AVSM (Retd), Prof B L Deekshatulu, DFIETE, Shri Chinta Prakash, GM, CMC, Prof Ghanta Subba Rao, State



Chief Information Officer & Special Secretary to CM, Govt of AP, chaired the sessions and delivered the keynote addresses. The seminar concluded with a feedback session.

- On World Telecom Day one day seminar on “Promoting Global Cyber Security and 10 years Mobile Communications in AP” in coordination with IE(I), IEEE, CSI, CTMS, FAPCCI, ELIAP, ISOI, BES, was organized. The seminar was inaugurated by the Hon’ble Justice Shri DSR Verma, Judge High Court of Andhra Pradesh as the Chief Guest. Shri Pradip Baijal, former Chairman TRAI, delivered 2<sup>nd</sup> Dr T H Chowdary Endowment Lecture on “India’s Information Society- The Regulatory Dilemma”. Dr T H Chowdary, Distinguished Fellow, IETE and former IT Advisor, Govt of AP was felicitated on the occasion. Shri C Govardhan, Chairman, IETE Hyderabad centre, presided over the programme.
- 10<sup>th</sup> U V Warlu Endowment Lecture on “Undersea Communications” was organized on 26<sup>th</sup> May, 2006. Dr E Bhagiratha Rao, President, Institute of Defence Scientists and Technologists, Hyderabad was the Chief Guest and delivered the lecture.

## Jaipur

A two-day National Symposium on “Emerging Trends in Broadband Communication” was jointly organized by IETE, Jaipur Centre and MNIT, Jaipur, on 8<sup>th</sup> and 9<sup>th</sup> April, 2006 at Jaipur. The event was sponsored by BSNL, TEQIP, MNIT, Jaipur. Around

100 scientists and delegates participated in the symposium. It was designed to meet the needs and the aspirations of communication technology users, researchers, students and for those who cared to learn about the fascinating technologies which are responsible for the changes in the society. In the inaugural session, Prof S Sancheti, Chairman, IETE Jaipur Centre, welcomed all the invited guests & speakers and outlined how different technical sessions were planned for the symposium. Prof R P Dahiya, Director, MNIT, Jaipur presided over the inaugural session and in his speech, he advised that necessary actions should be initiated to make Broadband communication useful for common man. Engineer-in-Chief of Prasar Bharati, Shri N S Ganeshan told that future would be of broadband technology for different services. Shri S N Gupta, Principal Adviser, TRAI, said that Government policies have made broadband easily accessible to common man and with this the high speed internet, video on demand, DTH services are becoming popular. Shri Mohan Lal, CGM, BSNL, suggested for developing a technique to use television as a computer. Shri A K Bhandari, Adviser, Telecom Commission, Delhi, emphasized the necessity for reducing the price of broadband services further. Prof Damodar Sharma, Vice Chancellor, Technical University, Rajasthan, was the chief guest at the inaugural function.

Invited talks were also delivered by Shri S L Maskara from LNMIIT, Shri S L Singh from BSNL, Prof R Tomar from LNMIIT, Prof OPN Calla, ICRS, Jodhpur, and Shri R K Malpani from BSNL covering different aspects of broadband including broadband communication via satellites, Wi-Fi & Wi-Max Technologies, role of GaAs monolithic integrated circuits in LMDS systems, Terahertz technology and wireline access technologies. Seven

contributed papers were also presented by speakers from BSNL, MNIT, Jaipur and KITE, Jaipur. “Performance bottlenecks and enhancement solutions for IEEE802.11 MAC protocol in Wi-Fi Networks” by Ms Lavina Jain et al from MNIT, Jaipur, was adjudged as the best paper presented, while paper by Shri M R Singh et al from MNIT, Jaipur, titled “Fibre Optic Bragg Gratings for Broadband DWDM Systems” bagged the second place. Symposium souvenir was released by the Chief Guest, Prof Damodar Sharma and mementoes were presented to all the distinguished guests on the dais. Dr D Bhatnagar, Hony Secretary, IETE Jaipur centre presented the vote of thanks.

## Kolkata

A seminar was organized on the occasion of World Telecommunication Day on May 17, 2006 at IETE Kolkata Centre. Prof H Saha, Chairman of the centre, welcomed the guests. Shri Amiya Baran Saha, Chief Executive Director CDAC-Kolkata was the Guest of Honour, who highlighted that actual use of cyber security started sometime in 1969 and was mainly limited to the security provision of telecom network in case of various adversities. In 1993, the development of Internet Network as an open global communication system necessitated the ‘Cyber Security’ requirement considering the vast potential of this network in its commercial use. He also stated that the importance of internet communication in the modern life has gone so deep that deprivation of the facility can be considered as violation of human right.

Prof Shubhomay Maitra from Indian Statistical Institution, Kolkata, delivered the keynote address of the seminar. In his address he emphasized on the requirement and importance related to the cybersecurity especially

considering the modern day's mammoth use of cyber network for commercial use all over the world costing billions and billions dollar of worth. Therefore he deliberated on the cryptography and its development and progress towards the provision of security of network information system. He added that with the advent of "Digital Computer Network"-Cryptography for information network development has earned an important and significant measure against the violation of cyber security.

The Chief Guest of the occasion, Prof Dilip Kumar Basu, Ex-Vice Chancellor of Burdwan University & University of Tripura appreciated the other speakers for bringing out the essence of the subject theme and deliberations on the development and measures being taken up to provide the best cybersecurity measures. He, however cautioned that this process needs continuous efforts to make it foolproof system in view of class of brain working against the security measures for reaping the illegal benefits by penetrating through security measures embedded in multi billion dollar commercially valued cybernetwork.

The seminar was concluded by vote of thanks from Hony Secretary of the Centre, Air Cmde (Retd) P Banerjee, VSM.

### Mhow

IETE Mhow sub-centre organized a Technical Paper Presentation Contest-2006 for undergraduate IETE students and students of engg colleges of MP, Maharashtra, Gujarat, Chattisgarh and Goa at MCTE, Mhow. The Contest received an overwhelming response from students of various engineering colleges and IETE centres. The final of the contest was held on 25<sup>th</sup> March 2006. It was presided over by Maj Gen G S

Aulakh, Dy Commandant, MCTE, Mhow. He released souvenir of the event in the form of a book and a CD. Lt Gen M G Datar, VSM, Commandant, MCTE and Colonel Commandant Corps of Signals was the Chief Guest on the occasion. Event was conducted by Asst Prof Rajesh M Bodade, Hony Secretary, IETE Mhow and vote of thanks was proposed by Col S L Phirke, Vice Chairman, IETE Mhow sub-centre. The paper on "Enhanced Security Mechanism for OS-SE Linux" by Captain John Mathew of MCTE, was adjudged as the best paper and was awarded a cash prize of Rs 2,500/- and a trophy whereas a paper on "Directed Flood routing for Wireless Sensor Networks" by Major D S Jamwal of MCTE, Mhow got the second position with cash prize of Rs 1,500/- and a trophy. The prize of Rs 1000/- and a trophy was given to Shri Noor Salam Khan & Shri Harpreet Singh Siddhu of Rishiraj Institute of Technology, Indore for their paper on "Coverage Problems in Wireless Ad hoc Sensor networks". The event was widely covered by many leading national Hindi & English newspapers.

### Mumbai

- International Conference on "Next Generation Networks" organized by IETE Mumbai was held during Feb 9-11, 2006. About 20 contributed papers were presented on the first day. The guest speakers on 1st day were: Shri K C Jangir, Director, TEC, Mumbai; Shri K K Minocha, GM, Maintenance, BSNL, Mumbai and Shri Pitke, Axes Technologies. The conference was inaugurated by Lt Gen Davinder Kumar PVSM, VSM, Bar & ADC on Feb 10, 2006. The keynote speaker was Shri Prakash Bajpai from Reliance Infocom Ltd. After the inaugural session many founder and senior

IETE members were felicitated. Speakers from India and abroad (Singapore, Japan, France, USA, New Zealand) participated in the conference and made excellent presentations. The topics covered were on Next Generation Networks, Mobile Telephony, Convergence, Business Opportunities, Applications and Access networks, Security, Policy and Regulatory works. Atleast 12 poster presentations and 30 contributed papers were received from various faculties. All the participants were presented with proceedings and a CD containing all the topics. The event was cosponsored by Tata-Telecom, MTNL, BSNL, DLINK, IEEE etc.

- A technical lecture on "e-Learning: Trends & Technology" by Dr Prasanjit Sen, IT Consultant & FIETE was conducted on March 29, 2006 by the Mumbai centre. Shri Ulla G M Member, Technical Committee, IETE Mumbai centre, welcomed and introduced the speaker. Shri G S Tuteja, Chairman, IETE Mumbai Centre presented the memento to Dr Prasanjit.
- To commemorate the 38<sup>th</sup> World Telecommunication Day, IETE Mumbai Centre, celebrated the event jointly with IRSTE Mumbai Chapter, IET Mumbai Branch, IEEE Mumbai Section and BESI Mumbai Chapter. Shri Vijay Mukhi delivered the keynote address on this year's theme "Promoting Global Cyber Security". Shri A N Roy, Commissioner of Police, Mumbai, was the Chief Guest. Shri Roy explained the role of Telecommunication and technology during the investigation of crimes and criminals.



## Nagpur

IETE Nagpur Centre and Central India Research Institute, Nagpur, jointly held a seminar on LASER Technologies and 4<sup>th</sup> Dr P K Kapre Memorial lecture on April 2, 2006 to pay respect to Late Dr P K Kapre, who was President of IETE during 1965-67. On this occasion Prof Dr R S Sirohi and Principal R B Shewalkar were also honoured for their contributions in the field of education. Prof Sirohi and Principal Shewalkar were felicitated with shawl and shirwal. The inauguration was presided over by AVM U A Deshpande. The memorial lecture was on Nanotechnology by Prof Rajendra Patrikar of Visveshwarayya National Institute of Technology, Nagpur. The keynote address of the seminar was delivered by Prof Dr Sirohi, Vice Chancellor of Barkatulla University, Bhopal and Ex-Director of IIT, Delhi. Shri Vasant Bande of Quantalase, Indore; Dr Aditya Dharmadhikari, Dr Vinay Hasabnis and Prof (Dr) Vijay Sheorey fielded the queries from audience. The seminar was presided over by Prof Dr Vijay Sheorey, PRL, Ahmedabad.

## Palakkad

- World Telecom day 2006 was celebrated at Palakkad sub-centre under the joint auspices of IETE sub-centre and IE (I), Palakkad Centre on May 17, 2006. The session was presided over by Shri C K Haridas, Chairman, Palakkad sub-centre and inaugurated by Shri A K Mehrotra AGM and Unit Head of ITI, Palakkad. Prof K R Chandra Sekara Pillai of NSS College of Engineering delivered the keynote address. Shri N M Raveendranath, Secretary, IE (I) delivered the welcome address and Shri A S Rahulan, Secretary IETE, proposed vote of thanks.

- Lt Gen D P Sehgal, President IETE, inaugurated the premises of Palakkad sub-centre by unveiling the cornerstone in the presence of Shri S A Thomas, CGM, BSNL, Kerala Circle.

## Patna

IETE Patna Centre celebrated the World Information Society Day with Dept of MCA and Dept of Electronics, AN College and New Govt Polytechnic, Patliputra, Patna on May 17, 2006. Shri Om Vir Singh, FIETE, CGM, Bihar Telecom Circle was the Chief Guest. Shri S S Chaudhary, GM (Admn) Bihar Telecom Circle Patna, delivered the keynote address on the theme "Promoting Global Cyber Security". Dr Sita Ram Singh, Principal, A N College, Patna, presided over the function.

## Pilani

- IETE Pilani Centre felicitated Dr BR Singh, Sc "G" and IETE Fellow member for being awarded "5<sup>th</sup> IETE-CEOT (94) Award" on March 26, 2006.
- The following technical lectures were organized at the Pilani centre for the benefit of IETE members and CEERI/ BITS staff:
  - "Microwaves and Environmental Control" by Prof BN Basu, Emeritus Professor, Electronics Engineering Department, BHU, Varanasi on 28.07.05
  - "Accelerators & their Applications" by Dr RC Sethi, Head, Accelerator & Pulse Power Division, BARC, Mumbai on 10.08.05
  - "Nonlinear Processes towards Functional

Nanomaterials" by Prof Prasenjit Sen, Associate Professor of Physics, School of Physical Sciences (SPS), JNU, New Delhi on 29.03.06

- "Spintronics and their Applications" by Dr Ravi Kumar, Senior Scientist, Materials Research Group, IUAC, New Delhi on 28.04.06

- May 17, 2006 was observed as 38<sup>th</sup> World Telecommunication Day at IETE Pilani Centre on the theme "Promoting Global Cyber Security". On this occasion, after welcoming the gathering, Dr AK Sinha, Hony Secretary, read the message from the Secretary General, ITU. Then, Dr Virendra Singh, Scientist, CEERI and Mrs Amita Sharma, Banasthali Vidyapeeth gave thought provoking lectures on the theme. They elaborated the importance of cyber security in the modern cyber-age on different levels such as personal, organizational, global, etc. Dr Chandrashekar, Director, CEERI also spoke on the occasion. The program was a great success with lot of deliberations on the problem and its solution. It was felt that science through technology and society/ individual through awareness could help in this endeavor to achieve the theme and IETE might be helpful as a platform.

Mementoes were given to the speakers by Director, CEERI and to the Director by Dr R K Nahar, Past Chairman of the centre. Shri M S Tyagi, senior IETE member, proposed vote of thanks.

## Pune

Shri Deepak Shikarpur, Dir & CEO, Autoline Dimension Engineering Service Pvt Ltd was the Chief Guest on the occasion of WTD celebrations at IETE Pune Centre. Being an IT expert he gave a lively presentation covering the need for taking steps for Cybersecurity. Various measures and precautions to avoid hazards and damages were explained with examples. Easy tips were given to the audience. Other speakers were Shri D S Gandhe; Shri M G Kulkarni, Chairman IETE; Shri M Y Thote; Prof G S Mundada. Vote of thanks was proposed by Prof (Mrs) R R Desai.

## Vadodara

IETE Vadodara Centre in association with IE(I), Vadodara Centre and other 11 professional societies/institutions at Vadodara, viz. Society of Power Engineers, Indian Institute of Chemical Engineers, Quality Circle Forum of India, ICAI, IIW, ISNDT, IIMM, IIM etc came on a common platform to start joint activities of common and mutual interest. In this direction the first activity was organized on May 13, 2006 by arranging a lecture on "Ethical Management to Rejuvenate PSUs". On this occasion Shri A K Luke, IAS, MD, GSFC Ltd, Vadodara was felicitated with a memento for his outstanding performance in turning around the ailing GSFC to a profit making company. Dr Anil Kane, Former VC, M S University of Baroda and President, World Wind Energy Association, was the Chief Guest. The program was well attended and appreciated by all.

IETE Vadodara Centre celebrated 1st World Information Society Day in association with IE (I) Vadodara Centre on May 17, 2006 by organizing a

symposium. Inaugural speech was by the Chief Guest Maj Gen S K Sharma, Commandant, EME School, Vadodara. Shri D K Sinha, Pr GM, Vadodara Telecom District, BSNL presided over the function. The other speakers were: Shri Dharmesh Mehta, Mastek, Mumbai; Shri Jagdish Kannan, Inteq Net, Baroda; Shri Kiran Matai, ONGC, Baroda. The Chairman, welcomed the audience and the Hony Secy, proposed vote of thanks.

## Vijayawada

A technical lecture on "Promoting Global Cybersecurity" by Prof (Dr) J K R Sastry, Dept of ECM, K L College of Engineering, Vaddeswaram was arranged on World Telecommunication Day on May 17, 2006. Dr M C Chandra Mouly, Council Member, Shri E V Krishna Rao, Hony Secretray, IETE Vijayawada local centre presided over the function. The meeting concluded with vote of thanks by Ms M Padmaja, Hony Treasurer, IETE Vijayawada Centre.

## Visakhapatnam

A function to commemorate 38<sup>th</sup> World Telecommunication Day was organized by IETE Visakhapatnam Centre on May 17, 2006. The keynote address was delivered by Shri B Satyam, Vice President, Net Silica, Hyderabad on the theme of the day "Promoting Global Cyber Security". Shri Sivaram, IT Lead, GMR International Airports talked on "Security Standards". Prof GSN Raju, Chairman IETE, Visakhapatnam Centre presided over the function.

## ISF ACTIVITIES

- (1) A quiz contest on "Mobile Communication" was held at **SRKNEC, ISF Nagpur** on Jan 21, 2006, which was won by Ms Shweta Paradkar & Ms Priyanka

Mokhare from Anjuman College of Engineering. A lecture was conducted by Shri Ananda Bose on Ham Radio on March 19, 2006 by the ISF, Nagpur.

- (2) **College of Engg, Badnera**, now renamed as "**Prof Ram Meghe Institute of Technology & Research**" Badnera, Amravati, organized a lecture by Wg Cdr (Dr) M L Bala, Council Member, IETE on "Information Warfare and Satellite Communication" on Feb 6, 2006. An industry standard student training program on "Data Structure in C" by Dr M S Ali, Head of Comp Sc & Engg was organized during 25<sup>th</sup> to 26<sup>th</sup> March 2006.
- (3) **ISF M M Engineering College, Mullana**, organized a technical paper presentation on Feb 22, 2006 in four different technical sessions. The winners of various sessions were : Puneet & Shelja, Nitin & Suchita; Puneet Kalra, Jyoti; Manish & Lalit, Karan Mittal & Venika; Ashish & Bhadrashel, Rohit Sehgal & Niney Bhasin. Dr N P Mehta, Director, MMEC, Mullana congratulated the winners and gave away the prizes.
- (4) **IETE Student Forum at the Faculty of Technology & Engineering, The M S University of Baroda** in association with the Dept of Electrical Engg organized talks on "Management Vs Technology as Career" by Shri Ashis Pandya (Shankara Inc, USA) and on "Software Skills necessary for higher education" by Ms Mrinmayi Pandya (Internet Crusades, USA) on March 11, 2006.
- (5) A two-day national seminar on "Emerging trends in

Communication & Control technologies” organized by **Dept of Electronics & ISF of Shri Ram College of Engineering & Management, Banmore**, of Gwalior sub-centre, was inaugurated by Dr T S Rathore, IIT, Bombay, on March 25, 2006. Out of 50 papers, 28 papers were selected for presentation in four different sessions.

- (6) **ISF at Asia Pacific Institute of Information Technology SD India Campus, Panipat** organized an Institute level Paper presentation contest “Parakh-2006” on “Future Trends in IT” on Apr 5, 2006. Top ten papers were short-listed for presentation in the event based on specified criteria. Dr Brahmjeet Singh, Professor, NIT, Kurukshetra was the Chief Guest. Dr Singh, Dr Jai Prakash (Dean Academics) and Shri J P Upadhyay, APIIT SD India were the judges for the contest. Papers were on different topics ranging from Right to Information Act to Smart Homes, IP TV to

Nanorobots. Hon’ble Shri Moh Ali Ashraf Fatami, Minister of State, Dept of HRD, Govt of India, awarded the winners, E Kokulan, Vidhushi Tandon and Gaurav Kumar Jaiswal.

- (7) A two-day workshop on “Advancements in VLSI, DSP & RF Communication” was organized by **the Students' Chapter of IETE, BSA Crescent Engineering College, Chennai**, on April 6<sup>th</sup> & 7<sup>th</sup>, 2006. This chapter was inaugurated by Shri V Appakutty, Chairman IETE Chennai Centre on Aug 22, 2005. An industrial visit has been arranged for the II year & Pre-final year students of Electronics & Communication Engg to the reputed organizations. Apart from arranging guest lectures, the chapter also celebrated the 38<sup>th</sup> World Telecommunication Day on May 17, 2006 in association with IE(I). On this occasion Shri M Raghavendra Rao, Sub-Divisional Engineer, Rajiv Gandhi Memorial Telecom Training Centre, Chennai

was the Chief Guest, who delivered the key-note address.

- (8) A lecture on “Embedded Systems” by Prof Geetha Varma of NSS Engineering College, Palakkad under the joint auspices of IETE Palakkad and **IETE ISF, Nehru College of Engg & Research Centre, Pampady, Thiruvilumamala** was held on April 19, 2006.
- (9) (a) **JNNCE ISF, Shimoga**, conducted lectures on “Communication & WiFi Networks” by Shri Kumaresk K, Scientist ‘C’, BEL Bangalore and “Fun with Electronics” by Prof S Jagannathan, HOD in EC, RVCE Bangalore, in the month of April, 2006.
- (b) A seminar on “SPINTRO-NICS” by Shri Prabhanajan and Shri Shreyas S was arranged by the ISF on Mar 10, 2006.
- (c) A Hobby project competition and a debate competition was conducted by the centre.

### **An appeal to the IETE Corporate Members**

**Majority of the IETE students do not have access to suitable Learning Material or the Guidance Classes, the shortcoming amply highlighted by the 'Queries' posted on the 'Discussion Forum' of the Elan Portal (<http://www.iete-elan.ac.in>).**







**A vast pool of knowledge and expertise in the relevant fields exists with the Corporate Members who are requested to access the Forum and guide the students to overcome their academic doubts by answering the Queries.**

**This is the least we all can do for our IETE students.**

**Chairman, IETE-Elan.**



## CALENDAR OF EVENTS

Subject	Date	Venue	Contact
 National Conference on Signal Processing & Communication	7-8 July 2006	Shimoga	Dr R Srinivasa Rao Kunte Prof & Head, Dept of E&C JNN College of Engineering Shimoga-577204 Ph : 08182-276707-709 Fax : 08182 222450 E-mail : ncspc2006@rediffmail.com
 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-411048 Ph : 020-2693 2600 Fax : 020-2693 2500 E-mail : ncbs2006@viit.ac.in Web site : www.viit.ac.in
 IETE 49 <sup>th</sup> ATC and International Conference-2006	29 Sept - 01 Oct 2006	Mumbai	Shri G S Tuteja Chairman, Organising Committee 49 <sup>th</sup> ATC, O/o The Assistant Engineer C/o BSNL Complex. Telecom Civil Sub Div. 1 Juhu Danda, Santacruz (W) Mumbai-400 054 Phone : 022-26610124 Fax : 022-26609598 E-mail : ietemumbai@mtnl.net.in; ietemumbai@vsnl.net Website : ietemumbai.org
 National Conference on Recent Advancements in Microwave Technique 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) 9828088002 (M) E-mail : microwave06@rediffmail.com microwave@uniraj.ernet.in
 India International Engineering Expo 2006	2-5 Nov 2006	Mumbai	Mr Harry Singh Event Coordinator ET IIEE 2006 DESK India International Engineering Expo 2006 Secretariat 530, Laxmi Plaza, Laxmi Industrial Estate, 5th 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
 International Conference on Next Generation Communication Systems (ICONGENCOM-2006)	9-11 Dec 2006	Allahabad	Prof Nar Singh Convener, ICONGENCOM-2006



Keynote address by Shri K Sridhara, CGM, BSNL at WTD celebrations at Chennai Centre.



Session of EC members of Guwahati centre with President IETE and Zonal Coordinator East.



National Symposium on Emerging Trends in Broadband Communication at Jaipur.



Chief Guest, Prof Dilip Kumar Basu, Ex-VC of Burdwan & Tripura University, receiving memento from Chairman, IETE Kolkata Centre, Prof H Saha.



Maj Gen G S Aulakh, Dy Commandant, MCTE, releasing souvenir. Also seen are: Col S L Phirke, Vice Chairman, IETE Mhow Centre and Dr Rajkamal, DAVV, Indore.



Lt Gen Davinder Kumar, lighting lamp at International Conference on Next Generation Networks at Mumbai.





AVM U A Deshpande delivering address at seminar on Laser Technologies at IETE Nagpur Centre.



Inauguration of premises of IETE Palakkad sub-centre by President, IETE.



WTD celebrations at Patna.



Visakhapatnam Centre celebrating the 38th WTD 2006.



Annual function of ISF JNNCE, Shimoga.



National seminar on Emerging Trends in Communication & Control Technologies by ISF, Shri Ram College of Engg & Mgmt, Banmore.

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

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