

# THE INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS

## FROM PRESIDENT'S DESK



The 39<sup>th</sup> Mid Term Symposium (MTS) on the theme "Recent Advances in Broadband Systems" was recently held at Jaipur with very encouraging *response and involvement of participants*. A brief report on the activities held at MTS including 35<sup>th</sup> Vikram Sarabhai Lecture, 20<sup>th</sup> Lal C Verman Award Lecture, technical sessions & exhibition is in this issue of the Newsletter for information of our readers. The grandeur of the occasion was enhanced by the presence of His Excellency Shri S K Singh, Governor of Rajasthan and other dignitaries. I congratulate our Jaipur centre and its Executive Committee members for the excellent arrangements for the conduct of this important event.

IETE was happy to be associated with Exhibitions India in organizing the "16<sup>th</sup> Convergence India 2008" during 19-21 March 2008 at Pragati Maidan, New Delhi. Participation at this forum provided opportunities to find innovative approaches to convergent technologies and its applications, and also to understand and anticipate the technical and practical needs of today's market. Through this endeavour, IETE had fruitful interactions with both domestic and international visitors and participants. It proved to be an effective platform for promoting awareness in the society about IETE services.

From the events and happenings across the world, it is evident that telecommunication and information technology are passing through a very significant phase. If Metcalfe's Law is taken into account, the power of 250 million mobile phone subscribers in India is certainly going to change the world dynamics. Last year in 2007, over 18 lakh laptops were sold in India and quite a few of them were Wi-Fi and data card enabled. All this mobility and connectivity rely heavily on the affordability and accessibility of telecommunication technology. Broadband and convergence which were the topics of last two events mentioned above, are going to act as catalyst to boost the exponential growth of telecommunication industry. IETE has very significant role to play in furthering the growth of Telecom and IT industry through appropriate selection of events and activities for our future programmes.

Zonal seminars held at Bhopal and others scheduled for May at Imphal and Jammu hold promise to contribute to the development of telecom industry through communication and fruitful exchanges. We are also planning to have shortly another beneficial joint meeting with IGNOU. The forthcoming major events scheduled are joint seminar with IGNOU on "Distance Education in Bharat Nirman" in June 2008 and the 40<sup>th</sup> World Telecommunication and Information Society Day on 17<sup>th</sup> May 2008 on the theme **"Connecting Persons with Disabilities: ICT Opportunities for All"** to emphasize the special requirements of persons with disabilities. We expect good response for these events and seek active participation from centres/ sub-centres to help IETE accomplish its objectives. I extend my invitation to all members to participate. Any suggestions and feedback for our improvement are most welcome.

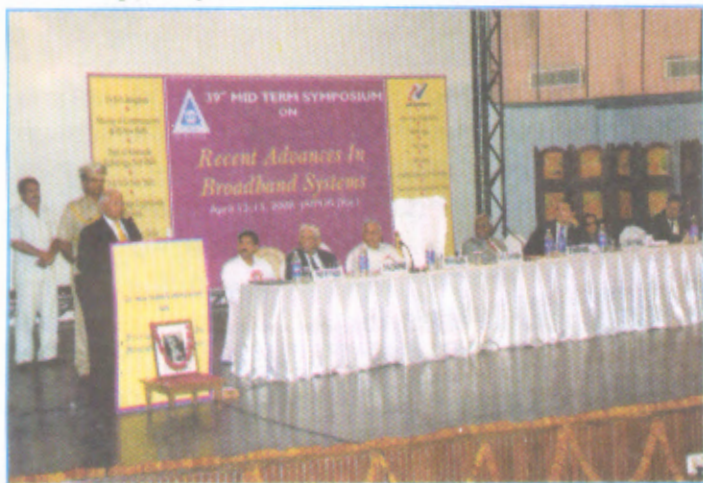
*P. Narayana*  
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## NEWS FROM HEADQUARTERS

### Report on 39<sup>th</sup> Mid-Term Symposium of IETE

The IETE Jaipur centre hosted this year's Mid-Term Symposium during 12<sup>th</sup>-13<sup>th</sup> April 2008. The theme "**Recent Advances in Broadband Systems**" was timely with mass appeal. The inaugural session commenced with the invocation. **His Excellency Shri S K Singh, Governor of Rajasthan**, inaugurated the symposium by lighting the ceremonial lamp. Other dignitaries present on the dais were : **Shri S Narayana, President IETE**; **Prof K K Aggarwal, Vice Chancellor of GGSIP University**; **Lt Gen D P Sehgal, PVSM, AVSM, VSM (Retd), Immediate Past President IETE** and **Shri P N Chopra, Chairman of Technical Programme Committee**. **Prof R P Yadav, Chairman IETE Jaipur centre**, welcomed the delegates and expressed happiness for the overwhelming response that the symposium received. **Shri P N Chopra, Chairman Technical Programmes Committee**, briefly introduced the theme of the symposium. **Shri S Narayana, President IETE**, informed about the recent activities carried out by various local centres of IETE. Delivering the inaugural address **Shri S K Singh** expressed his deep concern over the slow progress in the field of IT in India. But he hoped that the outcome of the symposium would give some new directions to the policy makers. A souvenir marking the symposium was released by the Governor. He also honoured **Dr M G Chandrasekhar**, who delivered **Vikram Sarabhai lecture** before the inaugural function and **Shri C A Kumar, Head, Quality Assurance Division, ISRO, Bangalore**, who was conferred with the prestigious **20<sup>th</sup> Lal C Verman Lecture Award** for his outstanding contribution towards standardization, Test and Evaluation of On-board Sensor Systems at Laboratory for Electro-Optics Systems (Leos), ISRO, Bangalore. **Lt Gen D**



Chief Guest Shri S K Singh speaking during 39<sup>th</sup> Mid-Term Symposium at Jaipur.

**P Sehgal, PVSM, AVSM, VSM (Retd)** and **Prof K K Aggarwal, Immediate Past Presidents, IETE**, were the other eminent speakers on the occasion. A memento was presented to the Chief Guest by the President IETE.

The **35<sup>th</sup> Vikram Sarabhai Memorial lecture** was delivered by **Dr M G Chandrasekhar**, an international renowned and award winning Space Scientist, on "**Vikram Sarabhai: A Pioneer of Modern India**". Dr Chandrasekhar has contributed significantly towards the growth of the Satellite centres in the country. Currently, he is the Chairman of a number of Global Satellite Companies including the Satellite Broadcasting Company, Devas Multimedia Pvt Ltd, located in USA & India and Advanced Space Technology and Services Pvt Ltd located in USA, Europe and India. Delivering his address, Dr Chandrasekhar said that today's modern and vibrant India was the result of vision of first generation leaders and pioneers like Dr Sarabhai. They had the ability to share their dreams with the people around and inspire them to convert those dreams into reality. Dr Chandrasekhar called Dr Sarabhai a towering personality with dynamic and charismatic leadership. Talking of India's unique place among space faring nations, Dr Chandrasekhar reflected India's journey from Rockets to massive Polar Satellite Launch Vehicles (PSLV) & Geo-Stationary Satellite Launch Vehicle (GSLV); from an experimental Satellite Aryabhata to a operational INSAT System for applications in communication and IRS system for applications in remote sensing. He talked of successful ventures of India into recovery systems and moon mission shows. He opined that success of India's future lies in indigenous development and innovative applications of all the systems and jointly shouldering the responsibilities of exploring frontiers of science & technology without losing the commitment towards improving the quality of life of the common people. A memento was presented to Dr Chandrasekhar. The vote of thanks was proposed by **Dr Deepak Bhatnagar, Hon'y Secretary, IETE Jaipur centre**.

The seven technical sessions spanning over two days were devoted to **Broadband Platform for Multimedia Delivery; Optical and Wireless Communication Systems; Communications in Special Sectors; Systems for Rural Connectivity; Microwave and Satellite Broadband Systems; Optical Communication Systems and Future Trends in Broadband**. A special lecture by **Dr Surendra P. Distinguished Scientist, ISAC, Bangalore** on "**TIME**" was arranged prior to the commencement of the technical session.

Technical Session-I was chaired by **Shri D Ray, Engineer-in-Chief, Doordarshan, New Delhi**. The speakers in session I included **Prof S D Joshi, IIT Delhi**, **Shri D Venugop**



Bangalore and Shri S K Gupta, TRAI, New Delhi. Technical Session -II was chaired by Dr Surendra Pal, Distinguished Scientist, ISAC, Bangalore. The speakers of this session were Prof S K Koul, IIT, New Delhi and Shri T R Dua, Ex Dir, COAI, New Delhi. Three papers by Research students from different institutions were also presented in this session. Dr S S Agarwal, chaired the Session-III, in which Prof H M Gupta, IIT, Delhi, delivered an invited talk on '4G Mobile Telecommunication Networks' and three research papers were presented by the students.

The second day of the seminar began with 20<sup>th</sup> Lal C Verman Award Lecture by Dr C A Kumar, ISAC, Bangalore. He spoke on "Self Reliance in Electro-Optical Sensors for Space Applications". Through his presentations he explained ISRO's achievement in reliability and quality assurance in their programmes which were necessary for successful Indian space programmes. He showed some of the sensors which LEOS was providing to ongoing space programmes including Chandrayaan- I.

Shri K B Narayan, Director, DIT, New Delhi, was the Chairman for Technical Session-IV. Shri R P Singh, DGM, and Shri V R Sonawane, Chief Engineer, Electronics & Telecom, ONGC, Mumbai; Shri S Raghunath, Dy Dir, CEERI, Pilani and Shri N K Goyal, Director, TEEMA, presented their invited talks in this session. During the Poster Session, nine papers were planned for presentation but only five of them were displayed by the selected students. Session on "Microwave and Satellite Broadband Systems" was chaired by Shri P K Garg, Wireless Advisor, Min of Communications, New Delhi, while Prof K P Ray, SAMEER, Mumbai and Col Vikram Tiwathia, CIO, CII, spoke as invited speakers. Three research contributions from students were also presented. Prof S Sancheti, Dir NIT, Surathkal was the Chairman as

well as the speaker in the session -V. He delivered an invited talk on the theme "Optical Communication- New Frontiers". Four research papers were presented in this session. The concluding session was devoted exclusively for the students, had six research papers and was chaired by Dr S K Bhatnagar, MNIT, Jaipur.

Two companies- M/s Technosys Systems, Jaipur and ScienTech Technologies Pvt Ltd, Indore, displayed their products in the exhibition, arranged during the symposium. The theme selected and the products displayed contributed greatly towards spreading the information about recent advances in Broadband Systems. IETE Jaipur centre conveyed thanks to BSNL and other sponsors of the symposium.

The seminar was preceded by Tutorial-I on "Optical Communications" by Dr B R Singh, Principal, PCE, Jaipur and Tutorial-II on "MW and Wireless Communications" by Prof H M Gupta, IIT, Delhi. The tutorial received good response from students and appreciation from all the participating delegates.

### 12<sup>th</sup> CV Raman Memorial Lecture

12<sup>th</sup> CV Raman Memorial Lecture was delivered by Dr Shamim Ahmad, Vice Chancellor, Jamia Hamdard University, New Delhi on "Nanotechnology and Human Health Care" on Feb 28, 2008 at IETE Hqs, New Delhi. Dr Ahmad, an expert in nanotechnology, is currently involved in applications of nanomaterials in MEMS/NEMS devices for health diagnostics, drug delivery and drug discovery and industrial applications of nanotechnology in association with CII and other Indian industries. Delivering the C V Raman Memorial Lecture, he informed the audience about the general properties of atoms and molecules. He said that in a conventional manner, atoms and molecules derived from the existing elements of the periodic table are considered to be the building blocks to synthesize materials in macro forms. Physical, chemical and biological properties of the resultant material are precisely determined by the constituent atoms and their spatial arrangements under thermodynamic equilibrium. In case of existing departure from the defect free ideal crystalline structure, the ultimate goal is to first realize the near ideal situation and then add known amount of deviations if needed to modulate the electrical and mechanical properties especially in case of monocrystalline doped semiconductors and metals for their numerous useful applications. Dr Ahmad informed that in Nanoscience instead of individual atoms and molecules, the clusters of few to few thousand units of atoms and molecules are considered as fundamental building blocks for synthesizing materials with unusual physical, chemical and biological behaviors. In



Shri P N Chopra, Chairman TPC, making a point during the symposium.



this endeavor, the interactions between nanoparticles and polymeric macromolecules are examined in detail in order to explore about further interactions between nanostructured material entities and biomolecules – the fundamental building blocks of living organisms. In practically all-biological processes, the presence of nanosize structures is noted to influence the biochemical interactions very significantly. As a result of these observations, it is anticipated that finally the interaction between nanostructured material entities (e.g. metal, semiconductor and insulator quantum dots and nanoparticles), polymeric macromolecules (e.g. fullerenes, nanotubes and dendrimers) and complex biomolecules like enzymes, proteins, lipids and many others will open enormous possibilities of modifying the cellular processes at molecular levels with high degree of precisions. The immediate use of this could be put in form of newer kinds of treatments of human diseases which were not possible so far. The possibilities of targeted drug and gene deliveries are being intensively looked into with reasonable success. Drug discovery in case of molecular medicines has been rather quite successful based on the use of Nanoscience concept. He informed about the efforts being made at Jamia Hamdard to add a number of herbal medicines in nanoform to the existing list of molecular medicines in treating several chronic disease that are not properly taken care of by molecular medicines as yet. Some of the recent significant findings in the field of Nanotechnology in Human Health Care were also presented in the lecture to highlight the importance of understanding the interfaces at nano levels as mentioned above.

### Memorandum of Understanding : IETE and CII

The members of the Institution of Electronics and Telecommunication Engineers (IETE) and Confederation of Indian Industry (CII) met on 19 Feb 2008 at IETE Hqs,



Meeting between IETE and CII representatives at IETE Hqs, New Delhi.

New Delhi, showing desirability of entering into memorandum of understanding. CII works to create and sustain an environment conducive to the growth of industry in India, partnering industry and government alike through advisory and consultative processes. It is a non-governmental, not-for-profit, industry led and industry-managed organization playing a proactive role in India's development process. IETE, on the other hand, is a leading professional society out-and-out devoted to the advancement of science and technology of Electronics, Telecommunication and IT through its basic engineering and technical education programmes for human resource development. The areas found common for co-operation, understanding and building relationship between these two organizations were that IETE could offer CII members of industry trained manpower in the field of Electronics, Telecommunication and IT; provide training to the existing employees of the CII industry members in the specialized area of their requirement; undertake joint technical programmes with CII in the areas of mutual interest, IETE and CII could together provide opportunity to the respective members to participate in programs of mutual interest on reciprocal basis.

Shri Vikram Tiwathia, Chief Information Officer from CII, expressed his keenness in accelerating the agreement process and asked IETE to develop industry-oriented syllabus to enable an engineer work for the need of any specific industry. Lt Gen A K Agarwal, PVSM (Retd), Chairman of Industrial Coordination Committee (ICC), welcomed the suggestion and assured to offer specialized modules of Industry Specific courses as "Optional Modules" to the batches of students for the particular industry.

### IETE and Exhibitions India Pvt Ltd (EI)

IETE co-sponsored '16<sup>th</sup> Convergence India 2008', an International exhibition and conference, organized by Exhibitions India Pvt Ltd (EI), on March 19-21, 2008 at Pragati Maidan, New Delhi. Shri S Narayana, President IETE was the Guest of Honour on the occasion. The other distinguished dignitaries present during the opening ceremony were: Shri Prem Behl, Chairman, Exhibitions India Group; Shri RSP Sinha, Chairman & MD, MTNL; Shri Siddhanta Behura, Secretary, Dept of Telecommunications, Ministry of Communications & IT; and Mr Billy Shrikent, CEO Exhibitions India Group. The deliberations of the conference brought out the latest advancements in the IT sector and was very educative and purposeful. It created ample business opportunities for the participants, industrialists and professionals. It has also been agreed upon that both IETE and EI would work together for 17<sup>th</sup> Convergence India



2009, according to an Memorandum of Understanding between Exhibitions India Pvt Ltd & IETE.



Shri Narayana, lighting the ceremonial lamp with other dignitaries at 16th Convergence India 2008, Pragati Maidan, New Delhi.

## NEWS FROM LOCAL CENTRES

### Aligarh

IETE Aligarh centre, organized a two-day National Conference on "Modern Trends in Electronics and Communication Systems – MTECS-2008" in collaboration with Department of Electronics Engineering, AMU, Aligarh during Mar 8-9, 2008. Prof P K Abdul Aziz, Vice-Chancellor, AMU, Aligarh, was the Chief Guest and Dr Shamim Ahmad, Vice-Chancellor, Jamia Hamdard was the Guest of Honour at the Conference. Delegates were from various parts of India, USA, Malaysia and Saudi Arabia. The keynote speakers included Dr Shamim Ahmad; Dr Chandra Sekhar, Director, CEERI, Pilani; Dr Ashok Chandra, Jt Wireless Advisor, Ministry of Communication and Prof M



National Conference on "Modern Trends in Electronics and Communication Systems" in progress

M Jamli, University of Toledo, USA. Invited talks were by the other eminent researchers and technologists. Out of all the received papers only 62 papers were accepted and presented at the conference during ten technical sessions. The conference proceedings on CD were presented to all registered delegates.

### Bangalore

The activities conducted by IETE Bangalore centre were as follows:-

- **10 Feb 2008:** Short-term course on VLSI Analog Layout Design.
- **15 Feb 2008:** Sponsored a one-day seminar "VITAL 2008" (Visually Impaired Technology Assimilation and Learning) at the National Association for the Blind, Karnataka Branch, Bangalore, where an IETE stall was also put up in the exhibition.
- **23 Feb 2008:** First batch of 30 Diploma holders appeared for written test for Bharati Airtel Training at the centre.
- **28 Feb 2008:** Sir C V Raman Memorial Lecture by Shri V Mahadevan, Sc 'H' Head, IRS, PMO, ISRO Satellite Centre, Bangalore, on "Phased Array Antenna for Spacecraft" on National Science Day.
- **03 Mar 2008:** Antenna Test & Measurement Society was inaugurated at Bangalore by Shri R P Ramalingam, Director, Defence Avionics Research Establishment-DARE, DRDO. Shri O P N Calla, President ATMS, presided.
- **06 Mar 2008:** Chief Guest, Shri Giridhar R Joshi, Chairman IETE Bangalore centre, inaugurated the 4th National Conference on "Advanced Image Processing & Networking (NACIPAN'08)" at NEC, Kovilpatti, Tamil Nadu.



Shri Giridhar R Joshi addressing the 4th National Conference on "Advanced Image Processing & Networking" at NEC, Kovilpatti, Tamil Nadu.



- **09 Mar 2008:** Free seminars on VHDL & FPGA design and embedded systems were held with Shri Umesh & Shri Sai Kumar as respective speakers.
- **16 Mar 2008:** Short Term course on Embedded Systems commenced.

### Burdwan

A one-day seminar on "Recent Trends in Information and Communication Technology (ICT)" was organized by IETE Burdwan sub-centre on Mar 01, 2008 to celebrate the National Science Day. Prof Amit Kumar Mallik, Hon'ble Vice Chancellor, Burdwan University, inaugurated and presided over the seminar. The seminar was spread over two sessions. The first session was chaired by Prof A K Bhattacharya, Life Fellow, Head of Dept of USIC & CIF, Burdwan University. The topics covered in the session were on "Role of Bioinformatics in Low Cost Health Care Systems" by Dr K Dalal, Head, Biophysics Dept, AIIMS, New Delhi and "Modern Trends in Ultrasonic Bio-instrumentation" by Prof S Sen, Prof & Head, Microelectronics Div, Saha Institute of Nuclear Physics (SINP), Kolkata. The speakers of the second session included Dr T K De, Chairman, IETE Kolkata centre, Prof D D Sinha, Prof & Head, Dept of Comp Science, Calcutta Univ, Kolkata and Prof B N Biswas, Chairman, IETE Burdwan sub-centre; their topics were: "IT enabled Rural Education", "Software Engineering: Genesis, Present & Future" and "Recent Trends in ICT", respectively. Prof S Sen was the Chairman of the session. The seminar concluded with a vote of thanks.

### Chennai

- A Memorandum of Understanding (MoU) was signed by IETE Chennai centre with Chennai Telephones BSNL on March 31, 2008 for utilizing the expertise and infrastructure of the BSNL in the field of training and dissemination of knowledge to the younger generation of upcoming engineering personnel. BSNL Chennai Telephones, Regional Telecom Training Centre, Maraimalai Nagar, with the above aim and objectives, accepted the invitation to collaborate with IETE to launch new technology based courses and also to share infrastructure and other resources wherever available to maximize their utilization. Shri A Ganesan, Chairman IETE Chennai, and Shri M P Velusamy, Chief General Manager, Chennai Telephones exchanged the MoU on the occasion. Shri G Selvam, GM BSNL and Shri Adam, Principal, RTTC, Maraimalainagar were also present.



MoU being exchanged between IETE Chennai centre and Chennai Telephones BSNL.

- A seminar on "Wireless Links to Multimedia Convergence- A Reality Check" by Prof Mohan Sundararajan, eminent speaker and technical editor, Asian Development Bank, Bangalore, was arranged at the Chennai centre in association with IEEE Wie Affiliated Group, IE (I) and CSI on Feb 27, 2008. The Chief Guest on the occasion was Shri G Selvam, GM (Operations), Chennai Telephones, BSNL, Chennai. Prof S Ramalatha, Head of Dept, ECE, Eswari Engg College also spoke on the occasion. Er A Ganesan, Chairman, IETE Chennai centre, delivered the welcome address and Er Muthuvel, IE, proposed vote of thanks.

### Coimbatore

The activities conducted by the sub-centre :-

- An annual Student Project Contest on Feb 29, 2008 with more than 175 degree and diploma students.



Prize Winning Project "Automatic Railway Gate Control" at the Student Project Contest.



- **Launch of website** of Amrita IETE Students' Forum by President IETE, Shri S Narayana on March 27, 2008.
- Inauguration of a **one-day workshop on "Network Simulator"** (NS2) by Prof K Gangadharan, Chairman of the sub-centre, on March 05, 2008.

### Hyderabad

Prof A J Paulraj, Stanford University, California delivered the 8<sup>th</sup> Prof K K Nair Memorial Lecture on "The Era of Mobile Convergence and Role of WiMAX & LTE" on Feb 23, 2008 at the Hyderabad campus. Prof Paulraj asserted that online payment, mobile payment, e-commerce, online gaming, multiplayer gaming were the real drivers for a new business model for NextGen BB services. He said that social networking & user generated content sharing, in the present era of young India is more by the age group less than 30 plus. Personalized multimedia drives broadband industry or vice versa, e.g. You Tube, Face Book, MySpace, PVR, Personalized Advtg. It is the endusers, who are defining the rules, as they want freedom, mobility and productivity. Convergence of Telecom, Internet and Media is expected to have a profound impact on the evolution of unique BB network architecture and they need to come together to deliver services demanded by broadband customers. The need for Ultra wide Bandwidth and all IP centric services and applications drove technologies like WiMAX & LTE to evolve. He believed that Mobile Broadband was a new 3 dimensional paradigm, i.e. IP, Wireless & Mobility. According to him the key challenges in the evolution of Mobile Broadband needed to be addressed for Wireless BB to be real success in India. Prof Paulraj focused his talk on relevant technologies like WiMAX & LTE, on promises that these technologies had to offer and wireless economics around Broadband & VoIP industry growth with corresponding impact on Indian GDP.

### Jammu

A one-day seminar on "Challenges in Electronics Technologies" was organized at Govt Women Polytechnic, Jammu on Feb 23, 2008. Er B R Verma, Secretary, State Board of Technical Education, J&K was the Chief Guest, while Er N H Malik presided over the function. Er S K Puri, Chairman, IETE Jammu Centre, highlighted the role of IETE in nation development in the inaugural session. The seminar had two technical sessions, one for the experts and other for the students. The speakers include Prof Lalit Sen, Dept of Comp Science, Jammu University, who talked on "Problems & Remedies of handling huge data; Prof Susheel Sharma, Univ of Jammu on "Circuit Simulation" and Prof Parveen Lehana, Hony Secretary Jammu centre, on "The Virus- A Big

Challenge". The seminar ended with vote of thanks by Prof Susheel Sharma, Hony Treasurer, IETE Jammu centre.

### Kochi

A National Seminar on "Information, Communication & Intelligent Systems" was jointly organized by the local centre and Model Engg College, Kochi, during 8<sup>th</sup>-9<sup>th</sup> February, 2008. His Excellency, Shri R L Bhatia, the Governor of Kerala, inaugurated the seminar. Delivering his address he said that it was imperative to get rid of built-in prejudices to rise to the demands of the present age, which is of 'change-a-minute-technology' with an open mind. He lauded the role played by IETE in human resource development of technical manpower in the country and highlighted the importance of such seminars at a juncture when Kerala was poised to make major strides in the IT field. The inaugural function was presided over by Shri M A Baby, Hon'ble Minister for Education & Cultural Affairs, Govt of Kerala. He emphasized the importance of such joint efforts by IETE & educational institutions to bring eminent academicians, scientists, researchers, industrialists, technocrats, Govt representatives, social visionaries and experts from all strata of society on a common platform for deliberations on matters of interest for the growth of IT sector. Shri N Sitaram, Distinguished Scientist, Chief Controller, R&D, DRDO, delivered the keynote address on "Networked Battle Field" during the inaugural function. He said that intelligent information and communications systems were crucial for network-centric warfare, the key feature of which is seamless connectivity through robust communication network. Information overload is the factor that affects cognitive information in a battlefield. It is the relevance, quality, illusion of completeness and interpretation that was important and not the amount of information.



His Excellency, Shri R L Bhatia, Governor of Kerala, lighting the lamp during the inaugural function.



The seminar was divided into five technical sessions. **Intelligent Systems**, chaired by Dr M Wilsey; **Signal Processing**, chaired by Dr A Unnikrishnan; **VLSI and Embedded Systems** by Shri Saju M Nair; **Communications** by Dr E Gopinath and **Research Session Photonics** by Dr Girija Vallabhan. Each session had number of papers and invited talks by respective chairmen of the sessions. The event was given wide coverage by the local press.

## Nagpur

The following activities were conducted :-

- IETE Nagpur centre in association with BSNL, Telecom District, Nagpur, organized a seminar on **"Development of Cellular Technology Beyond 3G"** on March 15, 2008. Shri M G Joshi, Former Member, Telecom Commission, New Delhi, presided over the function. Shri K Naraynan, Principal Gen Manager, Telecom District, Nagpur, was the Chief Guest and delivered the keynote address.
- A technical lecture by Dr D A Deshpande, Director, Computer Studies & Research, VMV College, Nagpur, on **"CMMI- Capability Maturity Model Intergration"** on March 13, 2008.
- IETE Nagpur centre and VMV College Nagpur, jointly organized a Vidarbha Level Project competition titled **"AAVHAN"** for the engineering students at VMV College, Wardhaman Nagar, Nagpur, on March 08, 2008. Adv S J Badani, President **"Nagpur Gujarati Mandal"**, was the Chief Guest. Shri Bhaskar Vyas, Principal of VMV Commerce, JMT Arts and JJP Science College, Nagpur, was the Guest of Honour. Lt Col R M Onkar (Retd), Chairman IETE Nagpur centre, presided.
- A Vidarbha level quiz competition was organized by the IETE Nagpur centre in association with ISF Chapter of Shri Ramdeobaba Kamla Nehru Engg College (SRKNEC) on March 04, 2008. Chairman Nagpur centre, inaugurated the function. The winners of the first prize were Swapnil Pimpale and Ashwin G Balani (SRKNEC); Deepali Moharir and Natasha Parashar of SRKNEC with Akshay Karwal and Sharique Zeeshan of KITS, Ramtek bagged the second prize while Vishakha Pandharipande and Samruddhi Dadhe won the third prize.
- A lecture on **"Laser Angioplasty"** by Dr G G Sarate, Senior Lecturer, Govt Polytechnic Nagpur, was arranged by the centre on January 17, 2008.

## Palakkad

Shri S Narayana, President IETE, inaugurated the extension of premises at Palakkad sub-centre on March 28, 2008. A newly built computer and electronics lab was also inaugurated on the occasion amidst invitees and students. The welcome address was by the Chairman of the sub-centre, Shri C K Haridas. Shri T B Ramkumar, Chairman IETE Palakkad local centre and Shri C K Omprakash, Coimbatore, were the other speakers. The vote of thanks was proposed by Capt (Retd) R Sundaran, Hony Secretary of the sub-centre. Shri S Narayana addressed the students' session and made them aware of the existing facts and requirements of the institution.



Also seen is a section of audience during inaugural & students' session

## Rajkot

To commemorate the opening of IETE Rajkot sub-centre a seminar on **"New Horizons to Process Technology Through Industrial Automation"** by Shri Niketan Lakum MD, Neo Creative Vision Technologies Pvt Ltd Ahmedabad, was arranged on Jan 23, 2008. His lecture was full of modern technologies on industrial automation in various fields of production. Shri C M Devani, Chairman of the centre, delivered the welcome address and Dr C H Vithala proposed the vote of thanks.

## Vijayawada

The Vijayawada local centre and ISTE Student Chapter of Nalanda Institute of Engg & Tech, Sattenapally, Guntur, jointly conducted a one-day national level workshop on **"Modern Trends in Broadcasting (MTB)"** on Jan 23, 2008. Shri P Kalee Prasad, Vice Chairman, Vijayawada centre and Engineer in Doordarshan, Machilipatnam, delivered the lecture giving information on DTH (Direct to Home), Radio Broadcasting, Video Broadcasting, Broadcasting through Cellular & Mobile and Broadcasting through Internet.



## ISF ACTIVITIES

- A workshop on "Advances on High Performance Communications and Networks (AHPCN'07)" at **ISF-College of Engg & Management, Kolaghat**, was organized on Nov 28, 2007. The workshop was spread over 3 technical sessions.
- An **IETE-ISF** was formed at **Babaria Institute of Technology, Varnama**, on Jan 21, 2008. Shri P V Khubalkar, Vice-Chairman, Vadodara centre, was the Chief Guest and Shri L B Potdar, MD, IRC, Vadodara, the Guest of Honour.
- **ISF of Laki Reddy Balireddy College of Engg, Mylavaram**, organized a Guest lecture on "Satellite Communications" by Shri Pammi Kalee Prasad, Vice-Chairman, IETE Vijayawada centre and Engineer in Doordarshan, Machilipatnam, on Jan 22, 2008.
- Shri R Venkatraman, Chairman Hyderabad centre, inaugurated an **IETE Student Forum** at **Ellenki College of Engg & Technology** on Jan 28, 2008. The function was presided over by the College Chairman, Shri E Sadasiva Reddy.
- "Acumen'08", a national level Technical Symposium was organized by **ISF, Kongu Engg College, Perundurai, Erode & Kongu Vellar Institute of Technology Trust** on Jan 29, 2008. Events like technical paper presentation, hardware/software contest, quiz, etc were conducted. A guest lecture on "Future is Yours" by Shri T N Sivakumar Managing Partner, Electronics & Control Corporation, Coimbatore, was also arranged on Feb 08, 2008.
- **Student Forum at Jawaharlal Darda Institute of Engg & Tech, Yavatmal**, organized a state level technical symposium 'Praneta-08' on Feb 03, 2008. The symposium comprised of multiple technical events like project exhibition, paper presentation, technical quiz, poster presentation and Lan gaming.
- **ISF of SRKR Engg College, ECE Dept, Bhimavaram**, organized "CRUX-08", hardware contest during 12<sup>th</sup>-14<sup>th</sup> Feb

2008. Around 70 projects were exhibited in this contest. Some of the top models were: Voice Controlled Model, Low cost Battery Car, Line Follower Robot, Metal Detector, Laser Security System, Ultrasonic Movement Detector, Automatic Plant Irrigator, etc.

- **IETE Student Forum of Charotar Institute of Technology, Changa (CITC)** was formed on Feb 16, 2008. IETE Vadodara centre along with the ISF, organized an expert lecture on "Satellite Communication" by Shri Rajeev Jyoti, ISRO. Shri P V Khubalkar, Chairman Vadodara centre, was the Chief Guest and Shri Rajiv Jyoti, ISRO, Ahmedabad, was the Guest of Honour during the occasion.
- A one-day workshop on "PCB Design and Recent Trends in Electronics" was organized on Feb 18, 2008 by **ISF Army Institute of Technology, Pune**.
- **Inauguration of ISF at Shirdi Sai Engg College, Anekal, Bangalore**, on Feb 20, 2008. Prof C Murali, IETE Council Member spoke on "Trends in Wireless Communications" on the occasion. Shri R A Bhagavan, Hony Secretary, IETE Bangalore, delivered the inaugural and keynote address.
- **ISF and the Dept of ECE of V R Siddhartha Engg College, Vijayawada**, jointly conducted a National Level Technical Symposium on "ElectroFest-08" on 22<sup>nd</sup>-23<sup>rd</sup> Feb 2008.
- A guest lecture on "Digital Video Broadcast Return Channel via Satellite" (DVBRCS) by Shri N G Vasantkumar, Scientist-F, Project Manager (R&D), ISRO, Ahmedabad, was organized at **ISF-Sankalchand Patel College of Engg, Visnagar**, on Feb 23, 2008.
- **ISF at SIES Graduate School of Technology, Nerul, Navi Mumbai**, was opened on Feb 27, 2008, with an inaugural ceremony under the guidance of faculty co-ordinator, Mrs Leena Ladge.
- **ISF of Gayathri Vidya Parishad College of Engg at Visakhapatnam**, was inaugurated by Prof K Raja Rajeswari, Chairperson, IETE Visakhapatnam, on Feb 27, 2008.



Shri Naresh Kumar, Ex Secretary IETE Vadodara centre, addressing the inaugural ceremony at Babaria Institute of Technology, Varnama.



Dignitaries on dais during national conference on Communication Technologies at ISF-GVPCE, Visakhapatnam.



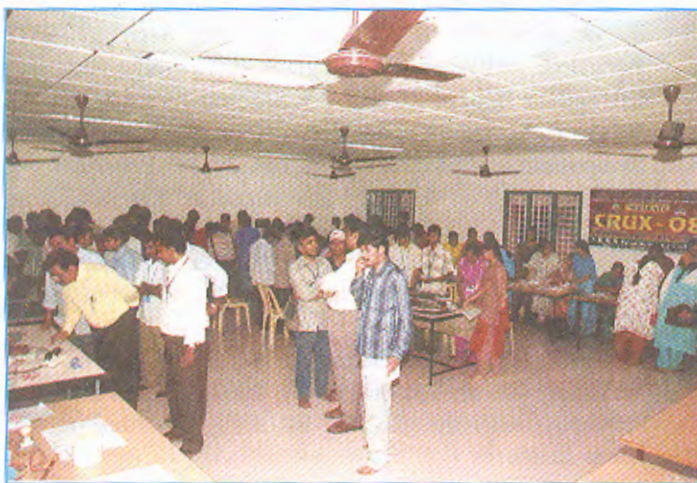
## LOCAL CENTRES & ISF ACTIVITIES



Acumen'08, a national level Technical Symposium was organized by ISF, Kongu Engg College, Perundurai.



State Level Technical Symposium "Praneta-08" in progress at ISF, JEE Yeotmal.



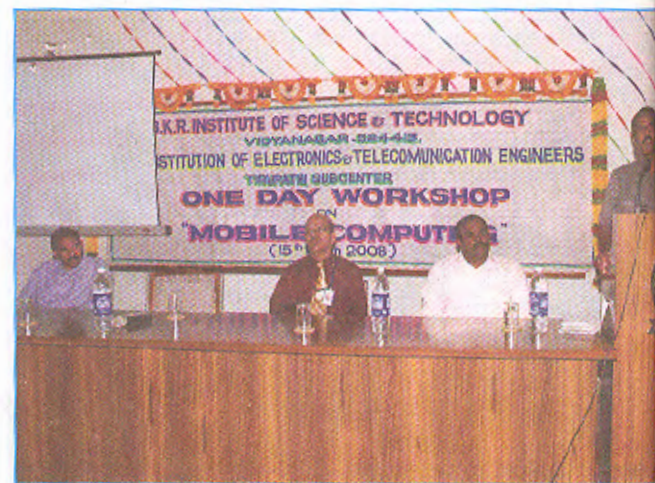
ISF, SRKR Engg College, Bhimavaram, conducted Hardware Contest "CRUX-08".



ISF at Shirdi Sai Engg College, Anekal, Bangalore, being inaugurated.



ISF at SIES Graduate School of Technology, Nerul Navi Mumbai, inaugurated on Feb 27, 2008.



One-day workshop on "Mobile Computing" at ISF, NBKR, Institute of Science & Technology, Vidyanagar



- ISF at the **Dept of Electronics & Communication Engg, Kumaraguru College of Technology, Coimbatore**, was inaugurated on Mar 03, 2008 by Prof K Gangadharan, Chairman, IETE Coimbatore sub-centre.
- A National Level Tech Festival "Electrovyom- 2K8" was organized at **ISF of MVSR Engg College, Nadargul, Hyderabad**, on 12<sup>th</sup>-13<sup>th</sup> March 2008. Students from various Engg colleges participated. Cash prizes and certificates were given to all the selected participants.
- Dr OBV Ramanaiah, JNTU College of Engg, Ananathapur and Shri K Venkata Subbaiah, KSRM College of Engg, Kadapa conducted one-day workshop on "Mobile Computing" on March 15, 2008 at **ISF NBKR Institute of Science & Technology, Vidyannagar, Nellore**.
- A state level Students' Project Contest (Hardware & Software) was organized by **ISF at Dept of Electronics & Communication Engg, KSR College of Engg, Tiruchengode**, on March 17, 2008.
- **ISF, Sinhgad Institute of Technology, Lonavala** conducted a technical quiz, technical visits and some technical lectures on "Trends of Mobile Communication", "Industrial Automation", "Recent Trends in Embedded Technology" and workshops on "PLC & SCADA", "Advanced Embedded System (Robotics)" during the months of Feb & March 2008.
- **ISF, GSSS Institute of Engg & Technology for Women (GSSSIETW), Mysore**, along with Electronic Students Association (AECS), organized a technical fest "Rhapsody 2008" during April 4<sup>th</sup>-5<sup>th</sup> 2008. A technical lecture on "Embedded Systems" by Giridhar Joshi, Chairman IETE Bangalore, centre was also included among various activities like presentations, documentaries, technical quiz, skits, treasure hunt etc. in the festival.

### OBITUARY



**Shri K U Limaye (F0239901)**, former LRDE Director & CCR&D (DRDO), Chairman IRSI-2005, passed away on March 26, 2008 after a brief illness. IETE pay condolences to the bereaved family and pray for his soul to rest in peace.

**Maj Gen R Z Kabraji, AVSM (F009162L)**, a fellow of the Institution passed away on Feb 21, 2008. IETE mourns the sad demise of our senior member and pray to Almighty to give strength to the family members to bear the loss.

### Important Notice for all Members

- All IETE Members are requested to keep IETE HQ, Asstt Secretary (M&PR) updated with their latest addresses and relevant details to facilitate timely delivery of important letters and IETE Journals. All Corporate Members who have not yet given their e-mail address, date of birth and area of specialization may please fill up the proforma given in our Portal/Website [www.iete.org](http://www.iete.org) / [www.iete.info](http://www.iete.info) and send it to IETE HQ. Existing members, who have already given this proforma, are requested to check for their e-mail address, qualification and area of specialization. In case of any change, please send the same in the proforma for correction to update the records of Corporate Members.
- The IETE is also issuing laminated membership card to every Life Member of IETE. All Life Members who have not yet received their Life Membership card are advised to fill up the proforma available in our Website/Portal to enable us to send them Life Membership Card.
- IETE Technical Review (TR) is available on IETE websites [www.iete.org](http://www.iete.org) and [www.iete.info](http://www.iete.info). This is freely downloadable and each issue will be available on websites for six months. Hard copy of TR since Jan-Feb 2007 issue is not being mailed to Corporate and Organizational Members who have not exercised their option by the due date to receive hard copy of the journal. Members' feedback will be of immense value in improving the reach & quality of articles. We also invite budding authors to contribute generously suitable articles and papers on our relevant field and interest for IETE Journal of Education (JE) and IETE Technical Review (TR) as per the latest Guidelines to Authors for publication of Articles available on our website [www.iete.org](http://www.iete.org)
- A Student Interactive Cell (SIC) has been established at IETE HQ (Ground Floor) to attend to the queries of the students.
- All IETE centres /sub-centres are requested to send regularly the inputs of currently conducted technical programmes / activities and other relevant information along with suitable photographs with clear captions and names to the IETE HQ (Asstt Secy (M&PR)) latest by 10<sup>th</sup> of every second month to incorporate these in the IETE Newsletter for bimonthly publication.
- The telephone numbers of IETE Hqs have been changed to 011- 43538800- 899. To contact different sections, dial the desired extension number or wait for the assistance.



**For Advance Information of our Readers and Authors**  
**A New System for**  
**On-Line Submission and Review of Articles for IETE Journals**

Subject of on-line submission & review of articles for IETE Journals has been under consideration for a long time. Keeping the present trend of Internet, automation and computerization at different levels, it was considered prudent and necessary to move from manual hard copy submission and review system to on-line system. The proposed software is expected to help authors, Honorary Editors, Reviewers, Editors-in-Chief and IETE HQs to streamline submission and reviewing process for timely publication of journals. The procurement of software from M/s Manuscript Central (ScholarOne, Inc) has been approved by the Council of IETE and will be operationalized in the near future. Effective date for system will be publicised in IETE Journals and website.

The salient features of the proposed system are as follows:-

- Manuscript Central will create the website <http://mc.manuscriptcentral.com/iete> with a radio button to choose the journal from drop-down list. All the three journals will appear in the list. The authors will choose one of the journals & upload the manuscript.
- Resource templates based on IEEE standard and their approval would be hosted on IETE website and manuscript central system as guidelines to authors for submission of articles on-line.
- The chairpersons of the editorial boards would be the Editors-in-Chief for the three journals, i.e. IETE Journal of Education (JE), IETE Journal of Research (JR) and IETE Technical Review (TR).
- Each journal will have area editors from across the world as empanelled by the respective editor-in-chief. These panels would be periodically reviewed taking into consideration the performance of the panelists.
- The concerned Editor-in-Chief will carry out on-line preliminary review for further processing or out-right rejection with intimation to author. The IETE Hq will keep the record of entire submission, revision, rejection and acceptance details.
- After final acceptance by the Editor-in-Chief, an e-mail will be generated automatically to the Administrator, Publication Section at IETE Hqs who will have the access to the word / pdf document of the final accepted manuscript. The administrator will download it and carry out all editorial changes before it is given to Press for printing of the journals.
- The printed journals will be hosted on IETE website for free downloading by readers / authors and will be available for six months on IETE website & thereafter in our archive.

Any suggestions and feedback are most welcome. Please email to [ietend@gmail.com](mailto:ietend@gmail.com)

**CALENDAR OF EVENTS**

Subject	Date	Venue	Contact
40 <sup>th</sup> World Telecommunication & Information Society Day-2008 on "Connecting Persons with Disabilities : ICT Opportunities for All"	17 May 2008	All IETE Centres/ Sub-centres	The Institution of Electronics and Telecommunication Engineers, HQ, 2, Institutional Area, Lodi Road, New Delhi-110003 Ph : +91 (11) 43538800-99 Fax : +91 (11) 24649429 E-mail : <a href="mailto:ietend@gmail.com">ietend@gmail.com</a> Website : <a href="http://www.iete.org">http://www.iete.org</a> ; <a href="http://www.iete.info">www.iete.info</a>
IGNOU-IETE Joint Seminar on "Distance Education in Bharat Nirman"	June 2008	IETE HQ New Delhi	The Institution of Electronics and Telecommunication Engineers, HQ 2, Institutional Area, Lodi Road, New Delhi-110003 Ph : +91 (11) 43538800-99 Fax: +91 (11) 24649429 E-mail : <a href="mailto:ietend@gmail.com">ietend@gmail.com</a> Website : <a href="http://www.iete.org">http://www.iete.org</a> ; <a href="http://www.iete.info">www.iete.info</a>
4 <sup>th</sup> ELCOMP India -2008, International Exhibition & Conference	10-12 Sept 2008	New Delhi	Shri Rajoo Goel, Secretary General ELCINA Electronic Industries Association of India, ELCINA House 422, Okhla Industrial Estates, Phase-III, New Delhi-20 Ph : +91 11 41615985, 26928053, 26924597 E-mail : <a href="mailto:elcins@vsnl.com">elcins@vsnl.com</a> Website : <a href="http://www.elcina.com">www.elcina.com</a>

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

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