



सह वीर्यं करवावहै

IETE NEWSLETTER

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July-August 2002

FROM PRESIDENT'S DESK

As I pass on the baton to a worthy successor, Prof K K Agarwal, this is the last of the pieces that I write from the President's desk. Henceforth the form and style may change but not the substance, inspiration and spur behind the pen, which must always reflect the IETE ethos and its abiding commitment to serve the nation.

Recently *India Today* published an article, "55 things that make India proud" This put me in a reflective mood to consider what makes us proud of our Institution. The number may be modest but the virtues that we cherish are no less profound than what *India Today* has listed.

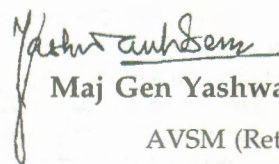
The pinnacle of our pride is the integrity of our examination system, which has withstood the test of times retaining confidence of, both the student community and the authorities that recognize our qualifications. There have been occasions when individuals have fallen off the edge of scrupulous moral conduct, but the aberrations have been severely and promptly dealt with and not allowed to whiff the system let alone pollute it. It is highly encouraging that this year too, we have recorded an impressive intake, when elsewhere it has received a beating. Decidedly it is because of our reputation of uprightness and no-nonsense stand in the face of attempts made to subvert the system and bring our Institution to disrepute.

The immaculate reputation that we enjoy in respect of awards is the next on the list. In a professional body like ours, merit and excellence must be identified and duly appreciated, and the acid test is the rigours of the criteria laid down and the processes followed. Much coveted and keenly competed as the recognitions accorded by the IETE are, it is the objectivity and thoroughness of the system that has earned us a good name and of greater satisfaction, so hailed internationally.

Our socially relevant programmes, particularly NORAD lend shape to our social perspective and involvement. The missionary zeal with which the centers are pursuing it is a welcome change from the notoriously unreliable public institutions. Every single effort directed at the social security structure is laudable and with the CoILNet our stock of contributions has been further raised.

We have to go a long way in research, but then it is the first step that starts a long journey. The seed that we have sown would fructify and bring to focus the marvels of e-revolution and the ones that would follow. It is the quality of our technical programmes that have given us the high visibility. The novelty and aptness of the subject, messages of the VIPs loaded with encouragement and appreciation, the keen attendance, the quality of papers and the publications that accompany the event are some of the morale-boosters that spur the Institution to greater heights.

And the last, but not the least we are proud of members: corporate, student and organization that have been a source of strength, generating feelings of progress, achievement, well-being and *nishkam karma*.


Maj Gen Yashwant Deva,
AVSM (Retd)

NEWS FROM HEADQUARTERS

45th Annual Technical Convention of IETE on Nano Technology

The Annual Technical Convention of the Institution will be held at Chandigarh on the 30th September- 1st October 2002 on the above theme. The presentations in four sessions will cover the topics under nanoscience, nanostructures, nanomaterials and applications of nanotechnology. These presentations will benefit participants and professionals from govt, industry and academia.

NEWLY ELECTED COUNCIL MEMBERS OF IETE

The following were elected as Council Members for the year 2002-2005:

Maj Gen Prem Prakash (Retd) was commissioned in 1953 in the Indian Army. He served in various technical establishments of the Army, where he held prestigious appointments at various ranks. After 35 years of brilliant service in Army, Maj Gen Prem Prakash joined IETE as Secretary (now designated as Secretary General) in 1988. During his tenure he took up vigorously the recognition of ALCCS and Diploma Courses with UPSC and HRD Ministry. He has contributed to the development of infrastructure & membership of IETE while holding the following positions; Vice Chairman & Chairman Delhi Local Centre, Council Member 1994-97 and 1998-2001, Vice President 1999-2000. Maj Gen Prem Prakash (Retd) has also been elected as a Distinguished Fellow of IETE this year.



Prof Anita Dandekar, obtained BE (with Honors) Degree in Telecommunication Engineering from Jabalpur University in 1961 and MTech degree from IIT, Kanpur in 1973. She served in many engineering colleges as the faculty member of Telecommunication, Electronics, Computer and Electrical Engineering. Notable among them are Government Engineering College Jabalpur, Sardar Patel College of Engineering, Mumbai and VJTI, Mumbai. Prof Dandekar is a recognized postgraduate teacher of electronics and electrical engineering of Mumbai University. She has guided many post graduate students in Electronics, Communication and Computer Science and published papers in various national journals. She is a life member of Indian Society of Technical Education. She received twentieth century Award for achievements from International Biographical Centre, Cambridge England and is included in World leaders of influence, published by American Biographical Institute, Inc.



Lt Gen (Retd) A K Agarwal, PVSM, is a telecom engineer who has specialized in many fields. He holds BE (Telecom), ME (Control Systems), MSc (Electronic Design) and MSc (Info. Engg) degrees. He is currently working as Senior Executive in UshaComm India for past 4 years. He served in Indian Army for 38 years in the Corps of Electrical and Mechanical Engineering and retired as Director



General Quality Assurance in the Ministry of Defence in 1998. He is a Fellow of IETE.

Mrs Neeru M Biswas did her B Tech (Electrical) from IIT, Kanpur and MS (Electronics) from Brown University, USA. She is Vice President of TN Associates, Toronto and New Delhi, is an international consultant in telecommunications and information management. Her clients include national and international government agencies. As a Professor of Administration and Information Management in the Faculty of Business at Ryerson Polytechnical University, Toronto, Canada, she pioneered development of an undergraduate curriculum in Information (Telecommunications) Management in Canada. She has published many papers in telecommunication journals of international repute. She spent about 10 years with the Ontario Ministry of Government Services (MGS) in several capacities, including Co-ordinator, Network support and was responsible for designing and implementing many new services including satellite-based teleconferencing, voice-mail etc.



Shri P N Chopra, DIG BSF (Retd) is presently Managing Editor of Bitcom India, a magazine on converging technologies of Broadcasting Telecom and IT and also a Senior Advisor with WorldSpace. He started his career with Punjab Police (Comm) and later shifted to Border Security Force where he served till 1986 in various capacities. He has about 15 years of corporate experience and 37 years of association with IETE. He was Council Member IETE (1998-2001), Hony Treasurer (1998-99), Chairman TPC (1999-2001), Chairman-IETE Delhi Centre (1984-86) and (1990-92). He is a senior member of many professional societies.



Prof K K Bhutani, FIETE, FIE, Sr MCSI is working as Director, UPTEC Computer Consultancy Ltd., Allahabad. He was formerly Prof & Head (Computers), University of Allahabad and General Manager, Computronics India. He was Council Member during 1997-2000 and contributed as Officiating Chairman, ADEC and Chairman of Awards Committee. He founded IETE Centre at Allahabad and was its first Secretary and subsequently



Chairman. Prof Bhutani has served on many committees of national level. He has a large number of publications and is also working as Consulting Editor of the Institution of Engineers (India). He has visited many countries and delivered lectures in international conferences.

Dr A K Tiwari, Chairman, IETE Bhopal centre obtained his BE and ME degrees from the University of Jabalpur. Later he did PhD from IIT, Delhi. He is presently Professor, Dept. of Electronics and Computer Science, Maulana Azad College of Technology Bhopal. He is a teacher, researcher and professional who has been a co-ordinator of Integrated Long Term Project between India and Russia.



Dr H O Srivastava, did MS (Electronics) from Gorakhpur University, PhD, from Poorvanchal University and another PhD (Information Systems) from BITS Pilani. He belongs to Indian Broadcasting Service and is presently Chief Engineer and Head of AIR Resources in All India Radio. His areas of interest include information systems, digital storage, multimedia broadcasting and broadcast applications for social issues. He is Chairman, IETE Delhi centre.



Lt Col (Retd) I M Chhabra, Chairman, IETE Noida Centre is a Science alumni of Government College, Lahore and belongs to the first independent India 1947 batch of cadets of Indian Military Academy. He was commissioned in the Corps of Signals. Highlights of his Army career include a stint in the UN Commission in South Vietnam; Instructional appointment at MCTE, Mhow and operational service in the Lahore sector in 1965. He took pre-maturely retirement from Army in 1971. His post retirement career include General Manager with Mohan Meakins and Honorary Advisor, Himachal Pradesh Government. Deeply involved in societal causes, has been the Chairman of IETE Noida Centre since 2000.



Shri A K Dimri, Chairman IETE Chandigarh Centre obtained his MSc (Physics) from Kanpur University and M Tech from IIT, Delhi. He joined CSIO, Chandigarh in 1970 and has worked in various capacities on design and development of analytical instruments, image evaluation techniques and low-pressure plasmas for micro fabrication. He has visited many countries abroad and published many research papers and technical reports. He is a fellow of IETE and life member of many scientific societies. Presently he is working as Scientist 'F' and Scientist-in-charge, Applied Physics Division, CSIO. He is associated with IETE Chandigarh centre for last 20 years.



IETE ANNUAL AWARDS

For the year 2001, the awardees for the different IETE annual awards are:

25th IETE-Ram Lal Wadhwa Gold Medal for outstanding contributions in the field of electronics and telecommunication engineering in the broadest sense, during the last ten years.

Dr P V Ananda Mohan, ITI Ltd Bangalore

13th IETE-Hari Ramji Toshniwal Gold Medal for outstanding innovations for applications to industry, preferably in the field of electronic instrumentation leading to the development and production of electronic instruments and related systems for use in Indian and abroad.

Dr M A Shamshi, CSIO, Chandigarh

18th IETE-Bimal Bose Award for outstanding contributions in the field of power electronics in the broadest sense.

Prof Bhim Singh, IIT, Delhi.

17th IETE-LAL C VERMAN AWARD for outstanding contributions in the areas of standardization, quality control and precision measurements during the last ten years.

No Award

9th IETE-Flt Lt Tanmaya Singh Dandass Memorial Award for outstanding contributions in the field of Avionics, covering education, research, design, development and/or production, during the last ten years.

Shri Vasantha E, ISRO, Bangalore

9th IETE-Prof K Sreenivasan Memorial Award for outstanding contributions in teaching electronics and telecommunication engineering in the broadest sense during the last ten years.

Prof V M Bandharipande, Osmania University, Hyderabad.

8th IETE-Prof SVC Aiyar Memorial Award for outstanding contributions in motivating research work in electronics and telecommunication engineering in the broadest sense during the last ten years. The award consists of a medal, cash prize of Rs.1000/- and a citation. The recipient is invited to deliver an address based on the work leading to the award at a technical meeting of the IETE.

No Award

8th IETE-Prof S N Mitra Memorial Award for outstanding contributions and leadership role in radio broadcast science and technology in the broadest sense during the last ten years.

Shri V V Srinivasan, ISRO, Bangalore.

4th IETE-CEOT (94) AWARD (BIENNIAL) for outstanding contributions in the field of opto-electronics in the broadest sense, covering materials, devices, circuits, technologies, systems applications.

Dr K R Suresh K Nair, NeST, Research and Development Centre, Cochin

5th IETE-B V Baliga Memorial Award for distinguished contributions to the field of Electronics and Communications with emphasis on R&D and industrial development during the past ten years.

Dr V R Kanetkar, ABB Ltd, Vadodara.

2nd 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 every year.

No Award

1st IETE-BR Batra Memorial Award is open to all corporate members of IETE with a standing of 5 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.

Prof S V Kharkar, Tolani Education Foundation, Pune

4th IETE Corporate Award for Performance Excellence in Electronic Components, Systems and Software-2000: The name of the organization recommended for this year is:

Electronic Components	No Award
Electronic Systems	M/s ECIL, Hyderabad
Software Development	No Award

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 Systems/ Detection Systems etc in the broadest sense.

Dr Lalit Kumar, MTR & DC, Bangalore

Awards for articles Published in IETE Journals-2000

- IETE - S K Mitra Memorial Award for the Best Research Oriented Paper :
'The Performance of cordECT Voice/Data Wireless Local Loop' by A Balaji, Timothy A Gonsalves and R Kumar, Vol.46, No.6, Nov-Dec 2000, pp 489-504, IETE Journal of Research
- IETE - J C Bose Memorial Award for the Best Engineering Oriented Paper:
'A Microcontroller Based Speed Controller for Permanent Magnet Brushless DC Motor' by Bhim Singh, A H N Reddy and S S Murthy, Vol.17, No.5, Sep-Oct 2000, pp 259-267, IETE Technical Review
- IETE - M N Saha Memorial Award for the Best Application Oriented Paper:
'Classification of Remotely Sensed Images using Artificial Neural Networks' by B Krishna Mohan, Vol.46, No.5, Sep-Oct 2000, pp 401-410, IETE Journal of Research
- IETE - K S Krishnan Memorial Award for the Best System Oriented Paper:
'An Overview of Congestion Control Techniques in ATM Networks and Some Performance Results' by S P Singh, Sujata Sengar and S L Maskara, Vol.17, No.3, May-Jun 2000, pp 87-103, IETE Technical Review
- IETE - CDIL Award for Industry for the Best Paper contributed by authors working in industry: 'Com Components on Heterogeneous Platforms of E-Commerce Applications' by Chandrasekhar Puligundla and Rakesh Agarwal, Vol. 17 No.4, Jul-Aug 2000, pp 229-234, IETE Technical Review

- IETE - Gowri Memorial Award for the Best Paper on topic of General Interest:

'Multipath Mitigation Techniques in Indoor Wireless Communication Networks - A survey' by R Sunder and C N Krishnan, Vol. 46, No.6, Nov-Dec 2000, pp 435-446, IETE Journal of Research

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

- i) 'Data Acquisition system for Simulation and On-Line Parameter Estimation of Induction Motor using Computer' by S R Kumbhar, M D Uplane, M S Gaikwad and M S Chavan, Vol.41, Nos.3&4, Jul-Dec 2000, pp 87-92, IETE Journal of Education
- ii) 'Low Cost Video Digitizer' by D N Kyatanavar, B G Tarlekar, H K Abhyankar and R P Sood, Vol.41, Nos.1&2, Jan-Jun 2000, pp 7-15, IETE Journal of Education

9th IETE-National Technical Paper Contest-2001

1st Prize - Ms Krshka Afonso, Ms Jennifer Baracho, Mr Parind Nachinolcar & Ms Ramya Nayak, of 8th Semester, Electronics & Telecommunication, Goa Engg College, Goa for their paper "Sea Bottom Classification Using Multibeam Echounder An Artificial Neural Networks Application".

2nd Prize - Mr Aditya Sane & Ms Renuka Ramani, of SE Electro & Telecom, Vivekanand Education Society's Institute of Technology, Mumbai, for their paper "Software Radio".

3rd Prize - Mr Ramakrishnan S, of SE Electro & Telecom, Vivekanand Education Society's Institute of Technology, Mumbai, for his paper "Human Motion Simulation".

3rd Prize - Mr Hemang Shah and Ms Ruchita Vora of SE Electro & Telecom, Vivekanand Education Society's Institute of Technology, Mumbai, for their paper "Wideband - Code Division Multiple Access (WCDMA)".

The Awardees of 9th IETE-National Technical paper contest-2001 were given the prize at the 44th Annual Technical Convention held at Bangalore on 29 Sep 2001.

STUDENT'S AWARDS

AMIETE (ET) Stream

June 2001

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

B R Vittal (Mem. No. 122421)

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

Birju H Thacker (Mem. No. 122420)

December 2001

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

Nilotpal Acharya (Mem. No. 123567)

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

K Narasa Reddy (Mem. No. 122495)

AMIETE (CS) Stream

December 2001

Council Prize II for securing the highest percentage with 60% and above marks and completing Part 1 of Section B in one attempt without exemptions

Shweta Arora (Mem. No. 127072)

DIPIETE (ET) Stream

June 2001

DIPIETE Council Prize I for securing the highest percentage with 60% and above marks and completing Part 1 of Sec A in one attempt without any exemptions

M Smith (Mem. No. 138157)

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

Sunith Shankara Warriar (Mem. No. 135036)

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.

Nizar P I (Mem. No. 127305)

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

Neeraj Waldia (Mem. No. 128203)

December 2001

DIPIETE Council Prize I for securing the highest percentage with 60% and above marks and completing Part 1 of Sec A in one attempt without any exemptions

Nirmalendu Ghosh (Mem. No. 142896)

Pradeep Kumar (Mem. No. 144791)

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

T R Ratheesh (Mem. No. 140192)

DIPIETE Council Prize III for securing the highest percentage with 60% and above marks and completing Part 1 of Section B in one attempt with exemptions

Mohd Abdul Azeem (Mem. No. 131556)

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

G V Desikan (Mem. No. 133365)

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

Manish Kumar Gupta (Mem. No. 128136)

DIPIETE (CS) Stream

June 2001

DIPIETE Council Prize I for securing the highest percentage with 60% and above marks and completing Part 1 of Sec A in one attempt without any exemptions

Niranjan Kumar K (Mem. No. 137860)

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

Deepak Sindhvani (Mem. No. 134547)

December 2001

DIPIETE Council Prize I for securing the highest percentage with 60% and above marks and completing Part 1 of Sec A in one attempt without any exemptions

Nishad Jasani (Mem. No. 145040)

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

Jay Mago (Mem. No. 141633)

NEWS FROM LOCAL CENTRES

Bangalore

IETE-IRSI-83 Award Presentation Ceremony was held on June 30, 2002. Dr Lalit Kumar, Addl. Director MTRDC, DRDO Bangalore was awarded IETE-IRSI-83 Award for the year 2001 in recognition of his outstanding contribution in the indigenous development of microwave tubes used in radar and other electronic systems. Wg Cdr CPK Menon Chairman, IRSI 2001 & 2003 conferred the award. During this occasion, Dr Lalit Kumar delivered P Kailasnath Memorial Lecture on "Indigenous Capabilities in Design & Development of Microwave Tubes."

Prof K Srinivasan Memorial Lecture on "MEMS, MOEMS & Microsystems- an Overview" was delivered on July 10, 2002 by Prof A Selvarajan, Emeritus Fellow, ECE Dept. IISc., Bangalore. Prof B S Sonde, Past President IETE and Former Vice Chancellor, Goa University presided over the function.

The Continuing Education Programme (CEP) on embedded systems and VHDL commenced on July 7, 2002. There were 40 and 10 participants in Embedded systems and VHDL respectively. Lectures, related to these topics, were delivered. Other technical lectures held were on Design of hardware interface circuits with 8031 kit & programming in C & assembly languages, digital filter design, HTTP, proxy, firewall introduction, socket port, FTP protocol, e-mail, architecture, SMTP & POP 3 socket programming model, introduction to network management and SNMP, backend IC design, CPLD & FPGA architecture, design of FIR & IIR filters, characteristics of analog filter and MAT lab.

Hyderabad

A popular talk on "Lessons for India from World Economy slow down" by Prof Prasad Bingi, Chairman and Professor, Dept. of Management & Mktg., and Dr Maneesh K Sharma, Professor, Indiana Purdue University, USA, was jointly organized by the IETE Hyderabad Centre, Institution of Engineers, AP Centre, IEEE, Hyderabad Section and CSI, Hyderabad Chapter on July 23, 2002.

Kanpur

IETE Kanpur centre organized an interactive "Student Meet" between student members, executive members and faculty members on July 7, 2002. Shri AN Rai, GM Kanpur Telephone chaired the meet. Shri S K Gupta (Chairman-elect), Shri R K Sharma (Hony Secretray-out going) and Shri S C Bansal (Hony Secretray-elect) conducted the meet. Dr Joseph John, Dr Y N Singh and Wg Cdr S K Guriani shared their experiences and imparted their valuable advice on the occasion.

Vadodara

Under the lecture series at Vadodara Sub centre, third lecture on "Human Value Engineering" on August 7, 2002 by Dr Rajendra Kumar, Director (Retd) Regional Research Laboratory, Bhopal was organized. This lecture meeting was jointly arranged by IETE Vadodara, Faculty of Tech & Engg. M S University Baroda, IE (Baroda), CSI, Institute of Foundrymen Baroda and The Society of Metallurgical Engineering Students, Baroda.

ISF activity

The IETE Student Forum (ISF) of Sri Sai Ram Engineering College was inaugurated on February 27, 2002. Prof (Dr) S Seetharaman, Principal of the Institution presided over the meeting. The ISF of Sri Sai Ram Engineering College organized a three-day workshop from July 4-6, 2002 on "PC Assembling & Trouble Shooting." The forum also organized a national level technical symposium "Cognizance 2002" on August 7-8, 2002.

NOTICES

DAAD Scholarships

The German Academic Exchange Service (DAAD) has identified a few courses from the large number of PG courses available, in areas of Economic Sciences, Business Administration, Political Economics, Development Co-operation, Engineering, Mathematics, Regional Planning, Agricultural and Forestry Sciences, Environmental Sciences, Public Health, Education for which scholarships are available, financed by the Ministry of Economic Corporation and Development. The courses are open to eligible candidates with personal financial resources, those who are funded by their government, or those who are recipients of financial support from international sponsoring organizations. A limited number of DAAD fellowships are available. The objective of this programme is to give academically-trained professionals in leading positions the opportunity to engage in postgraduate education and training in their particular professional field. Professionals holding a Master's Degree with atleast two years of relevant working experience, in public administration or in the public or private enterprise sector is the target group. Age limit is 36 years for most courses. Language of instruction is German or English. Duration is 1 to 2 years.

Detailed information and DAAD application forms are available from the:

1. German Academic Exchange Service
176, Golf Links, New Delhi- 110003
Tel: 4615148, 461009 Fax: 4690919, E-mail: daadnd@bol.net.in
2. German Institution of higher education offering the course.

3. Internet: <http://www.daad.de/newdelhi>
<http://www.daad.de/deutschland/en/2.2.4.html> (for information on programme)
<http://www.daad.de/en/download/daadstip.pdf> (for application forms)

Applications deadline:

31st August 2002 German Academic Exchange Service in N. Delhi
15th October 2002 respective German Universities and Fachhochschulen

CoILNet Project for Development of IT in Hindi

It has already been reported that IETE is to implement Project CoILNet for the development of contents for IT, Electronics and telecommunications in Hindi. The contents will be developed in the form of:

- a) A quarterly Hindi magazine titled *IETE SANGYANIKI* (SANCHAR, GYAN and PRAUDOGIKI.) All members (corporate and students) are requested to send the contributions for the magazine in the form of technical articles, News items, quiz, cartoons, make your own circuits etc. Suitable honorarium would be paid to the authors for the items published in the magazine.
- b) Publication of hi-tech books in popular style, understandable by the educated masses. Subjects like nanoelectronics, bioinformatics, mobile telecommunication technology etc. are being considered.
- c) Publication of textbooks focused on the courses conducted by institutions like DOEACC, SCERT etc., which are already conducting their examinations in Hindi.

All those who have a flair for writing on the technical subjects in Hindi are requested to send their biodata along with the subjects they wish to write on. The letters are to be addressed to

The Project Officer,
CoILNet Project,
IETE

2, Institutional Area,
Lodi Road, New Delhi-110 003.

Wg Cdr (Dr) M L Bala (Retd)
Chief Investigator

Attention Organization Members

As published in August 15, 2002 issue of Consultancy Business Opportunities, Consultancy Development Centre is planning to bring out the 4th National Directory of Consultancy Services during 2002. Only consultants who have fully executed a minimum of 5 projects in the last 3 years and have achieved an average turnover of at least Rs 3 lakhs per annum during this period would be eligible for enlistment in the Directory. Interested consultants may contact the following for more details:

Shri S K Lalwani

Jt Director, Consultancy Development Centre (CDC)
Zone-IV (B), 2nd Floor, East Court, India Habitat Centre
Lodi Road, New Delhi- 110003
Ph: 91-011-4602601, 2915, 1533, Telefax: 91-011-4602602
E-mail: cdc@iasdl01.vsnl.net.in
Website: <http://www.indianconsultancy.com>

Newly Elected Office Bearers of IETE Local Centres/ Sub Centres 2002-2004

LOCAL CENTRES	Chairman	Hony Secretary	Hony Treasurer
AHMEDABAD	Smt Smriti Dagur	Shri D K Agrawal	Prof J V Dave
ALIGARH	Prof Mahfoozur Rehman	Prof M A Siddiqi	Dr Yusufzaman Khan
ALLAHABAD	Prof A K Gupta	Shri P N Gupta	Shri Ram Singh
BANGALORE	Dr K Soundararajan	Shri D Rajagopal	Shri A M Bhagwat
BHOPAL	Dr A K Tiwari	Shri M K Gupta	Dr A K Rastogi
CHANDIGARH	Shri A K Dimri	Shri R C Arora	Shri A K Paul
CHENNAI	AVM V Krishnaswamy, VSM (Retd)	Shri C R Sasi	Wg Cdr K Narasimhan
DEHRADUN	Dr S C Jain	Shri V K Kaushik	Shri P K Mittal
DELHI	Dr H O Srivastava	Shri P K Singhal	Wg Cdr T R Bhalla (Retd)
HYDERABAD	Shri V Premsagar Rao	Shri K A Ramayya	Shri V Gunnasekar Reddy
JAIPUR	Wg Cdr B S Solanki	Shri S L Mishra	Shri Lava Bhargava
KANPUR	Shri S K Gupta	Shri S C Bansal	Prof Joseph John
KOCHI	Shri S P Pillai	Dr K Vasudevan	Shri K V Thomas
KOLKATA	Gp Capt M Mukutmoni (Retd)	Gp Capt Debabrota De	Shri S C Rudra
LUCKNOW	Shri S P Kalsi	Shri Umesh Sinha	Shri Alok Sinha
MUMBAI	Air Cmde(Retd) S S Motial	Shri Quraish Bakir	Shri P H Bhawe
NOIDA	Lt Col I M Chhabra (R)	Brig Ramesh Chandra(R)	Col T S Gururaj (R)
PATNA	Shri A P Yadav	Dr Lalan Singh	Shri Anup Kumar
PILANI	Dr R K Nahar	Dr Vishnu Srivastav	Shri M S Tyagi
PUNE	Shri M N Shukla	Shri V G Phadke	Shri Sunil Kumar
THIRUVANANTHAPURAM	Prof R Venkitakrishna Iyer	Shri G Abraham	Shri N A Abraham
VIJAYAWADA	Shri D Rama Krishna	Shri E V Krishna Rao	Shri M Venu Gopala Rao
VISAKHAPATNAM	Prof G S N Raju	Prof V S S N Srinivasa Baba	Shri K Chandra
SUB CENTRES			
GOA	Brig M K Sasidharan	Col S Naikar	Maj Vattarish
GWALIOR	Shri R K Khetan	Prof Abhay Mishra	Prof Manish Dixit
IMPHAL	Shri O Nillababu Singh	Shri N Debachandra Singh	Shri T Gunendra Singh
JABALPUR	Lt Col M Guin (Retd)	Dr A P Kajwadkar	Col N C Daspal
MANKAPUR	Shri J P Mishra	Shri S C Yadava	Shri Awadhesh Verma
MHOW	Col Ajeet Bajpai	Prof (Ms) K Athar	Maj H Bhatnagar
NAGPUR	Prof (Dr) M U Deshpande	Wg Cdr Ashok Wadhone	Dr D A Deshpande
NASHIK	Shri A V Kulkarni	—	Shri R K Singh
NAVI MUMBAI	Dr M K Sinha	Prof M S Shah	Prof V Pawar (HT)
SHIMLA	Shri N S Gill	Shri A S Jaswal	Shri Vikas Kumar Bhatt
TIRUPATI	Dr G R Reddy	Sri J Subramanyam	Shri S Narayana Reddy

CALENDAR OF EVENT

Subject	Date	Venue	Contact
<ul style="list-style-type: none"> 45th IETE Annual Technical Convention on Nano-technology 	30-01 Sept Oct 2002	Chandigarh	<p>Dr. Lalit M Bharadwaj Convenor, ATC-2002 Central Scientific Instruments Organisation Sec 30-C, Chandigarh-160 030 Tel: (0172) 657811 Extn- 452 (0172) 657190 (o) Fax: (0172) 657267, 657082 E-mail: lalitmbaradwaj@hotmail.com</p> <p>Maj Gen K B Jhaldiyal, AVSM (Retd) Secretary General, IETE, 2 Institutional Area, Lodi Road, New Delhi 110 003 Tel : +91 (011) 4631810; Telefax : +91 (011) 4649429/4631810; e-mail : ietend@giasdl01.vsnl.net.in; website : http://www.iete.org : http://www.iete.info</p>
<ul style="list-style-type: none"> Billing & CRM India 2002 International Conference 	11-Oct 2002	Hyatt Regency New Delhi	<p>Shri Shashi Dharan/ Shri Rohit Dogra or Ms Priya Ramachandran Convergence Plus A 17 (2nd Floor) DDA Office-Cum-Shopping Complex, Near Mool Chand Flyover, Defence Colony, New Delhi 110 024, India Tel: +91 11 463 8680-84 Fax: + 91 11 462 3320, 463 3506 E-mail: exhibitionsindia@vsnl.com Web Site: www.exhibitionsindia.org</p>
<ul style="list-style-type: none"> 5th National Conference on Construction "The Way Ahead" 	11-12 Nov 2002	Vigyan Bhawan New Delhi	<p>Shri P R Swarup Director General, CIDC Tel: 91-11-6433709, 6489992 Fax: 91-11-6451604/6234770 E-mail: cidc@vsnl.com Web Site: http://cidcindia.net</p>
<ul style="list-style-type: none"> National Seminar & Exhibition on Role of IT- in the present scenario of Globalization (RIT-2002) 	22-23 Nov 2002	Dhanbad	<p>Dr R J Jaiswal Dy. Dir, CMRI & Organising Secretary National Seminar & Exhibition Role of IT- in the present scenario of Globalization Central Mining Research Institute, Barwa Road, Dhanbad- 826001</p>
<ul style="list-style-type: none"> 6th Regional ITU Telecom Event for Asia-Pacific Region- ASIA 2002 	2-7 Dec 2002	Hong Kong	<p>TELECOM Press Service Tel: +41 22 730 6047 Fax: +41 22 730 5939 E-mail: telecom.press@itu.int Web site: www.itu.int/itutelecom</p>
<ul style="list-style-type: none"> National Symposium on Antennas and Propagation- APSYM 2002 	9-11 Dec 2002	Kochi	<p>Department of Electronics Cochin University of Science and Technology Kochi- 682 022 Tel: 91-0484-576418, Fax: 91-0484-575800 E-mail: apsym@doe.cusat.edu, apsym@cusat.ac.in URL: www.doe.cusat.edu/apsym</p>