



सह वीर्यं करवावहे

IETE NEWSLETTER

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FROM PRESIDENT'S DESK

Human desire to communicate from anywhere anytime to anyone anywhere anytime has been the driving force towards 3-G systems. Mobile Telephone broke the barrier of physical limitation caused by wire line communication network. This being the first step in achieving Universal Mobile Telecom Service(UMTS), ITU rightly chose Mobile Telecommunication as the theme for the first Telecom Day of this millenium. Mobile telecommunication be it cellular mobile, satellite mobile, paging or trunked radio has shown very high growth rate and tend to go far beyond the fixed line PSTN. Mobile/Communication has linked all far and inaccessible areas, to main stream activities and is now fuelling the new wave of m-commerce.



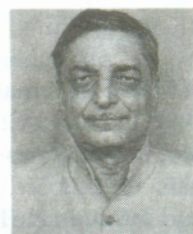
India by passing the IT bill and cyber laws and opening up of long distance telecommunication to private operators has given impetus to the growth of communications in a big way. ISPs have also been allowed to set up their own gateways and purchase bandwidth from international submarine cable operators. All these should culminate in healthy competition and improvement of the quality of service while keeping the cost low. It is expected that the privatisation along with effective utilization of bandwidth and introduction of 3-G technologies will help in faster socio-economic development, and globalisation and also assist India in becoming a leader in IT.

The Institution is going to hold its 43rd ATC during 30Sep-01 Oct, 2000. The theme of this year's ATC has been chosen as "e-commerce". We hope the deliberations in ATC will provide useful inputs for solving security, taxation and payment issues connected with e-commerce. I invite all IETEians to use this opportunity to help the Institution as well as themselves in getting the best.


Cdr (Dr) H S SHARMA, IN (Retd)

NEWS FROM HEAD QUARTERS

President-elect 2000-2001



Maj Gen Yashwant Deva is a decorated soldier, scholar, defence analyst and a prolific writer. He was commissioned in the Corps of Signals in 1953 and served in various positions in India and

abroad including Military Attache' in Afganistan, on the staff of the International Commission for Supervision and Control in Vietnam (ICSC) and India Peace Keeping Force in Sri Lanka. He is a recipient of Ati Vishisht Seva Medal for engineering a wide-ranging and integrated network of highly responsive communications over diverse media, during Operation Pawan in Sri Lanka.

He was senior scholar with the Institute for Defence Studies and Analyses (IDSA) from 1989 till his superannuating in 1993. He writes on defence and technology related subjects. He is an alumnus of the Defence Services Staff College and the National Defence College; a fellow of the Institution of Electronics and Telecommunication Engineers, Institution of Engineers (India), Broadcast Engineering Society, and Telematics Forum of India; and a member of the Indian Science Congress, Computer Society of India, and the Indian Management Association. He was Chairman of the Delhi Centre of the IETE in 1994-95, Honorary Secretary of the Institution in 1996, a member of the Governing Council 95-98 and Hony Editor of the IETE Newsletter 96-98. He has been elected to the Council for the years 1999-2002.

He was a member of the Working Group on Strategic Electronics, constituted under the aegis of the DoE and the DRDO and wrote the draft plan, pertaining to "Strategic Electronics" for the 9th Five Year Plan, since approved by the Planning Commission. He is a member of the National Standards Body of India, a core group under the Bureau of Indian Standards for Quality Systems Certification according to ISO Standards 9000; and is member of the interactive Apex Forum of the IETE, which debates issues concerning national policies relating to telecommunications, electronics and information technology. He has just completed a research project, titled "Emerging Global and National Information Infrastructures and their Security Implications: An Analysis" with the United Services Institution of India, at Prof D S Kothari DRDO Chair.

He has written a monograph titled Dual Use Information Technology: An Indocentric Perspective, published by the IDSA in 1996; and has edited, Multimedia'98, proceedings of an international conference, published by the IETE. His paper, "An Indian Perspective of Information Warfare" won the USI Gold Medal for 1997. He has written extensively on Electronic Warfare subjects in both, research and popular vein. His current interests of scholarly research are E-Intelligence, E-Security, and infowar. He has participated in various seminars and panel discussions, and presented papers at various defence training institutions, USI and the IETE. He regularly appears on radio and TV and writes on the web, newspapers and periodicals on issues of technology and defence related topical interest.

NEWS FROM LOCAL CENTRES

AHEMDABAD

The Annual General Meeting of IETE Ahmedabad Centre was held on 24 June, 2000. Shri N Mohanty, Chairman, of the Centre informed that over 80% of NORAD participants trained at the centre have been employed. He said that membership strength of the Centre has increased. He emphasized the need for upgradation of the facilities to meet the demand of newly introduced subjects in Computer Science and information Technology. He apprised the audience about the smooth conduct of AMIETE, DIPIETE & REB Examinations during the year July 1999- June 2000. Shri N Mohanty, as a Chairman of Organising Committee of 31st IETE Mid-Term Symposium, also, extended his grateful acknowledgement and appreciation to the convenors of three sub Committees and their Colleagues as well as IETE HQ for their special effort to make the symposium a memorable one.

Shri J P Shivhare, Hony Secretary proposed the vote of thanks at the conclusion of AGM.

BANGALORE

The following technical activities were organised :-

- 23 Jun 2000- Seminar on 'Quality Systems-Certification' for telecom industries was jointly organised by IETE Bangalore and UL India Pvt. Ltd.
- 25 Jun 2000- IETE-IRSI(83) Awards were presented to Shri N Divakar, Director DRDL, Hyderabad and Shri Sistla Ravind, Addl Director, LRDE, Bangalore for their outstanding contribution in the field of Radar Science & Microwave Systems for the year 1998-99. Prof R P Shenoy, DFIETE and Distinguished Scientist, DRDO presided over the function and distributed the awards. A brochure on the award presentation was brought out on this occasion.



Prof R P Shenoy presenting the IETE-IRSI(83) Award to Shri N Divakar

A Technical Lecture by Dr K D Nayak, DRDO on 'Trends in Millimeter Wave Components and Systems' was also arranged on this occasion.

- 21, July 2000-ITI Endowment Lecture on 'Telecommunication Using Optical Systems' by Dr E S Rajagopal was organised at ITI Corporate Office Auditorium, Bangalore. Dr Raja Ramanna, Vice Chairman, Council of Management, National Institute of Advanced Studies was the Chief Guest. Air Cmde (Retd) S S Motial, Chairman & Managing Director, ITI Ltd presided over the function.

BHOPAL

The Council of the IETE has decided to upgrade Bhopal Sub-Centre to the status of a Local Centre w.e.f. 01 Jul 2000.

AGM of the Centre was held on 23 July 2000 at MACT,

Bhopal which was attended by over 40 members. Maj Gen K B Jhaldiyal, AVSM (Retd), Secretary General of the Institution was also present in the meeting. Election results of the Centre which were conducted by the IETE HQ, were formally announced during the meeting.

Shri J P Khare, the newly elected Chairman of the Centre assured on behalf of the Executive Committee that they shall spare no efforts on furtherance of the scope of IETE activities and improvement of the infrastructure in the best interest of the institution.

We wish all the best to the Bhopal Centre and extend our heartiest welcome to Shri J P Khare to the Council of the IETE as an ex-officio member.

BHUBANESHWAR

The centre along with the Department of Telecom celebrated the World Telecommunication Day on 17th May 2000. Shri H V Mehta, Chief General Manager, Telecom, Orissa Circle presided over the function. Shri A K Sur, Chief Technical Officer, Reliance Telecom, Calcutta was the Chief Guest. The key-note speaker included Shri P C Sahu, General Manager (Dev.), Orissa Telecom and Chairman, IETE and Shri N K Moharana, Head of Network, Reliance Telecom, Orissa Circle. Shri P K Hota, Director, Telecom and Hony. Secretary, IETE, Bhubaneswar welcomed the delegates and Shri S Maqbool Ali, Vice-Chairman, IETE Bhubaneswar Centre proposed the vote of thanks.

CALCUTTA

- Dr J N Maiti, the Chairman of the Centre welcomed all delegates and participants on the occasion of 32nd World Telecommunication day. The speakers included M F Ansari, CGM, VSNL, Calcutta, Shri D Mitra, Vice President, Usha Martin Telecommunication and Dr R K Bhandari, Scientist, VECC, Calcutta. Prof J P Bandyopadhyay, Hony Secretary informed about the activities of the Centre and gave vote of thanks.
- The library of the Centre has been shifted to Salt Lake Campus.
- Prof Asok Kumar Mukhopadhyay, Fellow of IETE has been nominated as an UNESCO International Expert.
- Dr Tarun Kr De, Fellow of IETE has been selected 'The Best Citizen for India Award, 1999' by International Publishing House and has also been awarded the 'Outstanding Man of the 20th Century' by American Biographical Institute.

CHANDIGARH

IETE Chandigarh organised one day National Conference

on 'Automation in Banks and Financial Institutions' on 22nd June 2000. The Chief Guest Shri N Vittal, Central Vigilance Commissioner inaugurated the conference. Cdr (Dr) H S Sharma, IN (Retd) President, IETE, presided over the function. Shri K Bhargava, General Manager, PNB delivered the key-note address. About 200 delegates/executives of nationalised/private banks, financial institutions, engineers & scientists attended the inaugural session. A Souvenir was also released by the Chief Guest on this occasion.

Dr H S Sharma, President IETE, honoured 8 senior members of IETE and presented mementoes during the inaugural function. The President, IETE distributed certificates to the successful candidates of NORAD programme.

The Chandigarh Library has been expanded. Besides, some training aids have been purchased. Networking and Internet facility is working. During the year, membership growth has shown considerable improvement.

CHENNAI

World Telecommunication Day was celebrated on 17th May 2000. Shri C V Rajan, CGM, Chennai Telephones presided over the function. Eminent speakers spoke on the topic of mobile communications. Certificates were distributed to the candidates who completed 4th batch NORAD Course.



World Telecom Day celebrations. L→R Er T M Gunaraja, Dr N M Parthasarathy, Er N S Ganesan, Er C V Rajan, Er S A Soundara Rajan, Er L Thyagarajan, and Er N Parameswaran

COCHIN

A lecture on ISDN by Saju George, Area Manager, Telecom was organised by the IETE Cochin Sub-Centre on 20th July, 2000. Chairman, Local Centre, Wg Cdr N J Pillai welcomed the audience and Shri Anil Kumar proposed vote of thanks.

The function was attended by more than 40 corporate members and invitees. The lecture generated great enthusiasm and lively discussion.

GUWAHATI

A two-day zonal seminar on 'Information Technology for the Development of the NE Region' was organised by the Guwahati Centre on 12 July 2000. Shri Gunin Hazarika, Hon'ble Minister of Industries, Assam graced the Inaugural function as the Chief Guest. He said that the growth of IT is a determining factor of progress of a country or a state and expressed satisfaction for organising such a seminar devoted to IT for the NE region by the centre for overall prosperity of the region.

Cdr (Dr) H S Sharma, President, IETE stated that the IT as an agent of socio-economic change has been well recognised and its innovative and thoughtful application will generate immense economic and social values.

Dr Shamim Ahmad, Director, CEERI, Pilani in his key note address said that IT when used with caution can do wonders for the society. It improves the quality of life of the people by offering better opportunities in terms of acquisition of knowledge, policy making and business ventures. But by no means is sufficient for poverty elimination. Dr S S Agarwal, Director, CEERI Centre, New Delhi was the Guest of Honour. A paper titled 'Crusoe: Going the Alternative way' was presented by Shri Raman Mohan Das and Shri Barun Chakravorty of the Army School, Narangi. Shri Prasanta Saikia, Hony Secretary, Guwahati Centre offered the vote of thanks.

The seminar was well attended by a host of national & regional level speakers and delegates. It had four technical sessions.



Release of souvenir by the Chief Guest. L→R: Shri P M Dastidar, Shri Gunin Hazarika, Hon'ble Minister of Industries, Assam and Dr H S Sharma

HYDERABAD

The following activities took place at the Hyderabad Centre:

In the month of June, IETE Hyderabad conducted examinations for ALCCS Course & Lab Practice-I Examinations for DIPIETE and AMIETE students.

Annual Day of Students of IETE, Hyderabad Centre was held on 25th June, 2000. The following awards for Academic Excellence in various courses were announced and prizes distributed the same day:-

Prof CVS Rao Gold Medal

P Kranthi- AMIETE

M/s Parasuram & Co. Prize

Birju H Thacker- AMIETE

Institutional Prizes

Sashikiran Alur- AMIETE

V Shashidhar- DOEACC 'A' Level-II Semester

Ms Monisha Bhargava- DOEACC 'B' Level-I Semester

E Venkat Reddy- do- I & II Semesters

B Srinivasa Rao- do- IV Semester

Millenium Prizes

Ms T Sailaja- DOEACC 'B' Level-I Semester

R Satish- DOEACC 'A' Level-II Semester

Eshwar Prasad- DOEACC 'B' Level-I Semester

K Satya Saibaba- DOEACC 'B' Level-II Semester

K Narasa Reddy- AMIETE

B R Vittal- AMIETE

P Kranthi- AMIETE

Donepudy Sudhakar- AMIETE

K Varadarajan- AMIETE

Naresh Pant- ALCCS II & III Semesters

P Kranti Kumar- ALCCS II & III Semesters

Ms D Jaya Sheela- ALCCS II & III Semesters

N Janardhan Reddy- ALCCS IV & V Semesters

E Ravinder- ALCCS IV Semester

J Durga Prasad- ALCCS IV & V Semesters

Amber Roy- ALCCS I Semester

S R Chandrasekhar- ALCCS I Semester

V Ramesh Kumar- ALCCS I Semester

N Satya- ALCCS V Semester

MUMBAI

A Technical Lecture on 'Emerging Trends in Mobile Commerce' by Shri Nitin Mahajan, Manager Applied Technology Group, Tata Infotech Ltd., was arranged by IETE Mumbai Centre on 17th May, 2000 at IIT Mumbai. The lecture was well appreciated by the audience.

NASHIK

The Nashik Sub-Centre's membership has increased to 50 Corporate Members & 59 Student members. The Centre held following activities :

- **Lecture on Mobile Communications:** World Telecom Day celebrations took place at ICWA Hall, Nashik on 17th May, 2000. Shri D N Padegaonkar, Vice Chairman and Shri J C Menaria, Hony Secretary delivered lectures on mobile communication.
- **Launching of IETE website-www.ietenashik.org.in:** Dr Ashok Pradhan, Vice Chancellor Yashwantrao Chavan Maharashtra Open University, Nashik while inaugurating, launching of Nashik sub-centre website on 22/6/2000 said that new methodologies would benefit the distant learners greatly. With internet, course material would be delivered at highest speed. The website was designed and developed by Shri Ketan Padegaonkar and Shri Prasad Kulkarni, IETE Student Members- who were felicitated in recognition of their contribution towards spreading telecommunications.
- **AGM of the Sub-Centre** was held on 30/6/2000.
- **Visit to Sir Vishveshwariya Memorial Engineering College, Sinnar:** On 30/6/2000 Shri J C Menaria, Hony Secretary, Shri Deepak Padegaonkar, Vice Chairman



Launching of IETE website. Seen L→R: Shri Ketan Padegaonkar, Shri B Prasad, Dr Ashok Pradhan and J C Menaria

visited the Engineering College, Sinnar with Prof S V Kharkar, Dr S R Gowarikar along with other members of Pune Centre. The IETE team explained importance of 'Students Forum' and appealed the teaching staff and students to become IETE Members.

PATNA

The 32nd World Telecommunication Day on 17th May 2000 was jointly organised by the IETE Patna Centre, the Institution of Engineers (India), Bihar State Centre and CSI, Patna Centre.

Shri M K Jain, GM (Project) Dept. of Telecom, inaugurated the function. Prof G P Lal, Past President of IE(I) and Vice Chairman, World Federation of Engineering Organisation, Geneva presided over the function. The key note address on Mobile Communication was delivered by Shri Ram Yagya, FIETE, Chairman of Patna Centre and GM (Div) Bihar Telecom Circle, Patna. Vote of thanks was proposed by Shri A P Yadav, Hony Secretary, IETE Patna.



WTD celebrations

PILANI

The Centre has taken the lead in preparing bimonthly technical notes on the topic of interest to both students and corporate members. This year the IETE first Technical note was prepared on Antenna Polarisation by Dr P S Bhatnagar. The second Technical note was prepared on Hybrid Micro Circuits by Dr H C Pande. The recent Technical note for May-June 2000 is prepared on Materials and Processes for Integrated Circuit Fabrication by Dr R K Nahar. Copy of these notes is available at HQ and from the Centre for the interested persons.

The annual general meeting of Pilani Centre was held on 29th June, 2000. It was attended by a large number of corporate members.

PUNE

The World Telecom Day was celebrated by IETE, Pune jointly with the Institution of Engineers, Pune Centre. The Speaker, Shri Ramani Aiyer spoke on mobile communications. He stressed upon the need for Satellite based communication in near future as it provides global coverage, versatility and uniform/convenient standards and easy to use voice and data communication. He also brought out the limitations of Mobile Communication and its possible health hazards. Shri M D Sant, Head Terrestrial IFDR Services, ITU (Retd) presided over the function. He justified the theme as mobile communication is going to bring another revolution in the world of Telecom & telecom technology. Prof Khedkar offered the vote of thanks.



WTD celebrations. L→R: Shri Madhukant Patel, Dr Tasgaonkar, Shri Raman Aiyer, Shri M D Sant, Dr S R Gowarikar and Prof Khedkar

VIJAYAWADA

Lectures on 'Mobile Communications' were organised by the Centre to celebrate the 32nd World Telecom Day on 17th May 2000. Dr M C Chandra Mouly, Chairman, Vijayawada Centre welcomed the gathering. The inaugural address was by Ms P Anuradha, Mayor, Vijayawada Municipal Corporation. An Overview of Cellular Communication Systems was presented by Ms M Padmaja, Lecturer, VR Siddhartha Engineering College. Other speakers on the theme of mobile communications were Dr P V Subbaiah, Prof & Head, ECE Dept, VRSE College & Prof S Udaya Kumar, KL College of Engg, Vaddeswaram. Vote of thanks was offered by Sri G N Swamy, Treasurer, IETE Vijayawada Centre.

NEWLY ELECTED IETE COUNCIL MEMBERS (2000-2003)



Prof Dr J H Agarwal is a pioneer in the field of applications of Electronics, Micro-processors, Computers and Information Technology in Agriculture and Bio-Sciences. He has worked on various projects of national and international importance. Dr Agarwal is associated with several departments of Govt. of India as an expert member on national level technical committees and panels. Currently, he is the Chairman of the National Division on Scientific Applications of Computers and Information Technology of the Computer Society of India. Dr Agarwal has been Vice President (98-99), Council Member (92-95, 96-99), Chairman (96-97, 97-98), of National Policy Advisory Committee, Co-Chairman of Academic and MLCC Committee of the Institution of Electronics and Telecommunication Engineers.



Dr R P Bajpai, MSc (Physics/Elec), PhD (IIT, Delhi), DSc (Japan) is currently the Director of CSIO, Chandigarh. He has 22 years of experience in microelectronics and developed RIBE, RIE, ESCA, RF/DC Sputtering, EBCE, MBE, SOL, LSI-VLSI Tester, STM, Wafer Rinser/Dryer systems. He is a Fellow of many professional societies, member of Management Council of different CSIR Laboratories and have won many awards/honors. He has generated high level expertise in Electron & Ion Beam Technology, Ultra High Vacuum, High Voltage Engg., Plasma Technology, Precision Signal Processing Precision Electro-Mechanical Manipulators, Semiconductor & Surface Analytical Equipments etc. He has been a Guest Editor of IETE publications.



Prof A Kumar, MSc(Physics) Delhi University and DIISc(ECE), ME(Micro-waves), PhD, all from IISc Bangalore presently is a Emeritus Scientist (CSIR) at ECE Department of IISc, Bangalore, where he worked in various capacities. He is also a Consultant to ISRO and NAL. He has also contributed significantly towards the growth of Bangalore Centre. Served its Executive Committee for 3 decades including Chairman 4 years. He served IETE Council during (89-92, 94-97). He was IETE Vice-President in 1990-91. As Chairman, ADEC he made important contributions to examination system.



Gp Capt H Kaushal, VSM (Retd) is BE(Pilani), ME (IISc, Bangalore) and MBA from Pune University. He has diverse experience of IAF, RCPO (Min. of Defence), Public Sector (Indian Telephone Industries & Hindustan Aeronautics Ltd.), Multinational Company. Currently he heads two consultancy and marketing units. He has been Vice Chairman of Bangalore, Pune and Delhi Centres, Council Member (96-99) while attached to Pune Centre as a Chairman. He has contributed to many IETE programmes.



Brig K Balasubramaniam (Retd) born and educated in Kerala, he was commissioned into the Corps of Signals Army in Sept 1948, from The Indian Military Academy, Dehradun. After serving the Army in various capacities in the planning and provision of communications for 32 years, his services were transferred to Indian Telephone Industries in Feb 80. Here again he served for 7 years in various jobs at Bangalore, Naini Allahabad and Mankapur from where he retired in Jul 87 as Executive Director. He then Joined TATAS as the founding Managing Director of Tata Telecom Limited and retired after a fruitful tenure of 6 years at the age of 65. He has been re-elected to the IETE Council for the third time.



S Narayana BE (ECE), MTech (Advanced-Electronics) started his career in DRDO, worked in the field of Guided Missile Radar and subsequently moved over to National Geophysical Research Institute (NGRI), CSIR, Hyderabad, where he is presently Scientist 'F'. He has designed several geophysical instruments which are produced commercially. He has been the recipient of several awards including the 'Best Invention Award'.

He served IETE Hyderabad Centre successfully for more than 15 years including Chairman for two terms (1994-96) leading to phenomenal growth of the Centre. During his tenure the Centre won the prestigious 'Best Centre Award' for both the terms. He was also the Council Member (96-99) and Chairman of MLCC, Vice President, IETE (98-99), Returning Officer for the Council Election (99-2002). His contribution towards the Institution is immense.



Harsh Vardhan is an electronics and telecommunication engineer by education and broadcasting engineer by training. As former member of Indian Broadcasting Service, he had served Akashvani as well as Doordarshan as Chief Engineer. He was the Chairman of Delhi Centre of IETE

during 1997-98. He had represented the Institution in the Kashmir Valley in the seventies. Shri Harsh Vardhan is currently consultant to a film & video production house and he is actively involved in the media education and training.



R C Garg, after obtaining MTech from Calcutta University (1964) and working in Transmission Research, Dept. of Indian Telephone Industries, Bangalore, joined ISRO in 1969. Served as Head, Earth Station, General Manager, Group Director in ISRO and developed state-of-art communication equipment. Transferred knowhow of large number of communication equipments to Indian Industries. Many firsts to his credit in the country in the field of electronics and communication e.g. Member of a team who has built first Commercial Earth Station at Arvi. As Head of Operations, participated in Satellite, Instructional Television Experiment, first of its kind in the world. Built electronic systems for first Master Control Facility, BSS uplink for DOT which made beginning of satellite TV Broadcasting in the country, first INSAT satellite search and rescue processor, first C-band Synthetic Aperture Radar.

Shri R C Garg is fellow member of various professional bodies in the country. Presently he is working as Director, Advanced Data Processing Research Institute (ADRIN), Secunderabad which is engaged in the development of the software in the field of Digital Processing.

S Ramakrishnan is a B Tech from IIT, Madras and PGDBA from IIM, Ahmedabad. Presently working as a Managing Director of Tata Teleservices Limited. He joined Tata Administrative Service in 1972 and has since been working with the Group in different capacities and diverse fields of projects related to Hotels, telecom, technology, park, airline, international airport etc. He has been looking after TATA Administrative Services as its Member Secretary. He has been working as; Deputy Managing Director, Tata Teleservices Ltd.; Dy Managing Director & Whole-time Director, The Indian Hotels Co. Ltd.; Vice President (Projects), Tata Industries Ltd.; General Manager (Projects), Indian Hotels Co. Ltd. He is on the Board of TATA Companies.

APPOINTMENT



R N Goyal, FIETE is BSc (BHU), BE(Hons) and ME from Roorkee University, MBA from IGNOU. He joined ITS in 1963 and since then has worked in various capacities in Research, Planning, Training, Projects, Production, HRD,

Operations before joining as Secretary to the Govt. of India, Department of Telecom (Operations) in July, 2000.

Shri R N Goyal is a linguist and holds fellowship of many Institutions. He has many achievements namely : University Gold Medal in 1963, contributed 100 technical papers in various journals in India & abroad, won many prizes for his papers including the Gold Medal of Institution of Engineers in 1980. He is also the founder of National Telecom Museum at Bhopal which is unique of its kind in the world.

ACHIEVEMENTS

Dr A R Ganeshan is MSc (Physics) and PhD from IIT, Madras. He has been actively involved in research since 1984. His areas of research are Laser Applications in Engineering Metrology, Holography, Optical & Opto-Electronic Instrumentation and Holographic Non-Destructive Testing. His areas of specialization include Optical data Processing, Applied Optics, Digital Image Processing, Fibre Optics & Laser Instrumentation and related fields.

He is a recipient of the Alexander von Humboldt Fellowship from Germany, which is one of the most prestigious and coveted post-doctoral fellowships in the world and a real honor to talented scientists. Under this fellowship, he has spent 2 years in Germany (92-94) doing research in the area of TV holography. He is the first person in India to work in the area of TV Holography. He is a member of many professional societies of India and abroad, like SPIE(USA), IETE, ISNT (India) etc.

Currently, Dr Ganeshan is an Assistant Professor in the Department of Physics at the Regional Engineering College, Tiruchirapalli. As a Humboldt Fellow, he has received equipment worth more than Rs 10 Lakhs from the Foundation given as a donation to his parent Institution i.e. Regional Engineering College, Tiruchirapalli. This equipment include a Twyman-Green Interferometer, Lasers, High precision Optics and a Digital Image Processing Station. Formal handing over of the equipment was done by Mr Karsten Warnecke, Consul, Consulate of the federal Republic of Germany. The funding for the equipment was made by the Bundesministeriums fur wirtschaftliche Zusammenarbeit, BMZ (German Ministry for Economic Cooperation).

Alexander von Humboldt Foundation of Germany offers Post-Doctoral Fellowships to talented scientists of all disciplines from basic sciences to engineering, medicine, music, arts, literature etc through out the world, to carry out research in Germany in their area of specialization. A total of about 500 fellowships are awarded per year. The selection is done on a world wide competition by a selection committee



Dr Ganeshan receiving the equipment donation from Mr Karsten Warnecke, Consul 3rd July 2000 at REC, Trichy

consisting of 200 German experts belonging to various fields. The foundation is funded by German Government.

The foundation also provides support for former Humboldt fellows from developing countries to continue their research, which they started in Germany. The foundation provides a donation of scientific equipment worth DM 40,000 to the fellow's institution to enable him to carry on his research. In this way, not only the fellows, but also their parent institutions get benefited by this fellowship.

SISTER-SOCIETY MEETING

IEEE Communications Society (IEEE ComSoc) organised Sister-Society meeting at Singapore during 24-25 Jul 2000.



Dr HS Sharma, President IETE seen in a meeting with the delegates of IEEE at the Institute of Engineers, Singapore

IETE being a Member of the Sister-Society, President Dr H S Sharma attended the meeting on an invitation from Mr Roberto de Marca, President IEEE ComSoc. President, IETE presented a status report on the IETE activities and collaboration with the sister-societies. His presentation included issues like dual membership, group affiliation membership, joint paper awards and representation on IETE ComSoc Board of Governors.

Our MoU with the IEEE ComSoc was also renewed during the meeting upto July 2002.



Roberto de Marca: IEEE ComSoc, President and Dr HS Sharma: IETE (India), President exchanging Sister Society agreement between ComSoc and IETE, India.

OBITUARY

Prof G K Mithal expired on 22nd Feb 2000 due to cardiac arrest. IETE deeply mourns the demise of Prof G K Mithal, a fellow member since 1971 and one of the founder members of the Institution. He was the first member to start activities at Jabalpur Centre. Prof Mithal had been Head of the Dept. of Electronics and Telecommunication at Govt. College of Engineering, Jabalpur and took lot of initiative to strengthen the Jabalpur Centre.

Dr S C Mehta, another Fellow Member of long standing in IETE passed away on 6th Aug 2000. He was a Member of Delhi Local Centre for several years and participated actively in IETE and its activities. Dr Mehta was Senior Director in MIT and was looking after Research and Development in HRD. IETE deeply condoles his passing away.

FROM EDITOR'S DESK

Our capabilities in Computer software, Information Technology, Telecommunications etc have become synonymous with the emerging Indian economic prowess. We seem to be basking in this glory. Our engineers and scientists are in great demand, not only in our own land but in all the developed nations of the world, be it the USA or Germany (who have officially opened their doors for the Indian talents) or Australia or any other such nation. It is not the graduates of the IITs only that are responsible for this transformation of the image, as the IIT products constitute only a fraction of the thousands that migrate each year for greener pastures abroad. These graduates come from all corners of the country. Whereas this could be a welcome trend in some sense, we have to seriously ponder about the health of the Indian society, due to systematic poaching of the Indian talents by the external world. It would be alright if we can sustain this charismatic output for a considerable period of time both for the external and domestic market. What is involved in this sustenance? Are we aware of all the parameters of that sustenance? Are we alive to those issues? It doesn't take long to come to the conclusion that one of the prime parameters for the sustenance is maintenance of the quality of products. That means, the quality of basic education as well as of professional education has to be of highest calibre. To achieve that would require innovative HRD strategies and sound investment in them. Though the IETE Council is continually engaged in providing such a leadership, we solicit your views on the matter. We would like IETE to become the platform for a discussion on the subject. Please write to us on the subject or mail your views to ietend@iasdl01.vsnl.net.in (our e-mail address).

—Prof Vishwanath Sinha

NOTICE

Photo Membership Card (laminated) for Life Corporate Members

As suggested by some senior members, we are introducing Photo laminated Membership Card for Life Members.

All Life Corporate Members desirous of obtaining such cards are requested to remit Rs 50/- only towards the cost of this card. Remittance may kindly be sent through Demand Draft/Local Cheque (Delhi) only payable to the Secretary General, IETE.

**Newly Elected Office Bearers of Various Local/Sub-Centres
(2000-2001)**

Centres/Sub-Centres	Chairman	Hony Secretary	Hony Treasurer
Ahmedabad	Shri N Mohanty	Shri J P Shivhare	-
Allahabad	Dr G S Darbari	Dr Nar Singh	Dr A N Srivastava
Bangalore	Wg Cdr (Prof) R N Rao(R)	Shri Giridhar R Joshi	Shri Bhagawat A M
Bhopal	Shri J P Khare	Shri Aditya Goel	Prof (Ms) N R Trivedi
Calcutta	Dr J N Maiti	Dr S Sen Gupta	Gp Capt D De
Chandigarh	Wg Cdr D N Misra (R)	Shri V P Giridhar	Shri P K Goel
Chennai	Er S Seshadri	Er K Sethuganesan	Er N Sampath Kumar
Dehradun	Shri S Haldar	Shri S S Rattan	Shri S S Sarin
Delhi	Shri K C Chhabra	Dr S K Chauhan	Dr H O Srivastava
Guwahati	Shri P M Dastidar	Shri P Saikia	Shri Ashwani Nazari
Hyderabad	Shri K Laxminarayana	Shri S Dayanand	Dr M Lakshminarayana
Jaipur	Shri Anurag Agarwal	Prof (Dr) S Sancheti	Shri B Singh
Kanpur	Prof P K Chatterjee	Shri R K Sharma	Dr Y N Singh
Lucknow	Shri Shabbir Ahmad	Dr S C Gupta	Dr (Mrs) N Sinha
Mhow	Col P K Sharma	Lt Col R S Bhate	Prof R P Sharma
Mumbai	-	Dr T S Rathore	-
Patna	Shri Ram Yagya	Shri A P Yadav	Shri Bikas Chandra Kr
Pilani	Shri P Kapur	Dr R K Nahar	Shri H S Kothari
Pune	Dr K R Phadke	Shri S N Joshi	Shri Madhukant Patel
Trivandrum	Prof R V Iyer	Sri P A K Menon	Shri M Mathew
Vijayawada	Dr M C Chandra Mouly	Shri K Srinivasa Rao	Ms M Padmaja
Cochin	Wg Cdr N J Pillai	Shri A Anil Kumar	Dr Vasudevan
Jammu	Dr B L Kaul	Er S K Puri	Shri A K Ogra
Nagpur	AVM U A Deshpande(R)	Dr K R Bagree	Dr K B Ghormare
Nashik	Shri B Prasad	Shri J C Manaria	Shri Nitin Mahajan
Noida	Lt Col I M Chabha(R)	Shri S D Sudarsan	Wg Cdr S C Narang(R)
Shimla	Shri V K Upadhyay	Shri P S Kalia	Shri Atul Kr Kuthaila
Vadodara	Dr R C Desai	Wg Cdr S R Vasavada	Prof S K Shah

IMPORTANT NOTICE

Vijayawada Centre has moved to new premises: IETE Vijayawada Centre, Garimella Satyanarayana Municipal Complex, 1st Floor, Veedhiraju Meda, Eluru Road, Vijayawada-520 002.

PROGRAMME

Friday, 29 SEP 2000

0845 hours	Inauguration of Tutorials	India Habitat Centre
1400 hours	Students Session with Council	Delton Hall
1500 hours	Technical Paper Contest	Delton Hall
1700 hours	46th Annual General Meeting	Delton Hall
1800 hours	1st(1999-2000) Special General Meeting	Delton Hall

Tutorials: The Annual Technical Convention will be preceded by tutorials on "IT Enabled Services and Internet & e-commerce" conducted by eminent experts in these fields. Computer professionals, Intranet and Internet users, managers, practising engineers and students of software engineering can use this opportunity to learn more about these emerging areas which are having profound influence on the structure of business worldwide.

Fee for Tutorials

IETE Corporate Members	: Rs 1500.00
IETE Students & Students Forum Members	: Rs 1000.00
Others	: Rs 2000.00

43rd Annual Technical Convention (e-commerce)

Indian Habitat Centre, Lodi Road, New Delhi- 110 003

Saturday, 30 Sep 2000

0830-0930 hrs	Registration
0930-1130 hrs	Inaugural Session and 32nd Bhabha Memorial Lecture
1130-1200 hrs	Tea
1200-1330 hrs	Technical Session-I (e-commerce - Technology Update)
1330-1400 hrs	Lunch
1400-1530 hrs	Technical Session-II (Electronic Business)
1530-1600 hrs	Tea
1600-1730 hrs	Technical Session-III (Security Issues - e-commerce, Internet and Digital Signature)

Sunday, 01 Oct 2000

0900-1000 hrs	23rd Ram Lal Wadhwa Award Lecture
1000-1030 hrs	Tea
1030-1200 hrs	Technical Session-IV (Cyber Laws and Regulatory Issues)
1200-1330 hrs	Technical Session-V (Electronic Fund Transfer)
1330-1400 hrs	Lunch
1400-1530 hrs	Technical Session-VI (Management and Implementation of e-commerce Systems)
1530-1630 hrs	Summing up and Valedictory Session

Registration of Delegates

IETE Corporate Members	: Rs 1500.00	Sponsored Delegates (One)	: Rs 3000.00
IETE Students & Students Forum Members	: Rs 1000.00	Sponsored Delegates (4 and above)	: Rs 2500.00 per person

Souvenir: It is proposed to bring out a souvenir containing abstracts of contributed papers, messages and other promotional material. The souvenir will be an excellent medium for organisations to advertise their activities and products. Organisations are requested to release their publicity material at the rates listed below.

Back Cover Page (Colour):	Rs 30,000/-	Inner Pages:	
2nd and 3rd Inner Cover Page		Full Page(Colour)	: Rs 15,000/-
	Colour : Rs 20,000/-	Full Page(B/W)	: Rs 10,000/-
	B/W : Rs 15,000/-	Half page(B/W)	: Rs 6,000/-

Address for Correspondence

Chairman Organising Committee ATC-2000
or
Secretary General
IETE, 2, Institutional Area, Lodi Road, New Delhi- 110003
Tel: 011-4631810/20/30/40/50 Fax: 011-4649429,4631810
e-mail: ietend@iasd101.vsnl.net.in; Website: <http://www.iete.org>

CALENDAR OF EVENTS

Subject	Date	Venue	Contact
Electra-2k Exhibition	15-17 Sept 2000	Maditssia's Auditorium, Madurai	The Chairman, Electra-2k Exhibition, 18, Hall Town Road, Gurney Complex, Madurai- 625 001 Ph: (0452)749798/740611, Fax:523967 E-mail: telemass@usa.net
Smart Cards Expo 2000-2nd international Conf & Exhibition of smartcard Technology & application	20-23 Sept 2000	Mumbai	S Swar, 4-A, Naaz Bldg, D S Bhadkambar Marg, Mumbai- 400004 Tel: 91-22-3860436, Fax: 91-22-3801782 e-mail: sswarn@bom5.vsnl.net.in
India Internet World 2000-Conference	27-29 Sept 2000	Pragati Maidan, New Delhi	Mediad2india.net 58,80 Ft Rd, Koramangala 7, Bangalore -560 095 Fax: 91-80-5717006 Website: www.iworldindia.com
E-Commerce, Annual Technical Convention	30 Sept-1 Oct 2000	New Delhi	Secretary General, IETE, 2 Institutional Area, Lodi Road, New Delhi-110003 Tel:011-4631810/20/30/40/50 Fax: 011-4649429/4631810 E-mail: ietend@iasdl01.vsnl.net.in
Maharashtra Knowledge. Com 2000 Exhibition & Business Summit	12-15 Oct 2000	Mumbai	WECOM, World Expo & Conventions Mgmt Ltd., E-35, Jangpura Extn, New Delhi- 110014, Tel: 4324674, 4324675, Fax: 91-11-4314673 E-mail: wisitex@iasdl01.vsnl.net.in
TIET.COM-2000, National Conference	14-15 Nov 2000	Patiala Punjab	Yaduvir Singh, Asstt. Professor, Organising Secretary, TIET.COM-2000 Dept. of Electrical & Electronics Engineering, Thapar Institute of Engineering & Technology, Patiala- 147004
India Telecom 2000	31 Oct-2 Nov 2000	New Delhi	Information Gatekeepers, INC. India Office 216, Commerce House, Nagindas Master Rd, Mumbai- 400 023 Tel: 0251-448885, 481335, Fax: 0251- 449085 E-mail: nigudker@VSNL.com
APSYM-2000, National Symposium on Antennas & Propagation	6-8 Dec 2000	Kochi Kerala	Department of Electronics, Cochin Univ. of Science & Technology, Kochi-682 022, Kerala Ph:91-0484-532161, Fax:91-0484-532800 E-mail: apsym@doe.cusat.edu
8th Intl Conference on Advanced Computing and Communication	14-16 Dec 2000	Cochin	Dr K Rajan, Dept. of Physics, IISc Bangalore 560 012, E-mail: rajan@physics.iisc.ernet.in
PTC 2001, 23rd Annual Conference	14-18 Jan 2001	Honolulu Hawaii, USA	Pacific Telecommunications Council, 2454 South Beretania Street, Suite 302, Honolulu, HI 96826-1596 Ph: +1 808941 3789, Fax: +1 808 944 4874 E-mail: ptc2001@ptc.org
International Conference Biomedical Engineering-2001	24-26 Jan 2001	Chennai	Dr G Ravindran, Organising Secretary, ICBME-2001, Centre for Medical Electronics, Anna University, Guindy, Chennai-6000 025, Ph: 91-44 2351723 Extn: 3169 E-mail: raviguru@annauniv.edu
Infrastructure & Investment India 2001, 4th Intl Exhibition & Business summit	5-8 Feb 2001	Pragati Maidan New Delhi	WECOM, World Expo & Conventions Mgmt Ltd., E-35, Jangpura Extn, New Delhi- 110014, Tel: 4324674, 4324675, Fax: 91-11-4314673 E-mail: wisitex@iasdl01.vsnl.net.in

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