



सह वीर्य करवावहै

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FROM PRESIDENT'S DESK



Nearly two years have passed since I started writing in IETE Newsletter from the President's desk. Henceforth my worthy successor, Lt Gen D P Sehgal, a highly decorated Officer, would take on this noble task.

I feel extremely fulfilled with the work that was undertaken and accomplished during my tenure as IETE President.

Past two years have been growth oriented and highly rewarding for the institution. We commenced year-round Golden Jubilee celebrations in Oct 2002 and increased the visibility of IETE by conducting symposia, seminars, workshops and lectures. We conducted as many as 42 major functions during 2002-04. The number of IETE centres rose to 50 from 42, in January 2004. Membership and ISF activities too, registered substantial increase.

Our primary task is a commitment for human resource development in electronics, telecommunication, computer science and information technology, which we have been undertaking through our examination system. The standards and integrity of our examination system is known all over and we have not only maintained but also enhanced the same by updating the syllabi of our subjects.

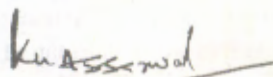
The IETE Awards enjoy a very high reputation in academia and industry. We have further fine-tuned the existing rigorous criteria for nomination & selection by affecting improvements. Now onwards, each awardee would deliver a lecture on the subject, which qualified him for winning the award. This would help in building the knowledge society and also inspire the people in enhancing their self-motivation capability.

IETE publications have also undergone changes in their looks, contents and availability. Contents of IETE Technical Review have been modified to meet the requirement of the readership. Publications are admired by one and all for their content, value and timely availability and our subscriber base has increased considerably.

We have done a commendable job in our research programme. Today, we have two IETE Research scholars working at our premier institutions in emerging fields of wireless and microwave & radar technologies. IETE Research scholar at IIT Delhi is working on 'Millimetre Wave Integrated Circuits Using Non-Radiative Dielectric Waveguide Technology for Radar Applications'. The work done by him has been accepted for publication in "Microwave and Optical Technology Letters", USA. Another IETE research scholar from IIT, Madras is working on "Channel Estimation and Signal Processing for MIMO-OFDM and MC-CDMA Wireless Communications Systems". His work has been accepted for publication in IEEE Signal Processing letters.

We are now pursuing IETE e-learning programme, which has always been on my priority list. The beginning has been made but we have to go a long way before it is implemented. We have to first create contents for each subject in IETE syllabi and then acquire the infrastructure for its delivery. This requirement assumes the highest priority as e-learning is necessary for taking quality education to the villages and remote areas where majority of our people live. The real economic development and growth of our nation is dependent on uprooting the illiteracy from every nook and corner of India.

Lastly, I would like to thank members: Corporate, Student and Organizational for their selfless service to the IETE, which has been my source of strength throughout.


(PROF K K AGGARWAL)

NEWS FROM HEADQUARTERS

47th Annual Technical Convention on Broadband Wireless Technology

Annual Technical Convention (ATC) of the Institution will be held at **Ahmedabad** during **September 25-26, 2004** on Broadband Wireless Technologies. The topics of the four technical sessions will be Broadband Wireless through existing Technologies, Broadband Access through Satellite based Systems, Next Generation Technology for Broadband Access and Regulatory Issues including Spectrum Management for Wireless Broadband.

Newly Elected Council Members of IETE

The following are elected to the Council as members for the year 2004-2007.



Dr R P Bajpai (F050530L) obtained his MSc (Physics) with specialization in Electronics. Subsequently, he did PhD from IIT, Delhi in Solid State Physics and DSc from Hokkaido University, Japan. Presently he is Director, CSIO, Chandigarh. He has published two books and 170 Research papers in national and international journals

and filed 20 patents. He has won many awards some of them are: CSIR National Technology Award 2002, Punjab Ratan, National Academy of Science, India Award 1998, Wistex Foundation International Award- 1994 etc. Dr Bajpai is a member of many National/ International Scientific Societies and Committees and has been Visiting Professor in International Universities. He has been Vice-President and Chairman- Board of Research IETE and Chairman IETE Chandigarh Centre. Dr Bajpai has been actively associated in IETE activities and has contributed to the Institution's overall growth.



Shri R K Gupta (F048346), is presently Engineer-in-Chief of Doordarshan and responsible for overall Planning, System design and development besides operation and maintenance of the entire Doordarshan network. He has held many key positions in AIR and Doordarshan for more than 3 decades and participated in several international conferences. He has been Chairman of National Working Group 6 and Vice Chairman of Technical Committee of ABU. Shri Gupta was Chairman of Panel of judges for ABU. He has won Engineering Excellence Award for the year 2003. He was awarded the most prestigious "Eminent Engineer award" by the Institution of Engineers. He is IETE Council

Member since 2002. Shri Gupta is a Fellow of IE (I) and President of Broadcast Engineering Society (India).



Maj Gen K B Jhaldiyal, AVSM (R060923L), a science graduate from Allahabad University, BE from University Roorkee and M Tech from IIT, Bombay. He served Indian Army with distinction for 30 years and made special contributions towards engineering support for guided missiles, tank electronics, communication

systems and HRD. He was awarded AVSM by the President of India for his distinguished services. Maj Gen Jhaldiyal served IETE as Secretary General for a record period of 10 years (1996-2003) and implemented effective revenue generating measures. He has been instrumental in creating infrastructure and buildings at 20 Centres resulting in record all round growth of IETE. He was responsible for smooth conduct of Golden Jubilee celebrations of IETE and successful projection of Institution at national level.



Lt Gen Davinder Kumar, VSM & B062931L, is presently the Signal Officer-in-Chief at Army Headquarters. He is well known for his expertise in designing and implementing communication and projects for the government and the Army. He was selected by the Prime Minister to develop these aspects in the North East

Madhya Pradesh. He has planned and executed several tactical and strategic projects for the Defence Forces. The President and the Prime Minister have acknowledged his contributions, and he has been conferred National Level Awards by them. He has been responsible for the spread of IT in the Army in a major way.



Shri S Narayana (F026368L), is M Tech in Electronics and Communication Engineering. He is presently Dy Director of NGRI Hyderabad. Shri Narayana started his career in Defence R&D Organization. Subsequently, he joined NGRI and has been responsible for designing several geophysical instruments, which have been produced commercially. He is recipient of many prestigious awards, for his contribution to the field of Electronics and Instrumentation. He served IETE Hyderabad Centre in various capacities including as chairman for two terms. He also served IETE as Council Member for two terms and was its Vice President and Chairman, MLCC. He has contributed immense

towards the growth of local / sub-centres, examination reforms, membership growth, students' interactive forums and zonal coordination activities of IETE.



Shri K S Prakash Rao (F113444L) is Managing Director in M/s Powertel Solutions, Hyderabad. Earlier he was Chief Engineer, APSEB. He has planned and executed 2000 km Optic Fibre Super-Communications highway on APTRANSCO's infrastructure. Shri Rao has undergone specialized training on Total Quality Management in USA. He has served IETE Hyderabad Centre in many capacities including Hony Treasurer and has been associated in organizing programs during Silver Jubilee Year of the centre. He has been actively participating in the activities of IETE Hyderabad Centre since many years.



Shri S A Soundara Rajan (F024609L) is DMIT, FIETE, FBES, Member of IEEE & CSI. He is serving IETE since 1976 and credited with enrolling members, setting-up computer and electronic laboratory. He served AIR and Doordarshan for 34 years and retired from the post of Chief Engineer. He is a nominated member of Academic

Council of Anna University. He has been responsible for good interaction and liaison with industry and sister institutions.

(Dr M L Bala is elected to the Council for the year 2004-06)



Wg Cdr (Dr) M L Bala (Retd) (F047822L) is MSc, PhD, C.Engg (IETE), F-BES. Dr Bala is known for his technical writing. His book "Defence Science" was released by Dr APJ Abdul Kalam, the Hon'ble President of India, the then Scientific Advisor to Raksha Mantri. He has been honoured for his technical writings at

national level. Dr Bala has a long and close association with IETE. He conducted career training during 1982-86 for DEAL Dehradun Technical Assistants for AMIETE. Later on he was Course Coordinator from 1992-96 and conducted "Education through Satellite" programme (1993-96). Dr Bala was Delhi Local Centre's Executive Committee Member (1996-97), Hony Secretary (1997-98), and IETE Council Member (1998-2001), Hony Treasurer (1999-2001). He has been responsible for project COILNet (Content Creation in Emerging Technologies in Indian languages). He instituted an award for meritorious DipIETE girl students at Delhi Local Centre.

Ex-Officio Members of the Council (2004-06)



Shri S K Aggarwal (F015676L), Chairman IETE Delhi Centre, is an Electronics and Telecommunication Engineer with wide ranging experience of working on projects, programs and committees of various Government Departments. Presently he is working in the Director Grade in Dept of IT, MC& IT, New Delhi. He is an IETE graduate and an MBA in Finance. Shri Aggarwal has been serving IETE Delhi for some time.



Shri V Appakutty (F082715L), Chairman IETE Chennai Centre, is working as Director, Doordarshan, Chennai. He has authored seven technical books and is a recipient of Indira Gandhi Sadbhavana Award, besides being a Lawyer and Guest Faculty in Anna University. He is associated with IETE activities for more than a decade.



Brig Ramesh Chandra (Retd) (F069578L), is MTech in Management & Systems and BE in Electronics & Telecommunication. He served the Indian Army for 35 years with distinction and held many prestigious assignments including Deputy Director General Communication Planning, Army Headquarters, where he was responsible for developing communication concepts based on future technology, trials, evaluation and induction of communication equipment and spectrum management for the Army. He has also served as Chief Signal Officer of important areas. At present he is the Plant Head, Hamdard (Wakf) Laboratories, Ghaziabad (UP). He has been associated with IETE for last 15 years as a Life Fellow.



Prof Janardhan Vasudev Dave (F051034L), Chairman IETE Ahmedabad Centre is a BE (Electronics & Communication), ME (Electronics) both from Gujarat University. Presently, he is heading Electronics & Communication Dept of L D College of Engineering, Ahmedabad. He is a senior member of many professional bodies including DOEACC, SAC, Ahmedabad, GPSC for selection of academic posts and Chairman, Board of Study of Electronics & Communication Engineering, Gujarat University. He has served as Hony Treasurer IETE Ahmedabad Centre for the year 2002-2004



Shri C Govardhan (F122819L), Chairman IETE Hyderabad Centre is Electrical Engineering graduate with University 1st rank from Kerala University and has been working in the Department of Telecommunications since 1970. Presently he is Principal General Manager, Hyderabad Telecom District. He has served as Honorary Secretary IETE, Hyderabad during 1981, 1982 and 1984.



Shri M G Kulkarni (F013050L), Chairman IETE Pune Centre, is BE (Telecom) and MSc (Engg) from College of Engineering, Pune. He was Asstt Lecturer in Radio Communication Department, College of Engineering, Pune from June 1958 to Nov 1959. He joined Indian Telecom Service Group A in Dec

1959 and worked in various capacities. He was General Manager and CGM in different Telecom regions from 1979 to '93. Shri Kulkarni was Member (Services) from August 1993 to Feb 1995. He visited many foreign countries and has been member of ITU Study Group. He joined IETE fraternity in 1969 and is a Fellow of IETE since 1982. He was Chairman IETE, Mumbai Centre ('85-'87), and nominated Council Member of IETE 1993-94.



Prof C Murali (F090040L), Chairman IETE Bangalore Centre, graduated from University College, Bangalore and MSc Electronics from BITS, Pilani. Presently he is senior Professor in MS Ramaiah Institute of Technology, Bangalore, where he worked as Lecturer, Reader and rose to the position of Professor. He has served

various Universities as member of BOE, & BOS and also as Chairman. Prof Murali has authored a book on Computer Communication Networks. His areas of interest are Microwave Engineering, Power Electronics, Communication Systems and Computer Networks. He is in the panel of Eminent Academicians. He has served IETE, Bangalore Centre as EC member, Hony Secretary & Vice-Chairman.



Wg Cdr P Prabhakar (Retd) (F030017L), Chairman IETE, Chandigarh Centre started his career at Guru Nanak Dev Engg College, Ludhiana in 1974. He joined Indian Airforce in 1975 and held various appointments. In 1997 he took premature retirement from IAF and joined as the Principal of IITT, College of Engineering, Kala Amb, Himachal

Pradesh. In 1999, he was invited by Shri Sukhmani Group of Institutes to join as Director. He has been instrumental in establishing laboratories, starting MTech Programme and Punjab Technical University, Jalandhar. For last 10 years, Wg Cdr Prabhakar has been actively participating in the activities of IETE Chandigarh Centre.



Prof Hiranmoy Saha (F091182L) Chairman IETE Kolkata Centre obtained B Tech and M Tech in Radio Physics and Electronics from Calcutta University in 1967. He carried out pioneering research in the field of Solar Cells and Solar Photovoltaic Systems in India and was awarded the first PVSEC National Prize

Solar Energy Society of India in 1997. He is an active Research Scientist and has contributed more than 100 technical papers and presentations in the field of semiconductor and Optoelectronics Devices, Integrated Circuits, VLSI Design and MEMS based Sensors. He is currently a senior Professor in the Dept of Electronics and Telecommunication Engineering, Jadavpur University. Prof Saha has served IETE Calcutta Centre earlier too as Hony Secretary and Vice-Chairman. He is also the Ex-Chairman of Solar Energy Society of India Eastern Regional Chapter and associated with a number of Electronics and Solar Photovoltaic Industries as Advisor, Hon Board Member and a Consultant.



Shri G S Tuteja (F057951L), Chairman IETE Mumbai Centre is an Electronic graduate with post-graduate qualifications in Industrial Engineering, specializing in operations planning and control, project management and Management information systems. During his 24 years career with the Indian Railways, he has worked

in diverse geographical territories and managed major projects. Presently, he is working as Chief Signal Engineer in Central Railway. Shri Tuteja is a member of IEE, London. He has presented technical papers on diverse fields in various forums. He is a regular visiting faculty for Indian Railways' prestigious training institutions.

IETE APEX FORUM

"Broadband- The Answer to ICT Development" was the topic of the IETE Apex Forum on July 10, 2004 at IETE HQ. Lt Gen (Retd) D P Sehgal, PVSM, AVSM, VSM, Chairman Industrial Coordination Committee welcomed the congregation and Shri P N Chopra, DIG BSF (Retd)

convenor of the forum introduced and justified the theme of the topic. 'Broadband is being seen as a media of the future. There are unlimited avenues in which broad band services are going to open up different ICT applications such as in the area of entertainment, marketing, freight logistics, transportation, healthcare, tele medicine, financial services, e-commerce transaction, tourism, e-governance, etc' said Shri P K Chopra, in his introductory speech. He expected a boom in the growth of broadband services similar to the mobile telephony.

The Chief Guest, Shri S Lakshminarayanan, IAS, highlighted the importance of Broadband in the delivery of ICT for economic development and growth. He gave an overview of Government's plan and targets for increasing broadband access. He praised engineers both in Govt and private sector for increasing the teledensity of the country ahead of the planned target dates.

Shri S Lakshminarayanan released the Proceedings of "Optimal Utilization of Frequency Spectrum" previously held at IETE Apex Forum.

The panelists who presented their views were Shri R N Agarwal, Former Wireless Advisor, Govt of India, Shri A S Guin, Chief Engineer, Doordarshan, Shri S N Gupta, Advisor TRAI, Shri M Shanmugham, Director All India Radio, Dr Rakesh Mehrotra, Managing Director, Zee TeleFilms and Shri P K Garg Wireless Advisor to the Govt of India.

Shri R N Agarwal, in his address called ICT as the barometer of socio-economic development of society. He said that it was the right time for India to have appropriate penetration of broadband services. He talked about the different facets, applications, affordability, quality of services etc. According to him there should be flexibility in the approach for utilizing different frequency bands for different services.

Shri A S Guin spoke on Broadband & IT in Broadcasting. He talked about the importance of broadband services and its use for TV, HiFi distribution, video retrieval, data transfer services etc. He described one-way and two-way transport systems, limitations and advantages of broadband through wireless, DTT, DTH, DRM, DAB and Cable Satellite.

Shri S N Gupta addressed the emerging trends in ICT and deregulation. Starting with the development trends, he covered evolution of VoIP, last mile technologies, shift from fixed to mobile access, mobile technology trend, convergence, spectrum utilization and telecom deregulation.

Shri Rakesh Mehrotra from Zee Telefilms said that broadband should be for masses and not for only elite. He described its utility in Indian environment and acceptance of western or Indian model. Talking of communication and development of economy in rural India he said everything is doable. He suggested that we should understand the importance of broadband for rural masses, eliminate artificial cost, be technology neutral, convert village PCO's into community commercial hubs, involve NGOs, learn to use TV for delivery of ICT and then finally migrate to TV based ICT services.

Dr Shanmugam's talk centered around Broadband & Broadcasting. The impact of Broadband on broadcasting and its access application, was highlighted.

With the availability of global connection, increased teledensity, mobile telephony, growth of Internet, increased data traffic, broadband is required, which is a faster communication channel said Shri Garg. He also said that many social problems might crop up if technologies are not brought to the rural areas. He favoured the judicious mix of wireless and wireline technologies, wise use of limited spectrum, development of proper contents, traffic affordability before spreading the broadband technologies. He strongly believed that delicensing of the spectrum is not the solution, as the delicensed band cannot be extensively used.

Prof K K Aggarwal, President, IETE summed up the views presented by the panelists. He said broadband is necessary to take ICT to remote, rural and even to urban areas. ICTs are the necessary tool for desired economic growth of people living in every part of our country.

IETE AWARDS

The Board of Recognition of Excellence deliberated the nominations and after in depth consideration, finalized the list of awardees for the year 2004. The following are the awardees for various IETE awards :

- **27TH IETE -Ram Lal Wadhwa Gold Medal** for outstanding contribution in the field of electronics and telecommunication engineering in the broadest sense, during the last ten years. The award consists of a medal and a citation. The recipient is invited to deliver a lecture based on the work leading to the award at the Annual Technical Convention of the IETE.

Awardee : Prof Ashok Jhunjhunwala.

- **15TH IETE-Hari Ramji Toshniwal Gold Medal** for outstanding innovations for application to industry, preferably in the field of electronic instrumentation leading to the development and production of electronic instruments and related systems for use in India and abroad. The award consists of a medal and a citation. The recipient is invited to deliver a lecture on the work leading to the award on a suitable occasion at an IETE centre nearest to the location of awardee.

Awardee : Shri S Narayana.

- **20TH IETE-Bimal Bose Award** for outstanding contribution in the field of power electronics in the broadest sense. The award consists of cash prize of Rs 10,000/-, a citation and a travel subsidy of Rs. 2,000/-. The awardee is invited to present a paper in the field of his specialization that supports the grant of award during the IETE Zonal Seminar at a place nearest to the location of awardee.

Awardee : Prof Sujit Kumar Biswas.

- **18TH IETE-Lal C Verman Award** for outstanding contribution in the areas of standardization, quality control and precision measurements during the last ten years. The award consists of a medal and a citation for the selected awardee and a plaque for the awardees organization. The recipient is invited to deliver an address based on the work leading to the award at the Mid-Term Symposium of the IETE.

Awardee : Shri H S Raina.

- **10TH IETE-Flt Lt Tanmaya Singh Dandass Memorial Award** for outstanding contribution in the field of Avionics, covering education, research, design, development and or production during the last ten years. The award consists of a medal and a citation. The recipient is invited to deliver a lecture on the work leading to the award on a suitable occasion at an IETE centre nearest to the location of awardee.

Awardee : Shri K N Suryanarayana Rao.

- **11TH IETE-Prof K Sreenivasan Memorial Award** for outstanding contribution in teaching electronics and telecommunication engineering in the broadest sense during the last 5 years. The award consists of a medal, cash prize of Rs 2000/- and a citation. The recipient is

invited to deliver a lecture based on the work leading to the award on a suitable occasion at the IETE centre nearest to the location of awardee.

Awardee : Dr Vikram M Gadre.

- **8TH IETE-Prof SVC Aiya Memorial Award** for outstanding contribution in motivating research work in electronics and telecommunication engineering in the broadest sense during the last 5 years. The award consists of a medal, cash prize of Rs. 2000/- and a citation. The recipient is invited to deliver a lecture on the work leading to the award on a suitable occasion at an IETE centre nearest to the location of awardee.

Awardee : Prof T S Rathore.

- **9TH IETE-Prof S N Mitra Memorial Award** for outstanding contribution and leadership role in radio broadcast science and technology in the broadest sense during the last ten years. The award consists of a medal, cash prize of Rs 2000/- and a citation. The recipient is invited to deliver a lecture on the work leading to the award on a suitable occasion at an IETE centre nearest to the location of awardee.

Awardee : Shri Ch VRS Gopalakrishna.

- **5TH IETE-CEOT (94) Award (Biennial)** for outstanding contribution in the field of Opto-electronics in the broadest sense, covering materials, devices, circuits, technologies, systems applications. The award consists of a medal, a citation and a cash prize of Rs. 10,000/-. The recipient is invited to deliver a lecture on the work leading to the award on a suitable occasion at an IETE centre nearest to the location of awardee.

Awardee : Dr B R Singh.

- **7TH IETE-BV Baliga Memorial Award** for distinguished contributions in the field of electronics and telecommunications with emphasis on R&D and industrial development during the past 10 years. The award consists of a medal, a citation, a cash prize of Rs. 10,000/- and a travel grant of a maximum of Rs. 7,000/-. The recipient is invited to deliver a lecture on the work leading to the award on a suitable occasion at an IETE centre nearest to the location of awardee.

Awardee : Shri R K Verma.

- **3RD IETE-N V Gadadhar Memorial Award** for excellence in the field of electronics and telecommunication engineering with emphasis on Mobile Radio Communication. The award consists of a gold medal, a citation, a cash prize of Rs.10,000/- and a travel grant of up to Rs.7,000/-. The award ceremony will be held at Bangalore, organized by IETE Bangalore Centre in a suitable function in the second half of the year.

Awardee : Lt Col P R Menon.

- **2ND IETE-BR Batra Memorial Award** is open to all corporate members of IETE with a standing of 10 years or above, who have significantly contributed to the overall growth and honour of the Institution or have rendered selfless service to the cause of the Institution over the years for furtherance of its basic aim and objectives. The award consists of a gold medal and a citation. The recipient is invited to deliver a lecture on a suitable topic of general interest to the members of the IETE centre nearest to the location of the awardee(s).

Jointly awarded to Dr Samarjit Sengupta and Shri D Rajagopal.

- **6TH IETE-Corporate Award for Performance Excellence in Electronic Systems - 2004** in recognition of outstanding performance and growth rates achieved by an organization / industry / association / institution in the field of electronic systems in the country during the past 3 years through excellence in engineering, R & D, optimum utilization of appropriate technologies, sound management practices and other initiatives. The award consists of a citation and a memento.

M/s Ananth Technologies Ltd, Hyderabad.

- **6TH IETE-Corporate Award for Performance Excellence in Electronic Components - 2004** in recognition of outstanding performance and growth rates achieved by an organization / industry / association / institution in the field of electronic components in the country during the past 3 years through excellence in engineering, R & D, optimum utilization of appropriate technologies, sound management practices and other initiatives. The award consists of a citation and a memento.

M/s Continental Device India Ltd, New Delhi.

- **6TH IETE-Corporate Award for Performance Excellence in Software - 2004** in recognition of outstanding performance and growth rates achieved by an organization / industry / association / institution in the field of software in the country for the past 3 years through excellence in visualization of engineering problems & writing software solutions, optimum utilization of resources, sound management practices and other initiatives. The award consists of a citation and a memento.

M/s Centre for Development of Advanced Computing, Bangalore.

• IETE-IRSI (83) AWARD

For outstanding contribution in the field of Radar Science / Microwave Systems / Navigation / Remote Sensing / Upper Atmospheric Studies / Troposphere / Weather Studies using microwave methods/Materials Research / Electronic Warfare Techniques / Global Positioning System / Detection System etc in the broadest sense. The award consists of a cash prize of Rs.10,000/- a citation and a travel grant of Rs.10,000/- for one awardee to travel to at least three IETE Centres for delivering lectures on the work that qualified for the award.

Awardees : Shri GSK Rao, LRDE, Bangalore & Shri S S Rana, SAC Ahmedabad

Awards for Articles Published in IETE Journals during the year 2002:

Each award consists of a medal and a citation for each author of the articles chosen for award. 105 articles published in IETE Journal of Research, IETE Technical Review and IETE Journal of Education in the calendar year 2002 were sent to experts for evaluation. Based on the assessment of experts Board decided the following:

- **S K Mitra Memorial Award** for Best Research Oriented Paper "Nanostructure Devices": Based on Electron Waveguides : Shalini Garg, R K Sinha & K L Deori, IETE Technical Review Vol.19, No.5, Sep-Oct 2002, pp 269-284.
- **J C Bose Memorial Award** for Best Engineering Oriented Paper "A Novel Filtering Scheme for Impulse Noise Cancellation": G Panda, B Majhi, S K Meher and P K Dash, IETE Journal of Research Vol 48, Nos. 3 & 4, May-Aug 2002, pp 163-170.

IETE ACADEMIC AWARDS

The following students have won prizes mentioned against their names for academic excellence in the examinations held in June 2003 and Dec 2003.

- **AMIETE Council Prize-I** for securing the highest percentage with 60% and above marks and completing Part II of Section A in one attempt without exemptions.

Dec 2003

Computer Science

Harpreet Kaur,
(Mem. No. 161308)

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

June 2003

Computer Science

Aparesh Sood,
(Mem.No. 129861)

Dec 2003

Computer Science

Bilal Afaq Hassan
(Mem.No. 139679)

- **AMIETE Council Prize-III** for securing the highest percentage with 60% and above marks and completing Part II of Section B (except project) in two attempts without exemptions.

June 2003

Electronics & Telecom

Sanjay Bhadra
(Mem.No. 121739)

Dec 2003

Electronics & Telecom

Ms. Sambrita Mondal
(Mem.No. 129893)

- **Smt. Radhabhai Kapri Gold Medal Award** for securing the highest percentage with 60% and above marks in aggregate and completing AMIETE in 4 years without exemptions.

June 2003

Electronics & Telecom

Jatin Mohan Joshi,
(Mem. No. 130659)

Dec 2003

Electronics & Telecom

Gaurav Kumar
(Mem. No. 129907)

- **M N Saha Memorial Award** for Best Application Oriented Paper "Micro cantilever based Biosensors": Abhay Porwal, Mayur Narsude, V Ramgopal Rao and Soumyo Mukherji, IETE Technical Review, Vol 19, No 5, Sep-Oct 2002, pp 257-267.

- **K S Krishnan Memorial Award** for Best System Oriented Paper "Cascade Control of Interconnected System Using Neural Network": S C Saxena, Vinod Kumar and L M Waghmare, IETE Journal of Research, Vol 48, No 6, Nov-Dec 2002, pp 461-469.

- **CDIL Award for Industry** for Best Paper contributed by authors working in Industry "1024-Bit / 2048-Bit RSA Implementation on 32-Bit Processor Public Key Cryptography": Ashith M B, IETE Technical Review, Vol 19, No 4, Jul-Aug 2002, pp 203-205.

- **Gowri Memorial Award** for Best Paper on Topic of General Interest "Computation of Steady-State Response in Power Electronic Circuits": Mahesh B Patil, Mukul C Chandorkar, Baylon G Fernandes and Kishore Chatterjee, IETE Journal of Research, Vol 48, No 6, Nov-Dec 2002, pp 471-477.

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

The only paper selected this year was 'Current Conveyors: Classification, Structures and Applications' by S S Rajput and S S Jamuar, IETE Journal of Education, Vol 43, No 1, Jan-Mar 2002, pp 3-13.

12TH IETE-National Technical Paper Contest 2004

The following papers have been short-listed for oral presentation during the ATC: -

- Wind Speed and Director Ascertaining Unit by Siddharth Priya
- Signals and Systems in Radio Astronomy by Varun Bhalerao and Chaitanya Ghone
- Signals and Systems in Economic Analysis by Vineet Rathi and Sumit Kendurkar
- OFDM - Old Concept yet Next Generation Communication Methods by Nidhi Jain
- Swift Data Transfer Via Optic Fibers by R Rampriya and N Thaiyalambika

DIPIETE

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

June 2003

Electronics & Telecom

Antony Raphael K
(Mem. No. 156154)

Dec 2003

Electronics & Telecom

Vivek A Phadke
(Mem. No. 162821)

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

June 2003

Electronics & Telecom

Shabnam Kumari
(Mem. No. 153041)

Computer Science

Sachin Gupta
(Mem. No. 149706)

Dec 2003

Electronics & Telecom

Raju Bera
(Mem. No. 159553)

Computer Science

Rishiraj Negi
(Mem. No. 164906)

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

June 2003

Electronics & Telecom

Sudipta Banerjee
(Mem. No. 141449)

Dec 2003

Electronics & Telecom

Renjith K S
(Mem. No. 148636)

Computer Science

P Pradeep
(Mem. No. 144837)

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

June 2003

Electronics & Telecom

K S Loganathan
(Mem. No. 135070)

Dec 2003

Computer Science

Ms. Kajal P Vithlani
(Mem. No. 143363)

- **DIPIETE Council Prize-V** for securing the highest percentage with 60% and above marks in aggregate and completing DIPIETE in 3 years without any exemptions.

June 2003

Electronics & Telecom

Gopal Singh Dhami,
(Mem. No. 135571)

Computer Science

Anudeep Jain,
(Mem. No. 135161)

Dec 2003

Electronics & Telecom

Hossain Halder,
(Mem. No. 136285)

Computer Science

Niranjan Kumar K,
(Mem. No. 137860)**NEWS FROM LOCAL CENTRES****Ahmedabad**

Ahmedabad Centre celebrated the 36th World Telecommunication Day jointly with Institution of Engineers (India) Gujarat State Centre at Bhaikaka Bhavan, Law Garden Ahmedabad. Reliance Infocom President, Shri Subodh Saxena, Dr K N Shankara, Director SAC and Dr K S Dasgupta from SAC (ISRO) Ahmedabad were the key speakers on the topic :ICTs Leading the way to sustainable development. IE (I) Chairman Shri Navinbhai Vasoya, Hony Secretary Bipin Mehta, Convenor D S Khuswaha, IETE Chairperson Smriti Dagur, Secretary D K Agrawal also spoke on the topic. Technical presentations were made on the occasion.

Bangalore

The following technical activities were reported from the centre:-

May 4, 2004 – Valedictory function of 25th Summer School in Electronics (SUSIE-04) for students of 9th & 10th was held. Shri G Madhvan Nair, Chairman ISRO and Secretary Dept Space was the Chief Guest. An electronics project

exhibition by students of Summer School was also arranged. Prof B S Sonde, Past President IETE and Former Vice Chancellor, Goa University presided over the function.

May 17, 2004 – Prof B S Sonde delivered the Prof SVC Aiya Memorial Lecture & the World Telecommunication day Lecture on the theme "ICTs: Leading the way to sustainable Development".

Dr Bala Prasanna of AT & T Labs delivered a lecture on "Life Management Skills for Success". It was jointly arranged by IETE Bangalore Centre & IEEE Bangalore section.

May 30, 2004 – Valedictory function of 25th Summer School in Electronics (SUSIE-2004) Batch-II was held. Prof K Babu Rao Council Member & Zonal Co-ordinator was the Chief Guest. An exhibition on electronics projects was also held.

June 27, 2004 – IETE-IRSI (83) 2004 Award presentation function was held. The Chief Guest was Dr V K Koshy, Former CMD BEL and Symposium Chair IRSI-99. Prof C Murali presided.

Hyderabad

- A 5-week training-cum-project work on "Embedded Systems" commenced on June 24, 2004.
- Mini Project of one-month duration on "Embedded Systems" was started on June 20, 2004.

Nagpur

2nd Dr K P Kapre Memorial Lecture was delivered by Prof K K Aggarwal, President, IETE on April 2, 2004. Shri R K Gupta, Engineer-in-Chief, Doordarshan, New Delhi was the Guest of Honour. Prof K K Aggarwal enlightened the audience with his talk on "Software maintenance-Problems & Solutions". He pointed out that the fuzzy approach helps in dealing with software maintenance. The three parameters-RSC, DOQ & UOS and their integration through fuzzy logic lead the software managers in judging the maintenance efforts of the software.

Noida

The Noida Centre building complex in Sector-29, Noida was inaugurated by Prof K K Aggarwal, President, IETE on June 10, 2004. Addressing the gathering, Chief Guest Prof Aggarwal appreciated the right spirit and dedication of the members of its Executive Committee, which made it possible for the Noida Centre to be one of the fastest growing centres. The occasion was also utilized to honour the first batch of

senior fellows / members of the Noida Centre who were presented memento by Shri P K Kaul, IAS, Former Cabinet Secretary and Former Ambassador of India to USA. Certificates were awarded by Mrs Saroj Aggarwal to 17 women students on their successful completion of computer course under IETE Noida Centre Women's Welfare Scheme. Prof K Aggarwal presented mementoes to the IETE Noida centre outgoing Executive Committee members.



Inauguration of Noida Centre, seen (R to L) are : Prof K K Aggarwal, President IETE, Maj Gen Prem Prakash, Zonal Vice President (North), Lt Gen A K Agarwal, PVSM, Chairman MLC, Wg Cdr S C Narang, EC Member, Col T S Gururaj, Treasurer, Shri D S Khokhar, Dy Secretary, and Shri Anil Bhushan, Chairman Student Affairs Committee.

Palakkad

The Sub-centre conducted the seminars on Emerging Trends in Mobile Telecom and Wireless Scenario, VOIP, Computer Networking, and Application of Smart Cards.

Patna

The IETE Patna Centre celebrated the World Telecommunication Day on June 17, 2004. In the inaugural address, Chief Guest Shri Rakesh Babu Principal GM (OPS), Bihar Telecom Circle emphasized the importance of ICT. He expressed that awareness and literacy in ICTs are essential for building information society, which is necessary to bridge the digital divide. He emphasized on affordable access to Internet as a prerequisite for the development of information society. The keynote address was by Shri S K Srivastava, PGM, Patna Telecom District. Other speakers were Shri Arvind Sinha, GM (MS), Bihar Telecom Circle, Dr N K Goswami, Professor, P Singh. Shri S S Chaudhary, GM (Admin & Comr), BSNL, Bihar Telecom Circle, Patna presided over the function. Dr Lalan Singh, Hon'y Secretary, IETE Patna Centre proposed vote of thanks.

Shimla

The Sub-Centre celebrated the 36th World Telecommunication Day on May 17, 2004. Welcome address was by the Hony Secretary, Shri A S Jaswal. Shri K S Sisodia, Shri P S Kalia, Shri Vikas Bhatt, Hony Treasurer of IETE Sub-Centre Shimla and Shri V K Upadhyay, Chairman IETE Sub-Centre Shimla were the speakers on the occasion. Col D P Gupta, delivered a lecture on the development of advance technology and its present and future impact on the telecommunications. The emphasis of the lecture was on the impact of cell-phone technology in development of society.

Vijayawada

The following lectures were delivered at the centre:-

• **"PC Embedded system Real Time Communication"** by Er M V R L Subramanyam, Executive Manager (R&D), M/s Efftronics Systems Pvt Ltd, Vijayawada on May 22, 2004.

• **"Hardware Design Using CPLDs"** by Er Uttam Kumar Agarwal, Manager (R&D), Efftronics Systems Pvt Ltd, Vijayawada on June 5, 2004.

• **"Direct To Home TV (DTH)"** by Er P Kalee Prasad M Tech, Engineering Assistant, Doordarshn Prasar Bharati, Vijayawada on June 19, 2004.

• **"Network Management Systems"** by Shri P Ramalingeswara Prasad MCA, Software Developer, M/s ADP India Dealer Services, Hyderabad on July 3, 2004.

ISF ACTIVITIES

The following activities were performed by these forums :

• ISF JNNCE, Shimoga -

- A seminar on **"HAM Examination"** by Shri Satyapal, Director of Indian Institute of HAM's Bangalore on March 18, 2004.

- A seminar on **"Designing FM transmitter"** by Shri Deepak Chaturvedi on April 22, 2004.

- A seminar on **"Haptic Devices for Virtual Reality"** by Shri Ambrish Kumar on May 27, 2004.

- A seminar on **"Recent Trends in Communication"** by Shri G V Kiran, Research Scholar, IISc, Bangalore on May 29, 2004.

- Competitions like Technical Paper Presentation contest, Hobby Projects Exhibition, Circuit Design competition., Essay writing competition, Technical Quiz contest, Debate were also held in these months.

- A technical talk on **"Communication in Railways"** was delivered by Shri A B Srinivasan (Retd) Chief Engineer, Railways on May 22, 2004. On the same day the 1st Newsletter of the department titled "SAIL" was also released.

• **Sri Sai Ram Engineering College ISF** too plans to hold number of activities including seminars, workshops and industrial visits in the coming months.

• **Dept of Electronics and Communication Engineering, RV College of Engineering, Bangalore**, conducted a miniproject exhibition on June 11, 2004. Around 35 projects pertaining to different areas like VHDL, Power Electronics, Microcontroller based hardware were exhibited. The 1st prize was given to Rohan Kulkarni, Nikhil Gupta, Karthik S and Narayan Balakrishna who implemented a four bit Microprocessor using VHDL. The winners of 2nd prize were Chandrika S, Chaitra, Faisal and Divya for their Microprocessor Based Automatic Plant waterer.

OBITUARIES

It is with deep regret that we inform the passing away of the following members of IETE fraternity.

Maj Gen N Dayal (F010801L)

Shri Bhubaneshwar Singh (F020012)

CALENDER OF EVENTS

Subject	Date	Venue	Contact
<ul style="list-style-type: none"> VLSI Design and Test Workshops 2004 	26-28 Aug 2004	Mysore	Website : http://vlsi.ccrl.nj.nec.com
<ul style="list-style-type: none"> 47th Annual Technical Convention on "Broadband Wireless Technologies" 	25-26 Sept 2004	Ahemdabad	Shri PN Chopra, Chairman Technical Programme Committee, IETE HQ 2, Institutional Area Lodhi Road New Delhi-03 Ph : 011-51504751/24631810 E-mail: membership@iete.org ; ietend@bol.net OR Smt Smriti Dagur Convenor, IETE-ATC 2004 IETE Ahmedabad Centre, 206, Umiya Shopping Centre, Satellite Road, Ahmedabad-380015 Tel : (079)-2675-3938/2673-3931 Fax : (079)-2675-3938 E-mail : iete_ahd@rediffmail.com smritidagur@hotmail.com
<ul style="list-style-type: none"> International Conference on BET-04 Bio-Medial Electronics and Telecommunication 	9-10 Dec 2004	Visakhapatnam	Prof G S N Raju Chairman, BET-04 Dept of Electronics and Communication Engineering College of Engg, Andhra University, Visakhapatnam-530 003 Tel : +91 (891) 276-9647 (O) (R) +91 (891) 255-3502; (M) +91 (891) 255-3502 E-mail : drrajugsn@yahoo.co.in vssnsbaba@yahoo.com
<ul style="list-style-type: none"> 4th International Conference on Trends in Industrial Measurements and Automation 	15-18 Dec 2004	Chennai	The Chairman Organizing Committee TIMA 2004 TIMA Secretariat, CEERI Centre CSIR Madras Complex Taramani PO Chennai-600113 Telefax : +91 (442) 254-2300 Chairman : +91 (442) 254-2281 Fax : +91(442) 254-1889 E-mail: sic@ceerichennai.org tautomation@yahoo.com
<ul style="list-style-type: none"> INDICON-2004, an IEEE India Annual Conference 	20-22 Dec 2004	Kharagpur	www.ee.iitkgp.ernet.in/indicon2004 E-mail : indicon2004@ee.iitkgp.ernet.in
<ul style="list-style-type: none"> 18th International Conference on VLSI Design & 4th Int'l Conference on Embedded Systems 	3-5 Jan 2005	Kolkata	Website : www.isical.ac.in/~visi2005 http://visi.nj.nec.com
<ul style="list-style-type: none"> IEEE International Conference on Personal Wireless Communications (ICPWC 2005) 	23-25 Jan 2005	New Delhi	Dr R G Gupta, Director Ministry of Communications & Information Technology, Department of Information Technology, Tel : + 91(11) 2436-3095 (O) Fax : +91 (11) 2436-5404 E-mail : guptarg@mit.gov.in

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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