



सह वीर्य करवावहै

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IETE NEWSLETTER

FROM PRESIDENT'S DESK



Today technology is driving human activities; be it business, education, research, office management, healthcare or agriculture. Devices, instruments, systems, computers, medical diagnostic equipment etc, all are using the state-of-the-art electronics, which requires continuous updating to ward off obsolescence. IETE Centres all over India are doing an excellent job of knowledge enhancement through symposia, seminars and workshops being organized as part of our Golden Jubilee celebrations. Special issues of IETE journals are being released enabling professionals in the field to contribute and learn to match the changing requirement of society. Technology is providing opportunities and challenges for economic and knowledge improvement. Supporting the trend, we at IETE are prepared to tap the opportunities.

Often I have heard people expressing concern about our country being far behind western world not only in technology but also in the use of computers, telephones and in GDP. We do have talent, enthusiasm, drive and motivation. Our technologists/engineers, scientists, businessmen have done well while working abroad. Why then we are not able to do well in our own country? Is it that we have become dependent on others for everything other than may be agriculture? Or is it that we have not paid adequate attention to identify and correct problem areas? Is it that we are wasting our energies in unproductive work and finding faults with organizations, governments, social set-up etc. etc. I feel resources are never the only problem. Therefore, there is an urgent need to educate people to identify the exact problems threatening the development. In my considered views, spread of electronics, telecommunications, computers & IT can help to empower the people. It will require quality content creation and it's dissemination to all those who are not able to access it because of locational or financial constraints.

IETE Intranet plan envisages Virtual Academy of learning. Let us pool our efforts and get on to the content creation in our fields of specialization. You may select the topic of your choice, for content creation, from IETE syllabi of DIPIETE/ AMIETE and send the same to IETE HQ at ietend@bol.net.in

K K Aggarwal
(K K AGGARWAL)

NEWS FROM HEADQUARTERS

34th IETE Mid Term Symposium

34th IETE Mid Term Symposium on "Wireless & Wireline-Future Scenario" was organized during April 3-4, 2003 at Hotel Taj Lands End, Mumbai. Brig K Balasubramaniam (Retd) Chairman, TPC welcomed the technology savvy dignitaries, participants and apprised them with various programmes planned for Golden Jubilee year. An account of the overview of symposium by the Chairman, IETE Mumbai Centre, Shri G S Tuteja and words of guidance & vision by the IETE President, Prof K K Aggarwal enlightened the audience. Prof Aggarwal said that although Wireless and Wireline represent duality of role, it should, however, be used as an opportunity to solve the problems and resolve conflicts rather than as political weapon. Sufficient and appropriate infrastructure for taking the technology to masses should be built. He said that the services like telephones on demand, SMS through cellular GSM/CDMA technology are already available in major cities of our country and these facilities should be taken to other cities and rural areas of the country. He said that there is a lot of scope for technologies to co-exist and provide synergic implementation of services like telephone, TV, Fax, Internet etc. Capacity with quality has to be created at reduced cost. IETE is ready to offer its services in whichever way government decides to use them for development of society.

The Chief Guest, Padma Bhushan Dr F C Kohli formally inaugurated the symposium by lighting the ceremonial lamp. He released the souvenir marking the occasion and also a special issue of IETE Technical Review on "R&D in Electronics in India". The first copy of IETE Technical Review was handed over to the Guest Editor, Shri V P Sandlas, Chief Controller of DRDO. Dr Kohli complimented IETE for choosing most appropriate and timely topic for the symposium. He talked about his more than three & half decades of association with IETE through participation in IETE fora. Talking about India's performance in software arena, he said that information revolution has provided opportunities for Indians to penetrate into the world market. He drew attention towards low hardware production, low PC penetration as compared to neighbouring countries especially China. China has emerged more successful & competent in computer use and software production for their own country as well. India has written software for others and no doubt has earned much-needed foreign exchange. In spite of having islands of excellence in every field, India has hardly produced any computers whereas China produces 50% of the computer used by them. He praised the work done by Prof Ashok Jhunjhunwala in designing and configuring a corDECT communication system for use in the remote and rural areas. He stressed on designing more software in native languages to increase productivity in industries such as power loom, hotel, tourism, education, agriculture etc.

The 30th Vikram Sarabhai Memorial Lecture was by Prof Ashok Jhunjhunwala, TeNeT Group, IIT M "Drivers of Telecom in India". He said the Indian telecom is all poised for growth and people are jubilant about long distance call charges. Prof Jhunjhunwala enumerated bottlenecks like high capital expenditure per telephone, à-vis urban and rural Indian household affordability. He said that the encouraging aspects are availability of technology, fibre optic backbone network of private companies viz. Reliance, Tata, Bharati etc. He gave business model for rural India consisting of corDECT WLL, optical fibre connected BSNL telephone exchange at every 150 sq. km., reliable supply, service provider like n-Logue who would operate only in rural India, banks like ICICI to provide for initial capital expenditure etc. Concluding his lecture, Jhunjhunwala said that in coming years telecom is expected to take off in a major way doubling India's rural GDP.



34th IETE Mid Term Symposium in progress. Seen on L→R: Shri Matapurkar, Member, Executive Committee, IETE Mumbai, Shri Chairman, IETE Mumbai Centre, Prof Ashok Jhunjhunwala, IIT Chennai, Dr the Chief Guest, Prof K K Aggarwal, President IETE and Brig Balasubramaniam TPC.

The six technical sessions of the symposium were on Wireline Access, Wireless Access Networks, Cellular Broadband Communication, Telecomm-Planning & Research and Communications Convergence. The sessions were chaired by Shri R N Bhardwaj, CGM (T), Maharashtra Circle, Shri V P Chandan, President, Qualcomm India, Air C Motial, MD, Midas Communication, Shri A K Chopra, Railtel, Shri Prithipal Singh, CMD, BSNL and Shri S Srivastav, ED MTNL. The speakers were from well known industries like Tata Tele Services, Qualcomm India, Infocomm, HFCL, Motorola, Tata Broadband, TEJAS. The government sector was represented by TRAI, DoT, A. The latest technologies of WCDMA, SDH, DSL, cor WLL, 4G etc were discussed. Many scientists from various R & D organizations, and academic institutions, experts in industries exchanged their ideas on the above topics over the days. This was followed by a panel discussion on April 4, chaired by Shri Prithipal Singh.

Apex Forum on Virtual Education (e-learning)

Apex forum on Virtual Education (e-learning) was organized at Pune Centre on April 5, 2003 as part of the Golden Jubilee Year celebrations. Shri P N Chopra, Chairman (ICC), briefly introduced the subject of virtual education. Prof K K Aggarwal said that e-learning is essential to make good the shortfall in the required number of seats in formal educational institutions for ever increasing number of students. He said e-learning will also help in improving the quality of higher education as well as to enable self study by especially those students taking distance education courses. Shri R K Arora, Executive Director of C-DAC, delivered the key-note address. He touched upon a number of issues and deliberated on the advantages of e-learning such as accessibility of lessons from best teachers by a large number of students, possibility of studies at convenient time and at a speed suiting individual capabilities, freedom to clear doubts during class room learning, instant examination & evaluation being mechanized, free from subjective factors and enabling students to know their mistakes.

Prof Ram Takawale in his speech came out very strongly in support of e-learning. He dismantled many arguments usually raised against the e-learning. He said that today the situation exists for launch of e-education since formal educational institutions are not able to meet the requirement of ever increasing admission seekers. Today we have all means such as Internet, broadband, WLL for rural communications, education channel in satellite, people to create quality content and technology to take it where ever and who so ever requires

The panel discussion was chaired by Prof Pramod Kale. Three brief presentations were made in order to inform the participants about some new developments in e-learning. Shri Anil Kumar of NCST (C-DAC) Mumbai spoke on "e-learning Present & Future", Shri Zia Saquib of C-DAC, Pune on "e-dhyapeeth" (a software for enabling e-learning) and Shri Anand Bhargava of World Space, Bangalore spoke on "Tools for e-learning". The forum was attended by about 70 persons, including experts, educationists, students, IETE council members etc. It concluded with an optimistic note, favouring introduction of e-learning.



Shri M N Shukla, Chairman Pune Centre addressing the Apex Forum on "Cyber Education (e-Learning)".

New Council Member



Dr Surendra Pal, a Distinguished Fellow of IETE, joins the IETE Council as an elected member (2003-2004). Presently, he is holding the post of Deputy Director, Digital and Communication Area, ISRO Satellite Centre, Bangalore. He joined Indian Space Research Organization (ISRO), after a brief tenure at TIFR and was responsible for starting antenna and microwave activities in the ISRO Satellite centre at the inception. He has been responsible for the development and fabrication of all spacecraft related telecommunication system for India's satellites starting with Aryabhata to present day IRS and INSAT series of spacecraft.

Dr Pal is a Fellow of INAE, INASc, Senior Member, IEEE (USA), MAMTA (USA), etc. He is recipient of many international and national awards and honours. Besides these, he holds Indian, European and international patents for his inventions. Dr Pal has published more than 135 papers in international and national journals. He has been on the editorial board of Journal of Spacecraft Technology. He has edited four special issues of IETE Technical Review on Antennae and Microwaves. He has written books and guided PhD and M Tech students.

NEWS FROM LOCAL CENTRES

Ahmedabad

IETE Ahmedabad centre organized one day seminar on account of Golden Jubilee celebrations on March 15, 2003 at Physical Research Laboratory, Ahmedabad. Welcome address was delivered by Smt Smriti Dagur, Chairperson, IETE Ahmedabad Centre. His Excellency, Shri Sundar Singh Bhandari, the Governor of Gujarat, was the Chief Guest on the occasion. Prof G S Agarwal, Director, PRL, Ahmedabad, Dr K N Shankra, Director, SAC, Ahmedabad and Shri M K Garg, Principal General Manager, Telecom BSNL, Ahmedabad were the Guests of Honour. Prof K K Aggarwal, President, IETE presided over the function. The topics debated during the function were on "e-governance", "Mobile Communications Technology", "Role of IETE in Education", "Role of IETE in Social Aspects" and some new design ideas presented by students were also accommodated. Vote of thanks was proposed by Dinesh Agrawal, Hony Secretary, IETE Ahmedabad Centre.

Allahabad

A workshop on "Mobile Communication" was jointly organized by IETE, CSI and Chamber of Commerce, Allahabad on April 23, 2003 at S N Ghosh Lecture Hall, J K Institute of Applied Physics and Technology, Allahabad.

Aligarh

A function was held to inaugurate the newly acquired building of IETE Aligarh Centre on Feb 2, 2003. The Vice Chancellor AMU, Shri Naseem Ahmad and Prof K K Aggarwal, Vice Chancellor GGS Indraprastha University & President IETE, jointly inaugurated the building at Shah Residency, Medical College Road, Aligarh. Mrs K K Aggarwal inaugurated the computer lab of the centre. Speaking on the occasion Shri Naseem Ahmad said that IETE is rendering yeoman service through social programmes and conduct of examinations enabling needy people acquire higher qualifications equivalent to degrees and diplomas in electronics, telecommunications & information technology. He announced that he would consider the allocation of suitable space within the University premises for the IETE building. Prof K K Aggarwal, President IETE presided over the function. He said that the association of the Faculty of Electronics Engineering, AMU Aligarh with the IETE centre was of paramount importance for its growth and development. He emphasized the need to generate synergy between the formal and informal education systems. Prof Pervez Mutajab, Former Secretary IETE, Aligarh Centre proposed vote of thanks.

Amravati

Prof K K Aggarwal inaugurated Amravati sub-centre of IETE at College of Engineering, Badnera, to function under Nagpur Centre on April 4, 2003. Ms Manisha Verma, Collector, Amravati presided over the function. The other dignitaries, who graced the occasion were Dr S T Deshmukh, ex-Vice Chancellor, Amravati University & Member of AICTE, Shri S S Deshmukh, President, Vidarbha Youth Welfare Society, Principal Shri B D Hiwase, Shri Jagdish Gupta, MLC, IETE Council Members Dr J H Agarwal, Vice-President and Zonal Co-ordinator, IETE Central Zone, Gp Capt H Kaushal, VSM (Retd), Zonal Co-ordinator, IETE West Zone, Maj Gen Prem Prakash (Retd), Chairman, LC&IC and Secretary General Maj Gen K B Jhaldiyal, AVSM (Retd). Amravati sub-centre will cater to the needs of the engineers working in the field of electronics, computer & information technology of this district.

Bangalore

The following activities were reported by the centre:-

- In continuation of the Golden Jubilee year activities, the third one-day workshop, "Software Quality Assurance" was held at Hotel Grand Ashok on Feb 15, 2003. More than 100 participants from laboratories of DRDO, PSUs and private sector organizations attended the workshop. Sri Siva Subramanyam, Project Director Aeronautical Development Agency (ADA) delivered the keynote address.
- 7th Sir C V Raman Memorial Lecture on "Information Entropy" was delivered on Feb 28, 2003 by Prof N Kumar, Director and Professor of Physics Raman Research Institute, Bangalore. Prof K K Aggarwal, President IETE presided over the function. Brig K Balasubramaniam, Chairman TPC, welcomed the guests and Dr K Soundararajan, Chairman IETE Bangalore centre proposed the vote of thanks.
- A one-day workshop on "Optical Communications & Networks" was held on March 15, 2003.

- A series of technical lectures on signal processing, WL cellular, digital filters & transforms were conducted at Bangalore centre.

Cochin

The centre conducted a lecture by Dr K R Suresh N President, NEST Group of companies on "Advances in Communication" at Cochin University of Science & Tech January 29, 2003.

Gwalior

The conference on "Services through IT Enabled (SITES-2003)" was jointly organized by IETE Gwalior s and CSI, Gwalior Chapter during 19th & 20th April 2003 Auditorium, Gwalior. In all, 33 papers were selected for presentation in four different sessions and 23 papers for poster presentation. The areas dedicated to these sessions were on "IT in Bio-Tech", "Reliability of IT Based Solutions", "Media Data Processing", "Communication Technologies".

Hyderabad

The centre arranged the following programmes:-

- 5th Prof K K Nair Memorial Lecture on "Increasing D Radio spectrum and Defence Prospective" by Lt Gen D P VSM, AVSM, VSM, ADC, Signal Officer-in-Chief, A New Delhi on Feb 6, 2003.
- Valedictory function of a short-term course on "Administration" on Feb 27, 2003.
- A sub-centre of IETE at KITS, Warangal was inaugurated by N Divakar, Director, DRDL. He spoke on "Systems Application Development Projects" on the occasion. Prof K K Aggarwal, President IETE presided over the function.
- Prof K K Aggarwal, President IETE inaugurated IETE Hyderabad Centre Web site on March 3, 2003 in a well-attended function. Shri V Premsagar Rao, Chairman, IETE, Hyderabad presided over the function.

Imphal

The IETE Imphal sub centre and the Department of Science & Technology, Government of Manipur jointly organized the Info Tech Exposition (MITEX-2003) cum National Seminar on "e-Governance" at Imphal during the 8-10 March, 2003 marking the Golden Jubilee celebrations of IETE.

MITEX is being organized every year since 2001. Imphal sub-centre with a primary aim of spreading and popularizing the science of computer and information technology in the region and also to disseminate the latest developments in the field. His Excellency, Shri Ved Prakash Marwah, Governor of Manipur inaugurated the seminar and exposition. Dr. M. Nara Singh Minister of Arts & Culture and Sericulture of Manipur presided over the function. Shri Nillababu Oinam, Chairman IETE Imphal presented Golden Jubilee mementos to the dignitaries and proposed the vote of thanks.

There were four sessions on e-Governance. The sessions disseminated success stories of e-Governance, status of e-Governance in Manipur, case studies of e-Governance in Andhra Pradesh

and Karnataka. Papers were also presented on e-Governance infrastructure development and funding. Prof (Dr) J.H Agarwal, Vice-President, IETE presented a paper on "e-Governance for Agriculture - step towards rural prosperity". Brig Balasubramaniam (Retd), Council Member & Chairman TPC, IETE and Maj Gen K B Jhaldiyal, VSM (Retd) Secretary General, IETE also attended the seminar and participated in the panel discussion.



His Excellency Shri Ved Marwah, Governor of Manipur, inaugurating the MITEX-2003. Speaking on is Dr M Nara Singh, Hon'ble Minister of Arts & Culture.

Nagpur

Prof K K Aggarwal, President IETE accorded a status of full-fledged centre to IETE Nagpur Centre on April 4, 2003. Prof Aggarwal, President, IETE appreciated the quality of programmes conducted by IETE Nagpur centre. He said that it is for the first time in the history of IETE that a local centre is being upgraded to a sub-centre (Amravati) is being added to it on the same day. He also appreciated the centre's plan to start a memorial lecture series in the name of (late) Dr P K Kapre, the then IETE President in 1965-67 & Industrial Director of Philips India, who was originally from Nagpur. Hony Secretary IETE Nagpur centre proposed the formal vote of thanks. Dignitaries present included Dr R N Singh, Director NEERI, Immediate Past Chairman, IETE Nagpur Centre, Council Members & Secretary General, IETE.



Seated from L → R : Shri Anil G Joshi, Chairman, IETE Nagpur Centre, Dr J H Agarwal, Vice President IETE, Dr R N Singh, Director (NEERI), Dr K K Aggarwal, President IETE, Gp Capt H Kaushal, Zonal Co-ordinator West, Maj Gen K B Jhaldiyal, Secretary General, IETE HQ.

Navi Mumbai

IETE Navi Mumbai sub-centre organized a two-day symposium & an exhibition on "Emerging Trends in Electronics & Telecommunications" during 18th & 19th April 2003.

Pilani

The Pilani centre organized the following activities at the centre:-

- An invited lecture by Dr Amarjit Singh, Distinguished Fellow, IETE Research Scientist University of Maryland, USA on "Recent Developments on High Power Gyrotrons" on Feb 3, 2003.
- The National Science Day celebrations on Feb 28, 2003 jointly with other scientific societies IPA and SSI Pilani Chapter. Dr S Ahmad, Director CEERI gave the lecture on the Emerging Technologies and Developments on MEMS and Micro Sensors. Shri S N Joshi, Deputy Director CEERI talked on the Developments in Microwave Technology and Recent Trends.
- A four-day programme "Tech Utsav 2003" to commemorate the IETE Golden Jubilee celebrations from March 1-4, 2003. The theme of the Tech-Utsav was ICE-2020: Its Impact on quality of life. The inaugural function was addressed by Col Ratnakar, Chairman BET, Dr P Kapur, Dr P S Bhatnagar. Dr R K Nahar gave the invited talk on the theme. A large cross section of members & students attended the programmes on various days. Invited lectures were on Trends in Communication Technology and on important aspects of Microwave. Besides, poster presentations, cartoon competitions and technical quiz specially for students were held during the Utsav.

Pune

To celebrate the Golden Jubilee Year of IETE, the Pune Centre organized an exhibition "Elecom 2003" on April 5, 2003. The Chief Guest, Prof K K Aggarwal, Vice Chancellor, Indraprastha University Delhi and President IETE inaugurated the exhibition. The Guests of Honour were Shri Umesh Chandra Sarangi, IAS, Divisional Commissioner, Pune and Shri R L Dube, Principal General Manager, BSNL Pune. A special issue of the IETE Pune Centre News Bulletin was released by Shri Dube. Releasing the souvenir Shri Sarangi, appreciated the efforts of IETE to educate the public through the exhibition. Prof K K Aggarwal said that through the Golden Jubilee programmes IETE is spreading technical information on various activities at the national level.

Leading electronic industries in and around Pune participated in the exhibition with their products, which included various electronic components, UPS, telephone instruments with CLI, computer etc. Many people visited the exhibition. IETE Pune had a stall through which information and activities undertaken by IETE & its Pune Centre were given to public.

The Centre also organised three public talks to mark the

Golden Jubilee celebrations. International Service by Shri C K Inamdar, New Service from BSNL and wideband Services by Shri R L Dube, and Initiative to make Pune city self sufficient in Electric Power by Shri S R Ranade. IETE Pune Centre also felicitated the senior members during the occasion.

Vadodara

The activities undertaken by the centre:-

- Prof S G Shah delivered a lecture on "Role of IETE in Education" on March 15, 2003.
- Department of Electrical Engineering, Faculty of Tech & Engg. Dept., MS University of Baroda & IETE Vadodara Sub-Centre, jointly organized Paper cum Presentation Contest for the students.

Vijayawada

Prof K K Aggarwal, President IETE inaugurated the new building of IETE Vijayawada Centre on March 2, 2003. Maj Gen Prem Prakash (Retd), Shri K Babu Rao, Shri S Narayana, Shri Premsagar Rao, Chairman, Hyderabad Centre were present alongwith Shri D Ramakrishna, Chairman Vijayawada Centre & Executive Committee members. After the inauguration a seminar on "March towards Dynamic Engineering Education" was organized. Maj Gen Prem Prakash emphasized the role of IETE in providing dynamic engineering education for training technical students to help and broaden their horizon. He appealed the audience to design specific courses for the use of Industry/ DOT/ Railway/All India Radio/ Doordarshan and use IETE as platform for training.

The new address of IETE Vijayawada centre is :

IETE Vijayawada Centre

Plot No. 107 & 108, Vijaya Soudha Apartments, M G Road
High School Road Cross, Patamata, Vijayawada- 520 010
Ph: 0866-2550974

ISF activities

- A new Student Chapter of IETE at **Raghu Engineering College, Visakhapatnam** was inaugurated on January 31, 2003.
- The IETE Students' Forum of **A C Patil College of Engineering at Koper Khairane, Navi Mumbai** arranged a guest lecture on PCB Design on Feb 8, 2003. IETE student members of Fr Agnel College, Vashi, IG College students and Parshwanath Engineering College students also attended the seminar.
- A Student Chapter was inaugurated at **SVIT, Vasad** on Feb 22, 2003. On popular demand a lecture on "Relevance of knowledge of EMI/EMC in today's context" was delivered by Shri Vijay Shah on this occasion.
- The IETE Students' Forum at **PEC, Chandigarh** organized a function on Feb 27, 2003 in which a magazine "Technetronic"

was released by Dr R P Bajpai, Director CSIO and the Guest of the function. He enlightened the students with presentation on " Nano Scale Technologies Communication". It also organized a quiz contest 'L'espi January 2003, covering technical and general aware questions.

- The IETE Students' Forum at **Sri Sukhmani Institute of Engineering and Technology, Dera Bassi** organized a function " Luminous- 2003" on March 5, 2003. Tech papers were presented on emerging technologies by students from different engineering colleges. Shri Vikas of SSIET, Dera Bassi bagged first Prize Rs 1500/-, Ms Mohita Mangla of SSIET, Dera Bassi bagged the second Prize of Rs 1000/- and Shri Viksat Khanna of Shri Vaibhav Malhotra of SUS College of Engg & Tech Tangori shared the third Prize of Rs 500/-.
- **Seth Jai Prakash Mukund Lal Institute of Engineering and Technology, Radaur (Yamuna Nagar)** organized a Presentation and Quiz Competition on March 25, 2003 as inaugural function of IETE Students' Forum. In presentation, 1st prize went to MMEC Mullana College (Ambala), while SKIET Kurukshetra, stood first in Quiz Contest.
- State level technical Fest SRUSHTI-2K3ISF was conducted at ISF at **Maturi Venkata Subba Rao Engineering College, Nadergul** during 9-10 April 2003. Students from various engineering colleges participated in different events: DIT (Tech paper Fest), MEDHA (Tech Quiz Fest), KPR (Hardware Fest) & TRISHNA (Software Fest). Certificates were distributed to selected students by Shri V Gunasekaran Reddy, Hony Treasurer, IETE Hyderabad Centre.
- **Department of Electronics & Telecommunication Engineering of Fr Conceicao Rodrigues Institute of Technology, Vashi Navi Mumbai** in association with IETE ISF and ETSA organized a 3-day national level symposium on "A Guide through the Maze of Telecommunication (LOOP-2K3)" during April 25-27, 2003.
- Seminars on "Overview of Avionics" and on "Neuro Fuzzy Control System" were organized by the ISF of **Sri Sai Engineering College, Chennai**.

AWARD

Dr D Dutta Majumdar, FCSI, FIETE, FIE, FNA, FIE, FNASc, FTWAS, EIAPR an internationally reputed pioneer researcher and Professor Emeritus of Indian Statistical Institute Kolkata was awarded with the **Professor Jnan Chandra Ghosh Memorial Science Award of 2003** by Science Association of Bengal on Feb 28, 2003.

NOTICE

It has been decided that IETE Newsletter will be published electronically w.e.f January 1, 2004.

**CALL FOR PAPERS: SPECIAL ISSUE OF IETE TECHNICAL REVIEW
ON
ICE 2020: ITS IMPACT ON QUALITY OF LIFE**

The Institution of Electronics and Telecommunication Engineers (IETE) has entered into its 50th Year (Golden Jubilee Year). Already known to you, IETE is a leading professional society devoted to the manpower development and advancement of "Electronics Telecommunication and IT". IETE serves its more than 45,000 members both individuals and industries / organizations through its 43 centres spread all over India and Nepal. IETE has been recognized as a "Scientific and Industrial Research Organization" and "Educational Institution of National Eminence" by Govt. of India.

Telecommunication has gone through rapid changes in technologies of wireline, wireless fixed / mobile, Intranet, Internet and multimedia during last two decades. Sources of entertainment have graduated from AM Radio to FM Radio, analog TV to digital TV, tape / cassette storage devices to CD. Digital modulation and signal processing techniques have improved quality of telecommunication and broadcasting. Development of biotechnology, bio-informatics, nano-science & technology are changing, daily work schedule, healthcare techniques and living standards.

In view of the growing importance of information, communication and entertainment, IETE proposes to bring out a special issue on "ICE 2020-Its Impact on Quality of Life" to report technological developments and expected trends for a decade or two. Some of the topics intended to be covered are:-

Information Technology; Present & Future

Telecommunication Infrastructure and connectivity.

CDMA and WCDMA techniques and their applications.

Wireless fixed / Mobile Internet

& Location based Services GIS.

Healthcare and tele-medicine

e-Banking, e-trading, travel and insurance services.

Biochips, Bio-informatics and agro services.

Policies and Security issues.

- **Technologies applicable to Multimedia.**
- **Mobile, Satellite, Access & Backbone Networks.**
- **Broadband network and telecommunication techniques.**
- **Broadcasting Radio and Television.**
- **Content development for e-Education and Entertainment**
- **Standards, quality, viability and business models.**
- **Virtual reality.**
- **Robotics**
- **Nano Technology**

Conceptual review articles covering the theme, 'ICE-2020 Its Impact on quality of life' without mathematics, are invited. They should describe the latest technologies and future trends in the field. Article should be covered in about 3000 to 5000 words. The manuscript in English should be typed neatly in A4 size paper in double spacing on one side only. It should conform to IETE's Instructions to the Contributors given in January 2003 issue of IETE Technical Review and also as at IETE website: www.iete.org. One hard copy along with a soft copy in MS Word should be sent to Guest Editor at the address given below. An e-mail copy can also be addressed to save time.

The deadline for receipt of complete manuscript: 15 July 2003

Dr H S Sharma

(Guest Editor IETE Technical Review),

Chairman IETE Golden Jubilee Celebrations &
Past President of IETE

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OBITUARY



Shri Y P Singh, (F030749L) a senior Fellow member and Chairman IETE Publication Committee (03) passed away on April 10, 2003 at Hyderabad after a brief illness. He was Honorary Treasurer Council (1995-96 & 2001-02), Secretary of IETE Bangalore Centre, Secretary & Chairman of IETE Centre and Chairman of IETE Publications Committee (1996-98).

Shri Y P Singh contributed to the growth and development of IETE in many ways. He gave tremendous boost to the activities connected with Golden Jubilee celebrations of the institution. He played an important role in giving new looks to IETE Technical Review and IETE Newsletter. Golden Jubilee Commemorative Historical Perspective was meticulously compiled by him personally in a very short time. He possessed diverse skills of marketing, human resource development and international relations. He was an excellent example of commitment, endurance and a competitive spirit. Above all he was a gifted thinker and a storehouse of information.

He served Telecom Sector for over three decades and retired as Vice-President of Siemens Public Communication Network India Ltd. Lately, he held the posts of the Director of Amity Institute of Information Technology (AIIT), Noida, the Senior President of PTC India Foundation and Secretary General of "e-com net" of India. He continued to take part in every activity of IETE till the last days of his life. IETE fraternity will miss Shri Y P Singh for times to come. We all deeply condole the passing away of an illustrious fellow member and a humble soul who strongly believed in human values.

IETE fraternity also extends deepest sympathies and condolences to the bereaved families of the following senior members:

Prof N S Nagaraja (F002417)

Shri G V Sulu (F002671)

Col J C Sareen (M002261L)

CALENDAR OF EVENTS

Subject	Date	Venue	Contact
● Golden Jubilee Symposium on "Trends in Surveillance and Communication"	16-19 June 2003	Dehradun	Dr S C Jain Chairman, IETE Dehradun Centre C/o DEAL Campus, Raipur Road, Dehradun-248001 Tel: (0135) 2787073/ 2787083, Fax: 0135-2787265/ 2787290 e-mail: dealdrdo@del2.vsnl.net.in
● A National Seminar on "Nationwide Cellular Mobile Telecommunication Services"	9-10 Aug 2003	Pune	Shri M N Shukla Chairman, IETE Pune centre, Raghuraj, 62, Indiranagar Erandawana, Pune- 411 004, Tel: +91 020 5449762 Fax: +91 020 5410179, e-mail: ietep@vsnl.net
● 46th ATC on "ICE-2020: Its impact on quality of life"	Sept30-Oct1 2003	New Delhi	Maj Gen K B Jhaldiyal, AVSM (Retd), Secretary General, IETE 2 Institutional Area, Lodi Road, New Delhi 110 003 Tel : +91 (011) 24631810; Telefax : +91 (011) 24649429/24649430 e-mail : ietend@iasdl01.vsnl.net.in; website : http://www.iete.org ; http://www.iete.info
● International Radar Symposium India-2003 (IRSI-2003)	2-5 Dec 2003	Bangalore	Shri D Rajagopal, IRSI Secretariat, PO Box No. 9339 CV Raman Nagar, Bangalore- 560093 Tel: 91-80-524-1666, 91-80-333 1133, Fax: 91-80-5242860, 91-80-333 7231E-mail: irsi@radarindia.com Website: www.radarindia.com