



THE INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS

Newsletter

May 1992

FROM PRESIDENT'S DESK

MEMBERS should be pleased to note that we have introduced this new feature of a Newsletter which will be circulated free to all Members. The Newsletter will have about 12 sections — although not all of them may be featured in every issue. This is one more step that we in the Council are taking to improve the service that we provide to the Members. In due course of time, we hope to include a 'letters column' to give an opportunity for members to comment on the functioning of the Institution, and to provide feed-back to the Council. Even before such a feature can be introduced, I shall be grateful if comments and suggestions from the Members are sent to me regarding this Newsletter and also about the affairs of the Institution, in general.

New Delhi
11.4.92

P V Indiresan
President IETE

NEWS FROM HEADQUARTERS

- The Sub-Centre at Mankapur, Dist Gonda (UP) has been upgraded to a Local Centre. The Council has decided to establish Sub-Centres at Nagpur, Ranchi and Tirupati.
- A portion of the HQrs building which was rented out to the Department of Electronics, Government of India in March 1976 has been vacated by them.

The utilisation plan of the accommodation is being worked out to cater to a Council-cum-Committee room—IVth Floor.

CDE, Journal and TV Transmission for 'Continuing Education' — Vth Floor.

ALCCS Class rooms, Computer Centre, Microprocessors Lab and reception with a Computer Terminal — Ground Floor.

- The 23rd Mid-Term Symposium was held in Lucknow during 11-12 Jan 1992 on "Value Added Telecommunication Services".
- The 38th Annual General Meeting and the 35th Technical Convention is scheduled to be held during 4-6 Sept 1992 in New Delhi. The 24th Mid-Term Symposium will be held at

Ahmedabad during January 1993.

Half day workshop on "Electronics Exports" was held on 10th April 92 at Delton Hall at HQrs IETE Delhi.

NEWS FROM LOCAL CENTRES

Bhubaneswar — Seminar on "Emerging Technologies in Telecom and Electronics" was held on 11 April 92.

Bombay — Seminar on "Customer Services Through Computer Communications" was held during 18-19 Jan 92.

Calcutta — Prof MN Saha Memorial Lecture was delivered by Prof MK Das Gupta, Senior Scientist, INSA on 3 Oct 91 on "21-Cm Line Radiation and the Universe".

SK Mitra Memorial Lecture was delivered on "Application of Millimeter Waves in Remote Sensing Communications and Radar" by Dr CJ Gibbins of Rutherford Appleton Lab, UK.

Acharya JC Bose Memorial Lecture was delivered by Col (Dr) GK Deb, Director, ER & DC, Calcutta on 17 Feb 92.

Delhi — A Seminar cum Exhibition on "Electronics for Better Living" was held on 03-05 April 1992 at Hotel Holiday Inn.

Jabalpur — Two-day Seminar on "Prospects of Growth of Electronics" under

New Policy and Workshop on "Cable TV & Roof Top Dish Antenna" was held on 13-14 March 92.

Madras — IETE-Solidaire Endowment Lecture 1992 on "Evolution of Space Based Remote Sensing in India" was delivered by Dr K Kasturi Rangan, Director, ISRO on 02 Mar 1992.

Pilani — Seminar on "Current Status & Advances in Video Technology" was held on 21-22 Feb 92.

Pune — Seminar on "Qualitative Requirements of Electronic Exports" was held on 29 Mar 92.

PERSONALIA



Shri Hari Prabhakar Wagle obtained BE in Telecommunications from University of Poona in 1956. He joined Indian Telecom Service (ITS) in May 1958. He worked from 1960 to 1970 in Telecom Research Centre, New Delhi and thereafter held a variety of assignments all over the country in the P & T Department. He was Chief General Manager, Gujarat Telecom Circle, Ahmedabad before joining the Telecom Commission as Member (Technology) on June 20, 1990. On 9th July 1991 he took over as Director General Telecom and Member (Services), Telecom Commission. Currently he is Chairman, Telecom Commission and Secretary (Telecommunications), Govt of India.

Shri Wagle served as a Senior Expert in Transmission/Radio Relay systems from January 1982 to July 1984 in Uganda on an ITU assignment.

He has a hobby of reading books relating to science & technology and social subjects and is a lover of Indian

Classical Music.

Shri Wagle is a member of the Council of IETE and has been taking active interest in its activities.

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Prof K Srinivasan was born in 1899 and is the oldest Distinguished Fellow of our Institution. He is an Associate in Electrical Technology, IISc Bangalore. He had a distinguished career at IISc Bangalore (1932-45 and 1948-59) and College of Engineering Guindy, Madras (1945-48). He served as an acting Director of IISc Bangalore from 1955-57 and was Director MIT, Madras from 1960-71. He was President IETE during 1953-54.



TECHNICAL NEWS

WARC 92 concludes its work after four weeks of strenuous negotiations

The World Administrative Radio Conference (WARC 92) which has met for a little over four weeks (3 February – 3 March) at Torremolinos (Spain) closed with the signature of the Final Acts in the night of Tuesday, 3 March 1992.

The Conference was attended by more than 1400 delegates from 127 countries of the ITU's 166 Members and by observers from 31 international and regional organizations.

The work of the Conference was conducted under the chairmanship of Mr Jose Barrionuevo Pena, Member of the Parliament of Spain.

Global agreements were reached on most issues on the basis of compromises achieved after strenuous negotiations. Whenever national interests were better served by derogation to the consensus, exceptions were agreed, also by consensus, through the introduction of footnotes or by special procedures which ensure that a country planning to use a given frequency obtains the agreement of all countries which may be affected by its use.

POLICIES

PSUs under DoE to manage software parks

A massive restructuring exercise is on these days in the department of Electronics as well as autonomous bodies under its fold. Some of the developmental activities are being merged with others and some promotional activities are being palmed off to the PSUs under its control.

One of DoE's most significant activities in recent years has been the setting up of software technology parks (STPs). At present, there are seven such parks with eight more in the pipeline. According to DoE estimates, maintaining the seven existing parks required a minimum of Rs 32 crore – Rs 17 crore out of which was asked for as budgetary support for the next year.

However, due to the paucity of funds, the department has been forced to entrust the management of these parks to PSUs under its control. CMC Ltd will be asked to take control of the STP at Hyderabad. The VLSI centre there may also be brought under its management.

The control of parks at Pune and Trivandrum may also be offered to either CMC or ET&T. The department itself will continue to operate the Bangalore STP, while Semiconductor Complex Ltd. (SCL) will look after the Bhubaneswar STP.

Another centre to be wound up would be the National Centre for Software Development at Bangalore. This centre, set up only in October 1990, is being merged with the National Centre for Software Technology at Bombay.

The centres for electronics design and technology (CEDT) are being merged with the electronics research and development centres (ER&DC) to form electronic technology centres (ETC). At present, the department maintains seven CEDTs and five ER&DCs. While the former are involved with design and training, the latter are supposed to focus, apart from R&D, on interaction with the industry.

A CEDT in a particular region would

be merged with the ERDC in the same region. The CEDT at Gorakhpur would, for instance, be merged with the ER&DC at Lucknow. Similarly, CEDT, Calicut, would be merged with the ER&DC at Trivandrum. The total number of ETCs finally is likely to be six.

CONTINUING EDUCATION NEWS

The Centre for Distance Education is an integral part of IETE. It was started as a correspondence Course Unit (CCU) in the year 1981 with a limited objective of providing correspondence course in AMIETE Section 'A' Part-II subjects. The initial enrolment of students was 916. The scheme was an instantaneous success.

Due to overwhelming demand from students, correspondence courses for AMIETE Section 'A' Part-I were also started in the year 1984.

The name of CCU was changed to CDE in the year 1987.

The Distance Education Programme for Dip IETE was started on 1989.

As on 31 Dec 91, there were 8669 students enrolled for AMIETE exam and 500 students for Dip IETE exam.

The AMIETE has recognition from the Government and UPSC as equivalent to BTech/BE degree. Recognition for Dip IETE is expected soon.

The course material, written and reviewed by renowned faculties from IIT and Engineering Colleges is sent to the students enrolled with CDE. The students are expected to solve the Response sheets which are evaluated by knowledgeable persons. Periodic Students Contact Programmes are also held at different local centres for solving students problems and guiding them.

Radio text Programme

A programme for imparting lessons to students through Radio text programme, on the FM Radio has been taken up in the year 1991 in collaboration with NIC and the work is in progress.

INDUSTRY PROFILE

COMPANY PROFILE	: SIEMENS LTD., BOMBAY (Subsidiary of Siemens AG, Germany)
CHAIRMAN	: DR. F.A. MEHTA
MANAGING DIRECTOR	: DR. E. R. REINHARDT
PRESENCE IN INDIA	: Since 1867 (laying of Calcutta-London Telegraphic Cable Line)
PLANTS	: <ul style="list-style-type: none"> • Kalwe/Thane - Switch Gear, Motors, Switch Boards • Worli/Bombay - Medical Equipment • Nashik - Electronic Equipment • Calcutta - Switch Boards & Tailormade Control Boards • Aurangabad - Switch Gear
MAJOR OFFICES/BRANCH OFFICES	: <ul style="list-style-type: none"> • 7 Locations—Bombay, Calcutta, Madras, New Delhi, Ahmedabad, Bangalore, Hyderabad
REPRESENTATION OFFICES	: <ul style="list-style-type: none"> • 26 Locations— • Dealer Network - Countrywide
EMPLOYEES	: Over 7,000
SHARE HOLDERS	: Over 26,000
ORDERS RECEIVED (1990-91)	: Rs. 438 Crores
JOINT VENTURES/ASSOCIATED COMPANIES	: <ul style="list-style-type: none"> • Cable Corporation of India Ltd. — Cables, Power Control • Webel Telematik Ltd. — Telecom Equipment • Deltel Systems Ltd. — EPABX • Siemens Information Systems Ltd — Software
LICENCEES	: <ul style="list-style-type: none"> • BHEL — Large generating sets, Industrial Turbines, Industrial Control Systems etc. • BEL — Vac. Interruptors, Electron Tubes, FM Equipment • HMT — CNC Systems • 9 Various Licencees — Push Button Telephones • ECIL/ITI — Electronic Telex Exchanges • Modern Insulators Ltd. — Insulators • Mafatlal Industries Ltd. — Connectors • Unitron Ltd. — Communication Test Equipment

SIEMENS Germany are one of the leaders in Telecommunication Technology. With the new liberalised Industrial Policy, Siemens is interested in bringing the latest technologies in the area of Public Switching, Microwave Transmission, Multiplexing & Cellular Mobile Equipments.

SIEMENS are also supplying large variety of Professional Grade Components to Electronics & Telecom Industry. SIEMENS have also installed a large number of sophisticated Placement Systems for Surface Mount Technology.

ACADEMIC NEWS

Examination News

IETE exams are conducted at 21 IETE Local centres and 5 centres abroad. Vijayawada and Mankapur will be additional IETE exam centres wef June 1992 examination.

The June 1992 examinations will be conducted at all our Centres from 17 to 24 June 1992.

Computer Courses

To cope up with the large demand of Computer Specialists in India, the Govt of India decided to conduct exams at four levels, 'O' (Certificate), 'A' (Diploma), 'B' (Graduate) and 'C' (MTech) to gauge the proficiency of Computer Personnel. The Govt of India has entrusted Computer Society of India to conduct 'O' and 'A' level examinations and IETE to conduct 'B' and 'C' level examinations.

The first DOEACC 'C' level examination was conducted in December 1991. The next examination will be conducted at all our centres alongwith the AMIETE and DIPIETE exams from 17 to 24 June 92. Examinations will be conducted in all the papers hereafter twice in an year in June and December alongwith other IETE examinations at all our Exam centres.

EMPLOYMENT NEWS

IETE requires for its HQs in New Delhi, the following staff.

1. EDP Manager — Engg. Graduate or M.Sc Physics/Maths/Statistics with MCA and 10 years

experience in designing, developing and maintenance of software on mini/micro/mainframe, managing day to day inhouse EDP functions and to guide students of M Tech Level Course in their practical work. Scale: Rs. 3000-4500 (Minimum in the scale Rs. 5,830/-)

2. Examination Officer — M. Sc Physics with Electronics/Engg. Degree in Electronics, Telecom with 10 years experience in responsible position in Govt., Educational or Professional Institution. Scale: Rs. 2200-4000 (Minimum in the scale Rs. 4,312/-)

3. Project Officer — For continuing Edn. Programme through TV Transmission. A temporary post on contract, preferably a Retd. Engineer from ISRO/Doordarshan. Qualification MSc Physics with Electronics/B.E. (Elec.) with working experience. Consolidated Salary Rs. 5,500/-.

BIBLIO FILE

Books added in IETE Hqrs. Library during March-April 92

1. Basic and Applied Mechanics — G Ranjan, and ASR Rao.
2. Computer and Communication — N Seshagiri, and J Salmona.
3. Electrical Technology — BL Thereja.
4. Electrical Engg & Electronics — BL Thereja
5. Electric Power Distribution Systems — AS Pabla.
6. Engineering Mathematics — RK Chatwal.

CALENDAR OF EVENTS

Subjects	Dates	Venue	Contact
IEEE Intl Workshop on Personal Indoor & Mobile Radio Communications	25-28 May 1992	Hungary	Secretary, Programmes Committee, HTE Budapest, Kossuth Lajos, Ter 6-8, Hungary H 1055.
Two-Day Seminar on Cellular Radio & Mobile Communication	28-29 May 1992	Aligarh	Shri AS Khan, Hony Sec, IETE Aligarh Centre, Dept of Electronics Engg, ZH College of Engg, Aligarh Muslim University, Aligarh-202 002.
International Radio Symposium and Technical Exhibition 1992	10-13 June 1992	Montreux	NAB Radio Montreux P O Box 97.. CH-1820 Montreux 1.
Exhibition/Conference-Nepcon East	16-18 Jun 1992	Boston	Exhibitions India, E-6, Defence Colony, New Delhi-110 024
Exhibition/Conference-PC EXPO	23-25 Jun 1992	New York	Exhibitions India, E-6, Defence Colony, New Delhi 110 024
National Seminar on Theoretical Computer Science 1992	17-19 July 1992	Calcutta	Prof Bhabani P Sinha, Electronics Unit, Indian Statistical Institute, Calcutta-700 035.
Asia Pacific Conf on Electromagnetic - Compatibility & Workshop on electronic Product Design	24-25 Aug 1992	Madras	Coordinator APC-EMC, SAMEERCentre for Electromagnetics, CIT Campus, 2nd Cross Road, Taramani Madras 600 113.
IEEE Intl Conf on Systems Engineering	18-22 Aug 1992		
	17-29 Sept 1992	Kobe (Japan)	Ms Suzy McGovern, Wright State University, Dept of Elect Engg, Dayton, Ohio 45435, USA.
Exhibition/Conference — Globaltronics '92	23-26 Sep 1992	Singapore	Exhibitions India, E-6 Defence Colony, New Delhi-110 024
NEPCON ASIA-Pacific 8th Internepcon/ Semiconductor Asia-Pacific Technical Conference	24-26 Sep 1992	Singapore	Cahners Exposition Group (Singapore) Pte Ltd, 1 Maritime Square # 12-01, World Trade Centre, Singapore 0409.
INTERKAMA '92 Fair	5-10 Oct 1992	Dusseldorf	INTERKAMA Working Group, Dusseldorfer Messegeseellschaft (Dusseldorf Trade Fairs)—NOWEAINTERKAMA '92, PO Box 320203, W-4000 Dusseldorf 30.
Indian Comm 92 Exhibition & Conference	13-16 Oct 1992	New Delhi	Exhibitions India, E-6 Defence Colony, New Delhi 110 024.
Intl Seminar on Switchgear and Controlgear	12-13 Nov 1992	Bangalore	Mr. MB Telang, Organising Secretary, IEEMA, 501, Kakad Chambers, 132 Dr A B Road, Worli, Bombay-400 018
Third Intl Conf on Electromagnetic Interference & Compatibility (INCEMIC)	02-04 Dec 1992	Calcutta	Col (Dr) G K Deb, Hon Chairman, INCEMIC '92 Electronics Research and Development Centre, P-1, Taratala Road, Calcutta-700 088

7. Finite Element Method for Structural Engineers — WN Al-Rifaie and AK Govil.
8. IBM Story board Plus-IBM Corpn.
9. IC Master vol I-II-III — BM Howell (Ed).
10. Information Technology — Balagurusamy.
11. Physics and Semiconductor Devices — AK Shreedhar.
12. Practical Transistor Equivalent Manual — GC Jain.
13. Principles of Extractive Metallurgy — HS Ray and A Ghosh.
14. Principles of Communication Engg — A Singh
15. Semicon's International Transistor Index Data & Equivalents — Semicon.
16. Tower's International Transistor Selector — TD Tower.
17. Transistor Substitution Manual — M Lotia
18. Transistor Receivers self constructor — K Ramaswamy.

FORUM

The Council of IETE feels proud of presenting the first newsletter bringing out current and important items having immediate relevance to all our Corporate & Student Members. Council also desires to provide a forum to our members on issues & matters which will have relevance for all other members. I would, therefore, request our esteemed members to send their views and important items in a brief and concise form for inclusion in our future issues.

MANAGING EDITOR