

## FROM PRESIDENT'S DESK



I convey my greetings and good wishes to all the members of IETE fraternity. Our activities of the first quarter have been very satisfying and we are determined to carry the momentum forward.

It gives me great pleasure to inform you about our recent major activities like fruitful discussions during Dr D N Zuckerman, President-Elect, IEEE-ComSoc visit along with his team at IETE Hqs; well attended technical lecture on "High Definition Television" to promote IETE activities for wider visibility and impact; participation at 15<sup>th</sup> Convergence India 2007- an international exhibition and conference held from 20-22 March 2007 at Pragati Maidan, New Delhi; timely declaration of IETE degree and diploma December 2006 examination results; availability of IETE journal (Technical Review) on IETE website for wider access & circulation; a national seminar "CHIP-Focus 2007" on a very topical and interesting theme of VLSI Design and Embedded Systems at Bhopal and successful culmination of 38<sup>th</sup> Mid-Term Symposium on "Emerging Trends in Instrumentation and Process Automation" at Vadodara.

We are now looking forward to another important annual event, World Information Society Day (formerly World Telecommunication Day) to be held on the theme "Connecting the Young: Opportunities of ICT" on May 17, 2007 by all our centres. I expect our centers and members to mobilize their resources in making IETE and its activities more visible and impressive through these opportunities. Seminar on "ICT for Rural Development" was held at Warangal on April 14, 2007 with the same astounding success as for a similar seminar held at Nagpur on "The need for convergence of IT and Farming Technology to reduce the suicides of farmers in Maharashtra". Information and communication technologies have emerged as catalytic agents in churning out innovative new tools enabling us to address our personal, technical and economic challenges. We need to employ IT extensively to make these technologies an integral part of our working, be it in Govt or industry. ICT has also benefited the rural masses by way of higher levels of efficiency and transparency through e-governance, e-choupals, distance learning, mobile telephony and audio-video medium. Our endeavours at IETE should be to assist in narrowing down the digital divide between the rural and urban regions of our country by organizing appropriate conferences, seminars and workshops in the areas of our expertise and by harnessing the abilities and energies of the students in the rural areas.

I seek your support and cooperation in all our ventures and activities. Please do e-mail your views and suggestions to [ietend@bol.net.in](mailto:ietend@bol.net.in)



S NARAYANA



Shri A S Guin, Engineer-in-Chief, Doordarshan & AIR, lighting the inaugural lamp at a technical lecture on "High Definition TV (HDTV)" at New Delhi.



Interactive session of HDTV at New Delhi. On the dais from L→R are Shri R K Gupta, Prof K K Aggarwal, Shri S Narayana, Shri A S Guin and Shri S K Aggarwal.



A view of the distinguished audience at the technical lecture on HDTV.



38<sup>th</sup> Mid-Term Symposium (MTS) in progress at Vadodara.



Prof K K Aggarwal being felicitated during MTS on being elected as President of CSI



Shri S Narayana, President IETE, presenting memento to Shri T S Nanjundaswamy, Gp Dir, System Reliability Group, ISRO. Also seen with them is Dr S Pal, Outstanding Scientist & Dy Dir, ISRO, Bangalore at Mid Term Symposium.



## NEWS FROM HEADQUARTERS

### President Re-elected

We are happy to announce that Shri S Narayana has been re-elected unopposed as President IETE for the year Oct 2007 to Sep 2008.

Our congratulations and best wishes to him.

### 38<sup>th</sup> Mid-Term Symposium of IETE

38<sup>th</sup> Mid-Term Symposium on “**Emerging Trends in Instrumentation and Process Automation**” was organized during April 7<sup>th</sup>-8<sup>th</sup>, 2007 at Vadodara. The two-day event started with lighting of the lamp by the dignitaries on the dais, welcome address by Wg Cdr S R Vasavada (Retd), Chairman Vadodara centre and an overview of the symposium by Shri R K Gupta, Chairman, TPC. Prof (Ms) Anita Dandekar, Zonal Coordinator, briefly talked about activities of centres and sub-centres of the western zone; Shri S Narayana, President IETE delivered the presidential address and Prof K K Aggarwal was felicitated on becoming the President of Computer Society of India. Prof V S Ramamurthy, Chairman, Board of Governors, IIT, Delhi & Homi Bhabha Chair Professor, Inter-University Accelerator Centre, New Delhi, was the Chief Guest, who delivered the keynote speech and released the souvenir. Shri P V Khubalkar, Chairman, Local Technical Committee, proposed the vote of thanks and outlined the technical sessions.

Dr Surendra Pal, Outstanding Scientist, Deputy Director, ISRO, Bangalore delivered the 34<sup>th</sup> Vikram Sarabhai Memorial Lecture on 7<sup>th</sup> April 2007. His lecture was on “**Global Navigation Satellite System (GNSS)- An Indian Scenario**” giving a vast and clear overview of his topic. He commenced with a brief introduction of Prof Vikram Sarabhai and then elaborated on the conventional Satellite Technology, which had three applications: Communication, Remote Sensing and Scientific Studies. The latest one added to this list was Satellite Based Navigation also referred as Satellite Navigation/ Global Positioning System and lately termed as Global Navigation Satellite System (GNSS). With the technological advancements taking place in mobile communications, controls, automobiles, aviation, geodesy, geological survey, military operations, precision farming, town planning, banking, weather predictions, power grid synchronization, etc, though having different domains, they have one thing in common for their future; i.e. Precise-position, Timing and Velocity (PVT)-information, which could only be provided by Global Navigation Satellite System. Dr Pal described GNSS as a vast system of systems, providing global positioning, navigation and timing information to scores of users on land, seas, air

and even in space. His talk traced the history of navigation, evolution of navigation satellites, three present constellations and a world scenario in that direction. Talking of Indian significant steps in this direction he informed about SBAS system with GAGAN and deployment of its own Regional Navigation Satellite Constellation (IRNSS). Dr Pal also talked about various GNSS connected aspects, their applications and the Indian perspective. He concluded his talk underlying the importance and influence of GNSS in measurement of space and time, which he said was needed almost in all activities of life.

19<sup>th</sup> Lal C Verman Award lecture on “**Exploring Opportunities in Competitive Space Business- Redefining R & QA Requirements**” was delivered by Shri T S Nanjundaswamy, Gp Dir, System Reliability Group, ISRO Satellite Centre, Bangalore. He informed how Reliability and Quality Assurance for ISRO programmes have undergone continuous evolution with the objective of keeping in tune with the state-of-the-art system engineering. With the recent entry of ISRO into international arena in spacecraft building and operations, stringent demands of the international customers in all aspects of spacecraft project management are to be met. He talked about the major efforts being made to channelize the in-house practices to conform to customer's quality demands.

The four technical sessions spanning over two days were devoted to “**Emerging Trends in Instrumentation**”, “**IT: Enabler for Process Automation & Instrumentation**”, “**Trends in Process Automation and Applications**” and “**Impact of Modern Instrumentation & Automation on Society & Rural Development**”. The sessions were chaired by Dr Pawan Kapur, Director, CSIO, Chandigarh; Shri V K Ramesh, GGM, ONGC, Vadodara; Air Marshal P K Desai, PVSM, AVSM, VSM, Ahmedabad; Dr Surendra Pal, Dy Dir, ISRO, Bangalore, respectively. The distinguished speakers from well-known industries, Govt sector, R&D organizations, academic institutions exchanged their ideas on the above topics for two days. The event also included Poster sessions on both days.

A technical lecture on “**FM Broadcasting in India**” was delivered by Shri B P Srivastava, Technical Advisor, BECIL, during the Council Meet at Vadodara. Tracing back from the evolution of Radio Broadcasting in India to the present scenario and status, he presented interesting facts in the history of FM Broadcasting. Salient regulatory aspects were also covered in his talk.

### Technical Seminar on High Definition TV (HDTV)

A technical seminar on a topical subject of “**High**

**Definition TV**” was organized by IETE in collaboration with Sony TV and the Sun Broadcasting Pvt Ltd on 24 Feb 2007 at New Delhi. The basic aim was to bring together the engineers, scientists and industrialists onto a common platform to deliberate on this promising and interesting technology. HDTV is a broadcast system that transmits pictures of higher resolution than traditional formats. It provides powerful viewing experience with crystal clear picture quality, more realistic colours, wide screen picture and digital surround sound. HDTV offers real difference in the programmes having fast and random moving objects such sports events, live concerts, music videos etc. The use of HDTV in International sports events is increasing day by day.

The seminar was inaugurated by Prof K K Aggarwal, DF and Past President IETE and presided over by Shri S Narayana, President IETE. Shri A S Guin, Engineer-in-Chief, Doordarshan & AIR delivered the keynote address. The technical session was chaired by Shri D Ray, Chief Engineer, Doordarshan. The eminent speakers who shared their expertise were: Shri Rajat Nigam, DGM, BECIL; Dr Ashok Ogra, Director, Apeejay Institute of Mass Communication & Ex-Vice President, Discovery Channel; Shri Subhendu Dutta, Asstt Manager-BC Products, Sony India Pvt Ltd. A demo of HDTV Equipment was also held.

### Visit of Dr D N Zuckerman, President Elect, IEEE-ComSoc to IETE Hqs

Dr D N Zuckerman, President elect, IEEE-ComSoc; Dr Roberto Saracco, Director, Sister Societies; Prof M V Pitke and Dr R G Gupta of Delhi Chapter of IEEE, visited IETE HQ on March 2, 2007 to discuss various issues related to MoU between IETE and IEEE-ComSoc. Lt Gen A K Agarwal, PVSM (Retd), Vice-President IETE; Brig (Retd) V K Panday, Secretary General IETE and his team participated in the meeting. The meeting was to review the progress & provisions of existing MoU. The issues discussed and emphasized during the meeting were: regular promotional ads in publications of IEEE-ComSoc, publishing of selected articles in each other's journals on reciprocal basis and exchange of complimentary copies of publications on mutually agreed basis.

Special issue of IETE Technical Review (TR) on the theme **"Interactive ECT (Electronics & Telecommunication Technology)- A Focus on Rural India"** : "Call for Papers" for this special issue to be released on the occasion of 50<sup>th</sup> Annual Technical Convention of IETE is being published in TR, Vol 24, No. 2, Mar-Apr 2007. We solicit your support for dissemination of this information for wider response.

## NEWS FROM LOCAL CENTRES

### Aligarh

A workshop on **"Mobile Computing"** was jointly organized by IETE Aligarh centre & Dept of Electronics Engg, AMU, Aligarh on March 17, 2007. It was attended by the delegates from various engg colleges. The eminent speakers on the occasion were Prof Ekram Husain, Dean, Faculty of Engg & Technology, AMU and Prof M T Ahmed, Principal, Z H College of Engg & Tech, AMU. They informed that mobile technology allowed transmission of data via a computer from any location to any remote location without having to be connected to any physical link. The importance of mobile computing had also been highlighted in fields like emergency services, web access and entertainment etc. The other participants on the occasion were Prof Iqbal A Khan, Chairman of the centre, Prof Z A Abbasi, Chairman, Dept of Electronics Engg and Dr Omar Farooq, Reader, Dept of Electronics Engg, AMU, Aligarh. The expert speakers in two technical sessions were: Prof H M Gupta, IIT, Delhi; Prof Lalit Kumar Awasthi, NIT, Hamirpur; Dr Ekram Khan, AMU; Dr Arzad A Kherani, IIT, Delhi and Dr Narottam Chand, NIT, Hamirpur.

### Aurangabad

IETE Aurangabad sub-centre and UGC Instrument Facility Centre of Deogiri College, Aurangabad, jointly organized a regional workshop on **"Microcontroller & its Applications"** on March 17-18, 2007. This workshop was conducted to help Electronics engineers, scientists, teachers and students to update their knowledge both in theory and practice. The Chief Guest, Prof P P Malhotra, Chairman, E-learning & Networks and National Expert on UNIDO, Delhi inaugurated the workshop. Shri Madhukar Rao Muley, Secretary, Marathawada Sikshan Prasarak Mandal, presided over the function. Dr S C Mehrotra, Chairman of the centre; Prof G S Raju, Secretary of the centre; Prof S K Kshirsagar, Chairman IETE Pune centre; Shri R T Deshmukh, Principal of Deogiri College; Dr D R Mane, Dean of Science, Dr B A M University, addressed the gathering. Dr G Rabbani, Hony Treasurer, proposed the vote of thanks.

The technical sessions were dedicated to the theory of 8051 Microcontrollers. Shri H K Gulati, Scientist, Plasma Research Centre, Ahmedabad, delivered the keynote address. During the lab session, each participant was donated a 8051 micro-controller kit (development board with programmes) and a CD containing simulator/ emulator & other programmes apart from instructions so that each participant could practice at home. At the valedictory function, Dr P B Patil, Vice-Chairman, IETE Aurangabad was the Chief Guest. An essay writing competition on "Nano Technology in Science, Engg and Medicine" was organized and the winners were awarded. Dr S N Helambe proposed the vote of thanks.

### Bangalore

- 11<sup>th</sup> Sir C V Raman Memorial Lecture on **“Social Applications of Space Technology”** was delivered by Shri G Madhavan Nair, Chairman, ISRO & Secretary, Dept of Space, Bangalore on Feb 28, 2007 at IETE Bangalore Centre. Shri Nair talked about the ISRO's goals, satellite communications, Edusat & its reach and ISRO's forthcoming ventures. Project exhibitions were also held as a part of National Science Day.
- Under short term courses, Sri Sai Kumar and Prof Cyril Prasanna Raj spoke on RTOS (VX Works), Embedded Systems, VLSI Design, VHDL and FPGA Systems.

### Bhopal

A national seminar on VLSI Design & Embedded System titled **“CHIP-FOCUS-2007”** was organized at Bhopal during 30-31 Mar, 2007, jointly by IETE, OIST and CSI. Shri R K Singh, Executive Director, BHEL, Bhopal, inaugurated the seminar. Shri S Narayana, President, IETE, Shri R K Gupta, Chairman, TPC and Shri Rajiv of NASSCOM were the Guests of Honour. The function was presided over by Shri K L Thakral, Chairman, OIST, Bhopal. The two-day seminar was marked by expert lectures, project ideas, workshop and technical quiz. Seminar was attended by delegates from all over India.

### Chennai

The following activities took place at IETE Chennai centre:-

- A technical lecture on **“Submarine Optical Fibre Cable Systems”** by Shri G Narayanan, DGM, VSNL, Chennai on March 12, 2007.
- The first **International Conference on “Signal Processing Communications and Networking (ICSCN'07)”** was inaugurated by Dr A P J Abdul Kalam, the President of India, at Madras Institute of Technology, Anna University, Chennai on Feb 23, 2007. Shri Surjit Singh Barnala, the Governor of Tamil Nadu, presided over the function. Dr K Ponmudy, Honourable Minister for Higher Education, Govt of Tamil Nadu, Pro-Chancellor Anna University, released the conference proceedings. The objective of the conference was to bring together the academicians, researchers and industry experts in the field of electronics, telecommunications and allied fields to a common forum for constructive exchange of dialogue on theoretical concepts and practical ideas. Engineers, scientists from R&D institutions, faculty members, research scholars and postgraduate students participated in the conference.

### Dharwad

A two-day seminar on **“Wireless Technology: A Road Ahead”** was inaugurated by Prof C Murali, Council Member, during 9<sup>th</sup>-10<sup>th</sup> Mar 2007. His talk was on the recent developments and the future trends in the field of wireless communications. Welcome address was delivered by Dr M V Latte, Chairman of the sub-centre. Prof R C Biradar, Hony Secretary of sub-centre introduced the subject. Resource persons were from industry and academic institutions. The objectives of the seminar were to discuss detailed practical implementation aspects of CDMA, 3G, Cellular, GSM, WiFi, WiMAX along with software radio design and software agent technology to provide smart solutions to wireless networks. The seminar was well attended.

### Hyderabad

Under the Professional Development Programmes, 11<sup>th</sup> U V Warlu Endowment Lecture on **“Aeronautics in India-Present and Future”** by Shri P S Subramanyam, Programme Director (Combat Air Craft) & Director, ADA, Bangalore, was organized by the Hyderabad centre on Jan 27, 2007. Shri R Venkataraman, Chairman, IETE Hyderabad centre presided.

### Jammu

One day seminar on **“Mobile Communications”** on Mar 24, 2007 and one-day workshop was organized by IETE Jammu centre on **“Industrial Automation”** in collaboration with Dept of Electronics, GGM Science College on Feb 27, 2007. The event was well attended and covered by the local media.

### Lucknow

Eastern zone zonal seminar and an exhibition on **“Wireless for Broadband and Multimedia Communications : A Global Perspective”** was organized by IETE Lucknow centre on Feb 23-24, 2007. A curtain raiser was broadcast by Doordarshan and AIR, Lucknow on Feb 22, 2007. The participants in the programme were Shri B B Lal, Chairman, IETE Lucknow centre, Shri Shabbir Ahmad, Past Chairman, Lucknow centre, Shri Mahidhar Pant and Shri Bholanath, EC Members. A press conference was also organized to highlight the activities of the IETE. It was addressed by Shri B B Lal and Lt Gen A K Agarwal, PVSM (Retd), Vice President, IETE. Media representatives from all the leading newspapers, Doordarshan, AIR were present on the occasion.

The Chief Guest, Shri Nirupendra Mishra, Chairman TRAI, New Delhi, inaugurated the seminar. In his inaugural speech he emphasized the use of Wireless for Broadband & role of TRAI for good affordable telecom services to users.



Other distinguished guests were Shri Om Vir Singh, CGMT UP (E), BSNL and Lt Gen A K Agarwal, PVSM (Retd). The four technical sessions spread over two days were on “Trends”, “Wireless Access for Broadband & Internet”, “New Technologies and Spectrum” and “Regulation and Policy Issues”. The esteemed speakers were Shri Mayank Bhargava, M/s Ericsson; Shri Ranjan Ghosh, MTNL, New Delhi; Shri R K Singh, Chief Engg, Doordarshan, New Delhi; Shri N Parmeshwaran, DDG (VAS), DOT, New Delhi; Shri P K Garg, Wireless Advisor to Govt of India, NPC, New Delhi; Shri Raj Yadav, M/s Aperto Networks; Shri Rajesh Prabhakaran of M/s VSNL; Dr Neelam Srivastava, Lucknow; Ms Deepa Tyagi, DDG Mobile TEC, New Delhi; Shri Lokesh Chandani of M/s Nokia and Lt Col Inderjit Singh. Panelists in the valedictory session included Shri Shabbir Ahmad, Shri P K Garg, Shri B B Lal, Shri R K Singh, Shri CBL Srivastava and Maj Gen SPS Grewal.

### Mysore

Shri K S Prakash Rao, Council Member and Zonal Co-ordinator (South), inaugurated the conference on “**Embedded Systems and Applications**” held on March 10-11, 2007. It was jointly organized by IETE Mysore sub-centre and RTTC, Mysore. Shri T V Venkatram, ITS, Senior Principal was the Guest of Honour and Shri Vijayendra, Chairman, sub-centre, presided over the function. The welcome speech was delivered by Shri S S Sridhar, Immediate Past Chairman. The vote of thanks was proposed by Shri K Bhaskar, EC Member. The experts in the field of Embedded Systems who delivered pre-conference tutorials on March 10, 2007 were: Dr V Shyam, Philips Semiconductor, Bangalore; Shri Vajendra Desai, L&T, Mysore; Shri Loganathan, ISM, Bangalore and Shri Venkataraman H S, ALS, Bangalore.

The paper presentations and panel discussions sessions were presided over by Dr H S Shivaram, Past Chairman, on March 11, 2007. Dr C R Venugopal, E&C Dept SJCE, Mysore, was the Chief Guest at the function. Keynote address was delivered by Shri Kashinathan, CEO of ALS, Bangalore. Shri V Jaganathan, RVCE, Bangalore, spoke on “Embedded System”. The conference was useful and informative to all the participants.

### Nagpur

The following events/activities were conducted by IETE Nagpur centre:

1. Shri S Narayana, President IETE, visited IETE Nagpur centre on Sept 7, 2006.
2. Workshop on “**Embedded System Design Using Programmable Logic**” on Sep 12<sup>th</sup>-13<sup>th</sup> 2006.

### 3. Technical lectures on:

- a. “**Mobile Learning**” – Oct 14, 2006 by Dr D A Deshpande, Director, Institution of Computer Studies and Research, VMV College, Nagpur.
- b. “**Five Decades of Electronics**” – Nov 11, 2006 by Dr D A Deshpande.
- c. “**Introduction to Genetic Algorithm**” – Dec 16, 2006 by Prof V P Mahatme, Head, Dept of Computer Technology, KITS, Ramtek.
- d. “**Farmers’ Suicides and Remedies**” – Jan 13, 2007 by Dr D A Deshpande.
- e. “**Navigation Aids**” – Feb 10, 2007 by Er S P Gorowara DIG, BSF (Retd).

4. A Vidarbha Level **Project Competition** titled “**AAVHAN**” for the Engg students was held on March 10, 2007. The rank-wise winners of the project competition were: Neetika Jain & Kartik B of KITS, Ramtek, for their project on “Text to Speech Synthesis in Devanagiri Script”; Rohan Salodkar & Shital Chaware of Dept of Electronics & Comp Science, Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur, for their project on “PC Based Pick and Place Robotic Arm” and Pankaj Chandankhede and Manjurkha Pathan of Jawaharlal Darda Institute of Technology, Yavatmal, for “Application of Genetic Algorithm to the Channel Assignment problem in Mobile Communication”. The KITS, Ramtek, also won the “Late Mrs Shubhashree Shashidhar Best Project Award Trophy” donated by Shri S L Dravekar, Divisional Engg Telecom (Retd) in memory of his daughter.

5. **Late Dr P K Kapre Memorial Lecture** by Shri G S Tuteja, Chief Communication Engg, C Rly, Mumbai on April 2, 2007. Prof T K Bandopadhyaya was the Chief Guest.

### Palakkad

- A lecture on “**Scientific and Technological Heritage of India**” by Dr N Gopalakrishnan, Senior Scientist in CSIR, Trivandrum and Hony Director of Indian Institute of Scientific Heritage was arranged on Feb 19, 2007. Shri C K Haridas, Chairman of the centre, presided over the function and Shri T B Ramkumar, Chairman, IE (India) Palakkad centre, delivered the welcome address. Capt (Retd) R Sundaran, Hony Secretary, IETE proposed the vote of thanks.
- One-day seminar was organized by IETE Palakkad centre at NSS College of Engg on March 15, 2007. Prof K B Bramadattan, CGM, BSNL (Retd) and HOD, Applied Electronics, IES College of Engg, Chittipally presented a paper on “**Modern Trends in**

**Communication Technology**” in the morning session and a paper by Shri K T Suresh Babu, Chief Manager, ITI, Palakkad, on **“Cyber Security”** in the afternoon session.

- A lecture on **“Concepts of Embedded Systems”** was arranged by the centre at ISF, Al-Ameen College of Engineering, Kulapully, Palakkad on March 23, 2007. Shri C K Haridas, Chairman, Palakkad centre, gave the introductory note and Dr Geetha Varma, Asst Prof, NSS College of Engg, Palakkad, presented the paper on the basic concepts, development and futuristic advantages of the Embedded Systems.

### Tirupati

Shri S Narayana, President IETE, inaugurated a national level student paper contest on **“Emerging Areas of Communications, Electronics, Electrical and Information Technology (ELECTROZIUM-07)”** at Tirupati on March 16-17, 2007, jointly organized by IETE Tirupati sub-centre, Dept of EEE, SVU College of Engg and National Atmospheric Research Laboratory (NARL), Dept of Space, Gadanki. Shri S Narayana underlined the need to provide data on weather and rainfall to the rural areas to aid farmers in maximizing productivity and minimizing risks. He enumerated the role of IETE in organizing informative seminars of topical interest and promoting scientific awareness. He opined that such contests brought out the best talent amongst the engineering students for nation development. Dr V K Anandan, Director-in-Charge, NARL, presided over the function. Prof K Lakshmi Narayana, Chairman, MLCC, IETE; Prof D Ravindranath, Principal, SVU College of Engg and Prof G R Reddy, Head, Dept of EEE, were the Guests of Honour. Prof S Narayana Reddy, Convener of the contest informed the participants about selection of 200 papers out of the 500 papers. Around 400 students of various engg colleges and IETE members in and around Tirupati participated in the event. The best papers selected in various fields were :-

**Electronics:** **1<sup>st</sup> Prize-** **“Cancer Nano-Technology”** by M Harikrishna & B Sandeep, SVU, College of Engg, Tirupati.

**II<sup>nd</sup> Prize-** **“Nano-Technology and Cryogens”** by P Sravani & C Senthil Kumar, Sri Kalahasti Institute of Tech, Srikalahasti, AP.

**Communications:** **1<sup>st</sup> Prize-** **“Tactile Sensing System using Artificial Neural Network”** by D Rajesh & C Venkata Ramana, Mepco Schlenk Engg College, Sivakasi, TN.

**II<sup>nd</sup> Prize-** **“Antenna Pointing Accuracy Testing by Phase –Switched Interferometer Technique”** by G C Madhu

& Jafrulla Khan, Sri Kalahasti Institute of Tech, Srikalahasti, AP.

### Electrical:

**1<sup>st</sup> Prize –“A C Avalanche Drive”** by R V Deepti & V Bhargavi, V R Siddartha Engg College, Vijayawada.

**II<sup>nd</sup> Prize-“Neural Network Controller for UPS & Inverter Applications”**, Narayana Engg College, Nellore.

**Computer & IT:** **1<sup>st</sup> Prize-** **“Joystick”** by S Narayanan & K Naveen, DVR & DR HS MIC, College of Tech, Vijayawada.

**II<sup>nd</sup> Prize- “Remote Speaker Recognition in Communication Channel”** by C Ramesh & S Jagadeesh, St Joseph College of Engg, Chennai.

### Vadodara

The centre organized the following events:-

- A lecture on **“Development of Entrepreneurship in Electronics Industries”** by Shri Mahendra Shroff, Chairman, Krutam Electronics, Vadodara, on Jan 6, 2007.
- Lecture on **“Thermal Images Applications”** by Col (Dr) Abraham, SM, EME, Vadodara on Dec 2, 2007.
- A state level paper contest on **“Smart Computing and Communication: SCAC-2007”** was jointly organized by the centre; ISF of MSU, EE Dept, Faculty of Technology & Engineering and IE (India), Vadodara centre, on Jan 28, 2007. Prof S M Joshi, Pro Vice Chancellor, MS University, the Chief Guest of the function, emphasized the need for development of new techniques in the field of communications to meet the challenges to accommodate additional features of communication signals including audio, video and images with bandwidth independence. Wg Cdr S R Vasavada, Chairman of the centre, delivered the welcome address. Prof B S Parekh, Dean, Faculty of Technology & Engineering, encouraged the participants by his speech and Prof A I Trivedi, Head EE, Dept, proposed the vote of thanks.

16 papers on topics such as Applications of Soft Computing, ANN, Fuzzy and Genetic algorithms, DS CDMA, RFID, SPINTRONICS, DC Drives, etc were selected. The contest was divided into two technical sessions. Dr R C Desai, Shri P V Khubalkar, Dr Nishith Bhatt, Prof M P Teredesai, Prof A I Trivedi and Shri V K Shah were the judges on the panel. The first prize was jointly shared by Shri Bhupendra Parmar, LDCE, Ahmedabad for his paper “ Genetic Algorithm

for Multi-User Detection in CDMA based Wireless Communication” with Ms Dharmistha D Vishwakarma, FTE, MSU, Vadodara for “Adaptive Multistage PPIC for DS CDMA system using Fuzzy Logic”. Consolation prizes were awarded to the papers by Shri P I Panchal, GCE, Modasa; Shri M V Makwana, LDCE, Ahmedabad and Shri Vaibhav Gandhi, Nirma Institute, Ahmedabad. Dr R C Desai, Founder Chairman, IETE Vadodara centre, concluded the technical session after giving away the prizes.

- 38<sup>th</sup> Mid Term Symposium on “**Emerging Trends in Instrumentation and Process Automation**” during April 7<sup>th</sup>-8<sup>th</sup>, 2007 was successfully organized by the centre for the very first time.

### Vijayawada

One-day seminar on “**Signal Processing and Its Application**” was organized on March 25, 2007. Dr M C Chandra Mouly, Council Member and Chairman, Board of Research was the Chief Guest of the function. Dr P V Subbaiah, Prof & Head, ECE, Vignan’s Engg College, Vadlamudi, Past Chairman of the local centre was the Guest of Honour. Shri C Venkatramanna, Chairman, IETE Vijayawada centre, presided over the meeting. The eminent speakers of the function were: Dr A Subbarami and Prof E V Krishna Rao, Professor Dept of ECE, Lakkibalireddy College of Engg, Mylavaram; Er N Namassivaya, Asstt Prof, Dept of ECE, MVSR Engg College, Hyderabad and Er P Kalee Prasad, Engg Asstt, Doordarshan, Machilipatnam. The vote of thanks was proposed by Shri N S S V Ramanjaneyulu, Coordinator of the seminar.

### ISF ACTIVITIES

**19 Dec 2006:** ISF at **Faculty of Technology & Engineering, MS University of Baroda** in association with the Dept of Electrical Engg, organized a lecture on “Digital Signal Processing on FPGA” by Shri Hemang Parekh, Signal Processing Engineer, Xilinx, USA.

**26-27 Jan 2007:** **Dept of Electronics Engg, MIT, Anna University, Chennai** in association with IETE conducted two-days workshop on “Electromagnetic Theory Revisited”. Dr M S Narasimhan (Retd) Professor, IIT, Madras, inaugurated the workshop and delivered the keynote address. Prof N Narayana Rao and Edward C Jordan, Prof Electrical and Comp Engg, UIUC, Illinois, USA, presided over the function and delivered invited talks.

**02 Feb 2007:** ISF was inaugurated at **Shri Jayachamarajendra Polytechnic, Bangalore** by Shri R Lakshminarayana Rao, Vice Chairman, IETE Bangalore centre and a talk on “Recent Trends in Broadcasting” was delivered.

**19 Feb 2007:** A seminar on “Wireless Communication and its Application” was organized under the aegis of ISF and TEQIP

by **Electronics Dept of S V Polytechnic College, Bhopal**. Col P M Das delivered the inaugural speech on “Recent Development in Wireless Communication”. The function was presided over by Shri G S Sharma. Other speakers were Mrs Poonam Sinha, UIT, BU and Shri Manoj Kumar, BSNL. A few students also presented their papers in the area of Mobile Communications.

**23 Feb 2007:** ISF at **New Horizon College of Engineering** was inaugurated by Prof C Murali, Council Member and Past Chairman, IETE Bangalore Centre and delivered a technical talk on “Wireless Networks”.

**26 Feb 2007:** ISF, **Dept of EXTC, PRM Institute of Technology & Research, Badnera, Amravati** arranged a invited talk by Dr Vijay K Garg, USA on “Wireless Communications”. Other Executive members present were Dr Pramod B Patil, Prof D T Ingole, Prof Ashish Panat, Prof Prashant Ingole, faculty and ISF members.

**03 Mar 2007:** ISF at **KDK College of Engg, Nagpur** was inaugurated by Lt Col R M Onkar (Retd), Chairman, IETE Nagpur centre. Dr R D Askhedkar, Principal, KDK College of Engg, presided over the function. The dignitaries present on the dais were: Prof D P Singh, Head, Dept of Civil Engg & Dean, Planning and Students Development, KDKCE, Nagpur; Dr D A Deshpande, Dir, ICSR, VMV College, Nagpur; Prof P D Khandait, Head, Dept of Electronics, KDKCE, Nagpur and Shri S L Dravekar, Former Divisional Engg Telecom and Joint Secretary, IETE Nagpur centre. Shri Rohit Agrawal, Chairman, ISF, proposed vote of thanks. A Vidarbha level quiz competition on “Solid State Devices and their Applications” was held on the same date in which team of Shri Vivek Harsney and Shri Sandeep Borkar of SRKNEC, Nagpur was adjudged the winner.

**3-16 Mar 2007:** A technical cum cultural festival “OSCILLATIONS-2007” was organized from Mar 3-16, 2007 by the four ISFs of Mumbai, viz. **Fr C Rodrigues Institute of Technology, Vashi, K J Somaiya College of Engineering, Vidyavihar, Bharati Vidyapeeth College of Engg, Kharghar and S S Jondhale College of Engineering, Dombivli**. Events like Judgement Day, LAN Yard, Technical paper Presentation and Mobile Mania were organized during these days. Winners for each event were suitably awarded.

**5 Mar 2007:** Inauguration of ISF at **Mookambigai College of Engg, Kalamavur, Keeranur, Pudukkottai Dist**. Shri A Ganesan, Chairman IETE Chennai centre, presided and delivered the guest lecture on “Wireless Broadband”.

**17 Mar 2007:** Prof S Jagannathan inaugurated the ISF at **SJB Institute of Technology, Dept of E & C, Bangalore**. He spoke on “Embedded System Design”. On 23 Mar 2007, a workshop was held in which Dr Radhakrishna of RVCE, spoke on “Power Electronics” and Dr Mendiratta on “Power Systems”.

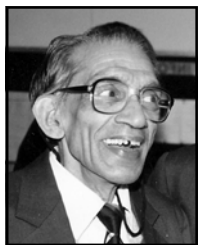
**21 Mar 2007:** ISF at **Sri Ramakrishna Engineering College, Coimbatore** was inaugurated by Prof K Gangadharan, Chairman, IETE Coimbatore sub-centre. Prof K Thinnappan, HOD/EIE, Sri Ramakrishna Engg College presided over the function.







## OBITUARY



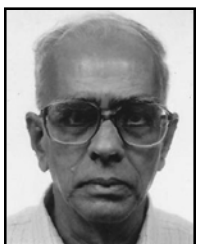
**Prof C S Subramanian (F002422L)**, past IETE Council Member and Vice President, a Life Fellow and founder member of Bangalore centre, passed away peacefully at Bangalore on March 18, 2007. He was also the senior member of many professional organizations with a successful career in BEL and Overseas Communication Services. He had been very active and took keen interest in organizing number of activities for IETE. He will always be remembered as highly disciplined, professional engineer, technologist and a caring human being. He is survived by his wife, daughter and son.

IETE mourns the sad demise of Prof C S Subramanian and conveys profound condolence to the bereaved family.



**AVM V Krishnaswamy (F034837L)**, past Chairman of IETE Chennai Centre, passed away on April 21, 2007 at Chennai. He was the member of various committees and a past Council Member of the institution. He served on various important field and staff assignments of the Indian Air Force. A specialist in Radar, Communications and Avionics, he was awarded Visistha Sewa Medal for technical support for the 1971 Operations. After retirement from IAF, he was the Advisor to some leading group of companies at Chennai. His work was commendable in running a voluntary organization for children with mental disorders. His contribution, selfless dedication and dynamism will be long remembered and his association cherished.

IETE mourns the sad demise of AVM V Krishnaswamy and conveys profound condolence to the bereaved family.



**Shri S A Soundara Rajan (F024609L)**, a senior Fellow Member, passed away on 5 April 2007. He served IETE since 1976 and was credited with enrolling members, setting-up of computer & electronics laboratory. He served AIR & Doordarshan for 34 years and retired as Chief Engineer. He was responsible for active interaction and liaison with industries and sister institutions.

IETE mourns the sad demise of Shri S A Soundara Rajan and conveys profound condolence to the bereaved family.

### Important Notice for all Members

- IETE Technical Review (TR) has been uploaded on IETE websites [www.iete.org](http://www.iete.org) and [www.iete.info](http://www.iete.info). This is freely downloadable and will be available on websites for six months. Hard copy of TR (commencing Jan-Feb 2007 issue) will not be mailed to Corporate and Organizational Members who have not exercised their option to receive hard copy of the journal.
- A Student Interactive Cell (SIC) has been established at IETE HQ (Ground Floor) to attend to the queries of the students. The contact telephone number of the cell is 011-4150 6490 (D), 24631830/40/50-Extn-53 and the e-mail: [sic@iete.info](mailto:sic@iete.info). Students are advised to contact SIC for all queries / information /help. Students visiting IETE Hq are requested to contact Reception and SIC for all kind of information/ help.
- Students who have completed their AMIETE/ DIPIETE may send their resume at [sic@iete.info](mailto:sic@iete.info) for placement assistance.
- All students are to note that the names written in various documents of IETE should be as per their High School certificates. Any discrepancy be brought to our notice immediately along with certified copy of the certificates.
- All IETE local /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 Newsletters for bimonthly publication.
- All IETE Members are requested to keep IETE HQ (Asstt Secy (M& PR)) updated with their latest addresses and relevant details to facilitate timely delivery of important letters and IETE Journals.



Shri G Madhavan Nair, inaugurating the Sir C V Raman Memorial lecture on Feb 28, 2007.



Shri G Madhavan Nair, Chairman ISRO & Secy Dept of Space, Bangalore, delivering the 11th Sir C V Raman Memorial Lecture.



Dignitaries on dais during seminar on "Wireless Technology - A Road Ahead" held on 9th-10th March 2007 at Dharwad sub-centre.



Lt Gen A K Agarwal, PVSM (Retd), Vice President, IETE inaugurating the zonal seminar at Lucknow.



Shri K S Prakash Rao, Zonal Coordinator (South) inaugurating the conference on "Embedded Systems and Applications" on 10th-11th March 2007 at RTTC, Mysore.



Shri C K Haridas, Chairman, Palakkad sub-centre, delivering the introductory speech at Al-Ameen College, Palakkad.





Shri S Narayana, President, IETE, speaking at National Paper Technical Contest at Tirupati centre on March 16-17, 2007.



Shri S Narayana, President IETE, handing over the certificate during ELECTROZIUM-07.



Seminar on "Signal Processing and its Applications" at Vijayawada centre on March 25, 2007.



Shri R Lakshminarayana Rao, Vice-Chairman, Bangalore centre, lighting the lamp to commemorate the inauguration of ISF at S J Polytechnic, Bangalore.



Inauguration of ISF at SJB Institute of Technology, Bangalore.



Seminar on "Wireless Communication & Its Applications" in progress at Bhopal.

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

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