ieeedelhinews
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Message of Section Chair

Dear IEEE Delhi Section Members,

I am delighted to know that our Section Past-Chairman & Electronic Communications Coordinator, Dr. S.Mukhopadhyay has announced the launching of our Section E newsletter "**ieeedlhinews**", which will become an extremely useful supplement to our hard-copy newsletter "BEACON", brought out only twice an year.

We from the Delhi Section Executive Committee are very grateful to him for this initiative. I am sure that with this newsletter we will be able to disseminate all information about our Section activities well in time so that a lot more of our members can participate in our activities.

This being my first message to the Section Members after I took over as the chairman of the IEEE Delhi Section, I wish to express my sincere thanks to our Section Nomination Committee and all of you Section Members for having given us this opportunity to serve you. I am sure we will be able to organize a lot of quality Technical and Professional activities with your kind support, advice and suggestions.

Prof. R. Balasubramanian
Chairman
IEEE Delhi Section

**IEEE DELHI SECTION AGM OF
JANUARY 21, 2001**

IEEE Delhi Section had its Annual General Meeting on January 21, 2001 at India International Center, New Delhi. 35 members and few guests attended this. In the absence of quorum, starting of the meeting was slightly delayed. With the minimum requirement of strength as 25, when fulfilled, it started and agenda items were taken up for discussion. In his welcome address Chairman highlighted performance and achievements of the Section in the year 2000. Following this, with little bit of modifications, minutes of last AGM held on January 16, 2000 were confirmed. Secretary in his report while giving an account of 48 activities of the year including 21 concerning technical, educational and professional ones termed the workshop on Electrical Safety as the major event. Winning of the PES Outstanding

During the proceedings of Section AGM, sitting on the dais (from L to R) Prof. Sudhanshu S. Jamuar (Treasurer), Mr. Rajendra K. Asthana (outgoing Chair), Prof. R.Balasubramanian (incoming Chair) and Mr. Dinesh P. Gupta (outgoing Secretary)

Chapter under small Chapter category by its joint Chapter of PES and IAS was lauded. Visit of Distinguished Lecturers from Communications Society and Power Engineering Society too was highlighted.

Treasurer while tabling the Financial Report mentioned that starting with a meager balance of Rs.56,704.86 Section had a total receipt of Rs.706,370.67 and disbursement of Rs.306,923.21, thus leaving a comfortable balance of Rs.456,152.32 at the end of year 2000. While the cause of this much amount was attributed due to enhancement of membership strength to a large extent, at the same time he cautioned that further a sum of Rs.224,035.00 would have to be returned to Region 10 being the part of seed money on account of TENCON'98. Thereafter in the absence of any petition, the names of Section EXECOM members for the year 2001 (as given below) were announced.

Sl No.	Position	Name & Organization
1.	Chairman	Dr. R Balasubramaniun (IIT)
2.	Vice Chairman	Mr. Raj Kumar Vir (ex-RLYS.)
3.	Vice Chairman	Dr. Ajay K. Tandon (DCE)
4.	Secretary	Dr. Ram Nath (BHEL)
5.	Treasurer	Dr. Sudhanshu S Jamuar (IIT)
6.	Joint Secretary	Dr. (Ms) Mini S Thomas (JMI)
7.	Past Chairman	Mr. Rajendra K Asthana (BHEL)
8.	Member	Dr. Subrata Mukhopadhyay (CEA)
9.	Member	Mr. Prakash V Ekande (NTPC)
10.	Member	Mr. Man Mohan S Puri (DESEIN)
11.	Member	Mr. Pramod K Srivastava (ex-BHEL)
12.	Member	Dr. Asok Bhattacharyya (DCE)
13.	Member	Mr. Vijay K Dutt (RLYS.)
14.	Member	Dr. (Ms) Devi Chadha (IIT)
15.	Member	Mr. Harish Tejwani (HUGHES)
16.	Member	Dr. V R Singh (NPL)

Under any other point, DCE Student Branch Counselor reported about their achievements in the last few years. However on the issue of revised by-laws for the Section, when it was tabled, house retuned the same with the advice to place it first before new EXECOM and upon approval for consideration in the AGM, which might be specially and specifically called for this purpose. As on May 13, 2001 the Section would be completing its 25 years, it was also suggested to arrange suitable function to commemorate the occasion.

Following the Section AGM and after lunch, PES-IAS and Computer Society Chapters too had their respective AGM at the same place successively.

REPORT ON WORKSHOP ON EMC

A workshop on "Electro-Magnetic Compatibility of Electrical / Electronic Equipment" was organized by the IEEE PES-IAS Delhi Chapter along with the Delhi Section and India ED-MTT Chapter on January 22, 2001 at India International Centre, New Delhi. It was attended by 32 participants coming from academic and research institutions, communication and defence establishments, manufacturing organizations. The day-long workshop had the privilege of IEEE IAS DL Prof. Paolo Tenti and Dr. Giorgio Spiazzi of the University of Padova, Italy as the presenters.

In the four sessions run basically following eight sections were covered by the two speakers:

1. Introduction to European Directive 336/89
2. High-frequency emission standards & case studies
3. Origin of high-frequency pollution & Design provisions to reduce EMI
4. Low-frequency emission standards: definition & case studies
5. Origin of low-frequency pollution, definitions and basic compensation techniques
6. PFC structures
7. Example of application (PFC)
8. Immunity standards & case studies

The IAS DL Prof. Paolo Tenti (facing camera) being introduced by Dr. S.Mukhopadhyay, IEEE PES-IAS Delhi Chapter Chair & Workshop Secretary while on his right Prof. R. Balasubramanian, IEEE Delhi Section Chair & Workshop Chair looks on

With majority of the participants from design groups stress was given more on the relevant aspects. But those concerned with the Component Packaging and Manufacturing Techniques also got the opportunity to interact

with the speakers on their specific problems. Lastly test set-up established at the University of Padova, Italy and testing procedures as per various IEC standards were dealt with in details.

On this occasion Prof. Tenti extended invitation to the students working in this area to avail of the opportunity of working with his group in Italy under Indo-Italian exchange program and to the manufactures in setting up of units in India under joint venture.

Those who are interested in having a copy of the course material (available in pdf format through CD and costing one hundred fifty rupees only) may contact Workshop Secretary Dr. S. Mukhopadhyay at subrata@ieee.org.

Forthcoming Technical & Professional Activities

Full day conference on Power Sector Reforms on March 19 jointly by IEE & IEEE at IIC

Fourth IEEE International Conference on Power Electronics and Drive Systems 2001 (PEDS 2001)
Bali, Indonesia
22 to 25 October 2001

The deadline for submission of technical papers is 31 March 2001. Prospective authors are invited to submit three copies of abstract and extended summary (not more than 5 pages including figures). The first page should include the title, the names of author(s), affiliation, mailing address, fax number, e-mail address, preferred topic area, and an abstract of 100 words. The second and subsequent pages should include the title and extended summary. The papers would be reviewed by members of PEDS International Steering Committee. The submission should be sent to: PEDS Management Committee P.O. Box 1196, Kent Ridge Post Office Singapore 911107, Republic of Singapore For electronic submission, please refer to website http://www.ieeepeds.org

IEEE DELHI SECTION MEMBERSHIP STATISTICS AT A GLANCE
(as in end-December 2000)

Total : 1827

Grade	Strength
Honorary Member	2
Fellow	2
Senior Member	116
Life Senior Member	8
Member	629
Life Member	2
Student	387
Others	681

Chapter	Strength
C016: Computer Society	231
COM019: Communications Society	213
PE031: Power Engineering Society – IA034: Industry Applications Society	94
CAS004: Circuits & Systems Society – CS023: Control Systems Society	51
EM014: Engineering Management Society	22

Student Branch	Strength
40336430: SJPMLIET, Radaur	68
2591901: DCE, Delhi	49
2518473: Engg. College, Ajmer	38
2510361: REC, Kurukshetra	36
2534861: JMI, New Delhi	32
2518443: PEC, Chandigarh	30
2503861: BITS, Pilani	16
2591103: MBM Engg. College, Jodhpur	9
2590001: IIT, New Delhi	7
2534811: NSIT, New Delhi	4

Excerpts from IEEE Leadership Wire
(January 12, 2001 issue)

INTRODUCING THE NEW "IEEE SPECTRUM"

This month, the "IEEE Spectrum" editors introduced a completely fresh and distinctive publication. Reinvigorated and repositioned, the new "IEEE Spectrum" opens with the editorial blockbuster, "Technology 2001: Living in a Networked World." This special issue pushes the envelope in analysis and assessment of the trends, developments and people behind emerging technologies. The new "Spectrum" will deliver timely articles that are provocative, visually interesting, international in scope and

easy to read. The magazine also is adding new sections to allow more rapid reporting of events and technical developments. Look for the new "Spectrum" in your mailbox or visit "http://www.spectrum.ieee.org/index.html".

NOMINATIONS SOUGHT FOR EDUCATION AWARDS

A new Pre-College Educator Award - the first Educational Activities Board award to go to a non-engineer - has been established. It recognizes a current full-time teacher of math, science or technology who succeeded in making these subjects come alive to their students. The nominator must be an IEEE member. Student members and IEEE Sections are strongly encouraged to submit nominations. In addition, Educational Activities Board (EAB) is currently accepting nominations for the following awards:
*Meritorious Achievement Award in Accreditation Activities
*Meritorious Achievement Award in Continuing Education
*Major Educational Innovation Award
*Meritorious Service Citation
*Employer Professional Development Award
The deadline for all nominations is 30 April 2001. In June, the EAB Awards and Recognition Committee will review all nominees and make recommends to the Board, which will decide upon the recipients. All nominees will receive a certificate of recognition. Winners will receive an engraved walnut and brass plaque and a US$1,000 honorarium at the IEEE Organizational Units meeting in November 2001. Winners, their companion, and nominators will be the guests of the IEEE EAB for the trip and event. For more information about the awards and the nominating and criteria requirements,visit
"http://www.ieee.org/eab/arc/awards/index.htm"
or contact Rae Toscano, IEEE Educational Activities, at Mail To: "r.toscano@ieee.org" or tel.: +1 732 562 5482.

Excerpts from SCOOP
(January 2001)

ELEVATION TO SENIOR MEMBER

If you know of members in your Section who have been in professional practice for at least 10 years, you may want to make them aware that

they are eligible for IEEE Senior Membership, the highest grade of membership for which an individual can apply. New Senior Members receive a wood and bronze plaque and a credit certificate for up to US$25 for a new IEEE Society membership. In addition, a letter will be sent to employers, recognizing this new status.

For more information on senior member status, visit
http://www.ieee.org/membership/grades_cats.html#SENIORMEM.

To apply for senior member status, fill out an application at
http://www.ieee.org/organizations/rab/md/smelev.htm.

HISTORY OF TELECOMMUNICATIONS: CALL FOR PAPERS

The IEEE Conference on the History of Telecommunications (CHT2001) will be held 25-27 July 2001 in St. John's, Newfoundland, Canada. CHT2001, is sponsored by the IEEE History Committee and IEEE History Center at Rutgers University. The emphasis of this conference will be on telecommunication events of the last 50 years, although papers on all periods will be considered. Most papers will deal, at least in part, with the technologies themselves; some of the participants will be engineers who have participated in the developments. The conference will consist of two and a half days of paper presentations and discussions, poster session, shared breakfasts and lunches, and optional evening activities and excursions. Through a grant from the IEEE Foundation, CHT2001 will conduct a worldwide paper competition among the IEEE Student Branches and offer the winner in each of the 10 IEEE Regions an opportunity to travel to St. John's and present their winning paper at Poster Sessions during this Conference. In addition, each winner's Student Branch will receive an honoraria and the top three paper winners will win $200, $100 and $50 for First, Second and Third place papers, respectively.

Abstracts are due by 2 March 2001. Contact MailTo:history@ieee.org for more information or check the web site at: http://www.ieee.org/history_center/cht2001.html

From the desk of ECC

Dear esteemed colleagues,

As promised in the last AGM, our dream comes true with the release of the very first issue of our Section *e-newsletter* **ieeedelhinews** in January 2001. From the next month onwards, we will try to publish it by 10th. I seek your cooperation in making the issues meaningful and right in the spirit of serving the need of our Section members at large. Besides the usual columns on reports of already held events, announcement of activities in near future, our strength (and so weakness too), we will like to have other news which you may like to share with the fellow members. Please feel free to interact through this circulation, as this may be the *only* medium in the years to go and as we see from information available and practiced by IEEE that is going more and more for e-publication in preference to hard copy circulation.

With regards,
Sincerely yours
Dr. S.Mukhopadhyay
New Delhi
January 29, 2001
(e-mail: ieeedelhi@ ieee.org
URL: http://www.ewh.ieee.org/r10/delhi)

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MINUTES OF THE ANNUAL GENERAL MEETING-2001

The Annual General Meeting (AGM) of the IEEE Delhi Section was held at 11 am on January 21, 2001 (Sunday) at India International Centre. It was attended by 35 members. It was the 24th AGM and 2001 is being celebrated as the Silver Jubilee Year of Delhi Section.

The deliberations of the AGM are as follows:

1. Welcome address by the Chairman, IEEE Delhi Section

1.1 Mr. R.K. Asthana, Chairman IEEE Delhi Section welcomed the members to the AGM. He briefed the members on the various activities organized during 2000. He mentioned that the section had organized 48 events, of which 27 were technical, educational and professional activities.

1.2 During the year Region 10 Committee Meeting was held at Langkawi Island (Malaysia) which was attended by Section Chair. IEEE President visited Delhi during the year and all members were invited for interaction with him. Proceedings of these meetings are already published in Section Newsletter, BEACON.

1.3 Section membership grew from 876 (in Dec. 96) to 2400 in Dec. 99. Though the figure was 1827 as on Dec. 8, 2000, it is expected to rise to the previous high level after the renewals for 2001. Section Chair congratulated Publication Sub-Committee and its Chairman Mr. P.K. Srivastava, for timely publication of BEACON and its new get up. Section Chair appreciated Electronic Communication Coordinator, Dr.

Mukhopadhayay's effort for periodical updating of the Section web-site.

2. Confirmation of the minutes of the last AGM held on January 16, 2000

2.1 The minutes of the last AGM as circulated earlier were then moved for approval by the house.

2.2 It was proposed to remove the point 3.3 regarding invitation of Delhi-based Chapter Chairs to EXECOM meetings as these Chapter Chairs are ex-officio members of the EXECOM and are already being invited to the meetings of EXECOM.

2.3 With the above change, the minutes were approved as proposed by Dr. P.N. Choudhary and seconded by Mr. M.M.S. Puri.

3 Presentation of Activity Report by Secretary

3.1 Mr. D.P. Gupta, Secretary presented the report on the activities of the Section during 2000.

3.2 Mr. P.K. Srivastava remarked that though as per the existing Section Bye-Law 5-2, Section EXECOM meetings are ordinarily to be held once every month they are being held only 4-5 times in an year. He suggested that the bye-laws could be amended suitably. In this connection it was pointed out that since a couple of years because of the improved electronic group meetings being currently available and to save conveyance expenses it has become possible for the EXECOM to meet less often and yet transact all the required business Dr. P.N. Choudhary pointed out that the existing Bye-Laws are sufficiently flexible and there may not be any need for amending the bye-laws for this.

3.3 After the discussion, the report was approved as proposed by Mr. MMS Puri and seconded by Col. J. C. Anand.

4 Presentation of Financial Accounts by the Treasurer

4.1 Dr. S.S. Jamuar, Treasurer presented the audited accounts for the year 2000. The one page report covered the various transactions under 'Receipts' and 'Disbursements' along with the

corresponding figures for the previous two years i.e. 1998 and 1999 for the purpose of comparison.

4.2 After discussions the report was approved with Mr. R.K. Vir proposing and Col. J. C. Anand seconding.

5 Introduction of the New Executive Committee

5.1 Since no petition was received, the slate proposed by the Nomination Committee was approved.

5.2 The new Executive Committee members were introduced to the House.

5.3 The incoming Chairman thanked the nomination committee and assured the members that the new Executive Committee will strive hard to organize a number of quality programs with the support, advice and suggestions from the members.

5.4 Mr. P. K. Srivastava presented the high-lights of the proposed Section bye-law amendments prepared by his committee, which was set up by the Section EXCOM for this purpose. After some discussions, it was decided that this could be first taken up by the new EXECOM Committee and then could be placed in the next General Body Meeting of the Section.

Dr. Ram Nath
Secretary, IEEE Delhi Section

Outcome of 1st EXECOM Meeting of February 01, 2001

Co-opted Members of EXECOM:
  (i) Dr. K K Subramanian
  (ii) Dr. Ranjan K Mallik
  (iii) Mr. Ravi K Aggarwal

Various Sub-committees (with 1st named member as Chairman and * marked member outside EXECOM):
(i) Membership Development
Mr. Raj Kumar Vir rajvir@ieee.org
Dr. Sudhanshu S Jamuar ssjamuar@ieee.org
Dr. (Mrs.) Mini S Thomas mini@ieee.org
Mr. Vijay K Dutt
Mr. Daman D Sood* soods@id.eth.net
(ii) Fellowship & Awards
Dr. V.R.Singh vrs@csnpl.ren.nic.in
Dr. S.Mukhopadhyay subrata@ieee.org

Dr. S.C. Dutta Roy* scdroy@ee.iitd.ernet.in
Dr.P.K.Dubey* pradeepdubey99@yahoo.com
(iii) Students & Educational Activities
Dr. (Mrs.) Mini S Thomas mini@ieee.org
Dr. Asok Bhattacharyya
bh_asok@hotmail.com
Dr. Ranjan K Mallik rkmallik@ee.iitd.ernet.in
Dr. Prerna Gaur*
(iv) Publicity & Publication
Mr. Promod K Srivastava pks@ieee.org
Dr. Ram Nath ramnath@ieee.org
Mr. Harish Tejwani htejwani@ieee.org
Mr. P.V. Ekande pvekande@yahoo.co.uk
(v) Inter-Society Relations
Dr. R.Balasubramanian balu@ieee.org
Dr. S.Mukhopadhyay subrata@ieee.org
Dr. Sudhanshu S Jamuar ssjamuar@ieee.org
Dr. Ram Gopal Gupta rgupta@mit.gov.in
Mr. M.M.S. Puri anant@nda.vsnl.net.in
Dr. K.S. Chari chari@ieee.org
Dr. K.K. Subramanian ksdir@hub.nic.in
(vi) Section History
Mr. M.M.S. Puri anant@nda.vsnl.net.in
Mr. Rajendra K Asthana asthana@ieee.org
Dr. R.Balasubramanian balu@ieee.org
Mr. Harjiwan Vyas*
(vii) Finance
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Dr. S.Mukhopadhyay subrata@ieee.org
Mr. Rajendra K Asthana asthana@ieee.org
Dr. Ram Nath ramnath@ieee.org
(viii) Technical & Professional Activities
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Dr. Sudhanshu S Jamuar ssjamuar@ieee.org
Dr. Ranjan K Mallik rkmallik@ee.iitd.ernet.in
Mr. Harish Tejwani htejwani@ieee.org
Dr. Ram Nath ramnath@ieee.org
(ix) Nomination
Mr. Rajendra K Asthana asthana@ieee.org
Dr. S.Mukhopadhyay subrata@ieee.org
Mr. M.M.S. Puri anant@nda.vsnl.net.in
Mr. Promod K Srivastava pks@ieee.org
(x) Electronic Communications Coordinator
Dr. S.Mukhopadhyay subrata@ieee.org
Mr. Rohit Joshi* rjoshi@ieee.org
(*in assistance*)
(xi) Audit
Dr. (Mrs.) Devi Chadha
dchadha@ee.iitd.ernet.in
Mr. Vijay K Dutt
(*alternate*)

Schedule of Technical & Professional Activities

March 02, 2001: 6-15 P.M.: Committee Room, EE Dept., IIT Delhi: Lecture on 'Intelligent Control Systems: Status and future perspectives' by Prof. Naresh K Sinha, formerly of McMaster University, Canada (organized by CAS-CS Delhi Chapter along with EE Dept. of IIT Delhi)

March 03, 2001: 11-00 A.M.: Committee Room, EE Dept., IIT Delhi: Lecture on 'System Identification: From frequency response to neural networks' by Prof. Naresh K Sinha, formerly of McMaster University, Canada (organized by CAS-CS Delhi Chapter along with EE Dept. of IIT Delhi)

March 16, 2001: 6-15 P.M.: Committee Room, EE Dept., IIT Delhi: Lecture on 'DTH Television' by Mr.Y.Venkateswaralu, Director (Engg.), Doordarshan Directorate, Mandi House, New Delhi (with IEE International Center and EE Dept. of IIT Delhi)

March 19, 2001: 9-30 A.M.: Auditorium, India International Center, New Delhi: Workshop on 'POWER SECTOR REFORMS' organized by Delhi Section through its PES-IAS Chapter and IEE Delhi International Center

IEEE Delhi Section in the news

The Times of India, New Delhi: February 02, 2001

Millennium Awards

The third Millennium Awards of the Institute of Electrical and Electronics Engineers Inc. (IEEE), USA were presented by its president Bruce A Eisenstein in a function at India Habitat Center to seven eminent engineers for exemplary service. IEEE in its 117th year of existence is the largest professional body of electrical and electronics engineers with membership over 352,000 from 159 countries.

Six of the seven IEEE Millennium Medal recipients of Delhi Section along with IEEE president Bruce A Eisenstein (sitting). Standing (L to R) Man Mohan S Puri, Subrata Mukhopadhyay, Harbans L Bajaj, Promod K Srivastava, Pratap N Choudhary & A Velayutham; Raj Kumar Vir (not in the picture) also received the award.

IEEE DELHI SECTION MEMBERSHIP STATISTICS AT A GLANCE
(as in end-January 2001)
Total : 1924

Grade	Strength
Honorary Member	2
Fellow	3
Senior Member	119
Life Senior Member	8
Member	655
Life Member	2
Student	402
Others	733

Chapter	Strength
C016: Computer Society	229
COM019: Communications Society	213
PE031: Power Engineering Society – IA034: Industry Applications Society	94

Chapter	Strength
CAS004: Circuits & Systems Society – CS023: Control Systems Society	51
EM014: Engineering Management Society	22

Student Branch	Strength
40336430: SJPMLIET, Radaur	67
2591901: DCE, Delhi	50
2518473: Engg. College, Ajmer	38
2510361: REC, Kurukshetra	36
2534861: JMI, New Delhi	32
2518443: PEC, Chandigarh	30
2503861: BITS, Pilani	28
2591103: MBM Engg. College, Jodhpur	9
2590001: IIT, New Delhi	10
2534811: NSIT, New Delhi	4

IEEE JMI on a Technical Visit to BTPS

as reported by
Dr Mini S. Thomas
Branch Counselor

The IEEE Student branch at Jamia Millia Islamia visited the NTPC Badarpur thermal power station on 8[h] Feb 2001. The team consisted of 20 student members and 2 staff members and was received by Mr. Madan, Manager Training at Badarpur. He explained the working of the plant and answered queries from the eager students. The students were then divided into 3 groups and were accompanied to the power plant by senior employees.

The visit began at the coal handling plant, to the pulverizer, then on to the boiler section and to the machine floor where the Turbine-Generator sets and the control rooms are located. The teams were then led out to the generator transformer and finally to the switchyard and control rooms. The students were amazed by the sheer size and complexity of the boiler unit, the turbine, the wind and steam pipes, the CBs etc. The team members were very excited as they could see what they studied about a thermal power plant and switchyard, and got a first

hand knowledge about the problems of maintaining a healthy, uninterrupted supply to the consumers.

From the desk of ECC

Dear esteemed colleagues,

Yes, we are releasing second issue of our Section *e-newsletter* **ieeedelhinews**. At the last moment I could get a report from Jamia Student Branch for publication; though I was waiting from our young budding Engineers from other Student Branches as well (who in fact came up with the queries whether or not they could send report about their Branch activities). Anyway let me hope for the future. Just few hours back only I have got also the membership update through Internet. Analysis is included in this issue. Good news - we continue to increase in strength. So if you find someone known to you have joined, please tell him to intimate his e-mail address to me so that I can include him in our 'delhi' mailing list. From the database I am not doing it for the moment. When the annual membership dues are cleared and IEEE generates new database, usually in April of the year, I will recast completely the address list effecting all the changes automatically corresponding to the new list of members.

This month we had an Executive Committee Meeting. Sub-committees have been formed. Next month we are going to have a good amount of activities, two lectures in Controls, 1 in broadcasting and a daylong workshop in power. Also look for the mega event ACE2001, the Annual Convention and Exhibition for the current year, which is going to be held in Delhi from November 01 to 03, 2001 with the theme Convergence of Technologies.

With regards,
Sincerely yours
Dr. S.Mukhopadhyay
New Delhi
February 11, 2001
(e-mail: ieeedelhi@ieee.org
URL: http://www.ewh.ieee.org/r10/delhi)

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An INTERNET Study in UK

Presented below are some facts and figures collected in UK over the period of last Christmas:

General

1) 30-40 % of worker productivity was lost due to personal use of the internet.
2) 4 out of 5 attempted online purchases fail. One third of transactions require a phone call to complete.
3) 61 % of online consumers repeat-buy at one or two sites.
4) 30% of online shoppers are willing to buy anything over the net.
5) 84 % of organisations feel the internet is not secure.
6) 62 % of organisations have no measures in place against fraud over the internet.
7) 36 % of organisations are planning to introduce new fraud measures in the next 12 months.
8) 33 % of companies that invited customers to submit enquiries by email or by filling in a form on the web responded to them all.
9) 34 % of the companies that did respond took more than 24 hours to do so.
10) 27 % of established companies had no telephone number on their website.
11) 46 % of large companies claim that they intend to implement VoIP (Voice over Internet Protocol) before the end of 2001.

Insurance

12) A resounding 100 % companies claim that they now have some sort of web presence.
13) 64 % companies say that they are currently undertaking pilot internet trading projects.
14) 89 % companies believe that they will be trading fully on the web within the next quarter.
15) A whopping 34 % of their budgets is spent in making the front end look nice.
16) But only 15 % of their budgets are spent in back-office integration.
17) Only 7 % companies have sufficient back-office procedures in place already.
18) 20 % companies admit that more planning of back-office procedures is needed.
19) 70 % of the IT Directors believe a 'virtual network' of multiple carriers and infrastructures is more likely to provide end-to-end connectivity than a single carrier with its own infrastructure.

Small and Medium Enterprises

20) 20 % SMEs haven't considered using the internet to find new business opportunities.
21) 28 % SMEs are indifferent to using the internet for increased productivity.
22) 28 % SMEs are indifferent to using the internet for better internal processing.
23) 49 % SMEs have not yet considered the impact of trading in multiple currencies.

Compiled by
Daman Dev Sood

Schedule of Technical & Professional Activities

March 19, 2001: 9-30 A.M.: Auditorium, India International Center, New Delhi: Workshop on 'POWER SECTOR REFORMS' organized by Delhi Section through its PES-IAS Chapter and IEE Delhi International Center

March 30, 2001: 9-30 A.M.: Conference Room II, India International Center, New Delhi: Talk on 'Indoor High Voltage Sub-Stations with Conventional Switching' by Mr. A.K.Tandon, Director, IRCON, New Delhi (with EMS and PES-IAS Chapter)

THE IEEE/PES T&D2002 Latin America Conference

The last date to submit the abstract of your paper for the **IEEE/PES T&D2002 LATIN AMERICA CONFERENCE** is April 30th 2001.
For more information and the schedule contact our site:

http://www.ieee.org.br/t-d2002lamerica

or write to the e-mail:

t-d2002lamerica@ieee.org

Please, divulge this information for the Members of your Chapter/ Section Cooperate to enforce the T&D2002 to be a success.
For the first time, the traditional T&D sponsored by IEEE will take place outside of USA.

The Organizing Committee

IEEE Delhi Section wins R10 Award

Quoting a communication from IEEE Region 10 it is informed that-

The winner of the R10 Distinguish Section Award in 1999 is Delhi Section in recognition to the outstanding acheivement in the membership growth and technical programs organised in the year. A certificate would be presented to Delhi Section Chairman in the coming Singapore R10 Committee Meeting. R10 would also sponsor an addition delegate from Delhi Section to attend the Meeting.

IEEE RAB Awards

In order to recognize the good work done by volunteer in the Section RAB Awards are presented every year by the IEEE. Help has been sought to identify the suitable candidate and forward to the RAB Award and Recognition Committee for their consideration.

For your information, given below are brief descriptions of RAB Awards available to individuals, industry, Sections, Student Branches. An official call for RAB Award nominations will be announced in June 2001. This information will also be distributed in the June RAB Agenda.

http://www.ieee.org/organizations/rab/rab/Awards/RABAWARDS.html

RAB Achievement Award/Up to 6 awarded annually

Purpose:
To recognize individuals involved with RAB and/or the Regional Network who are recognized for singular achievement in the development and completion of a project(s) or activity(ies) which are directed to the fulfillment of one or more of the goals and objectives of RAB. This award is designed to recognize those substantive projects or achievements of relatively short nature (one to three years) but which have left an undeniable imprint on the fabric of Regional Operations.

Award Instrument: Engraved plaque and cash prize RAB Innovation Award/1 awarded annually

Purpose:
To recognize the accomplishment judged to be the most innovative and effective in fulfilling one or more of the goals and objectives of RAB and/or the personal goals of the Vice President of Regional Activities.

Award Instrument: Engraved plaque and cash prize

RAB Larry K. Wilson Transnational Award/1 awarded annually

Purpose:
To recognize the accomplishment judged to

be the most significant and effective in fulfilling one or more of the Transnational goals and objectives of RAB and/or personal goals of the Vice President of Regional Activities as related to Transnational activities. This award is made in memory of Dr. Larry K. Wilson.

Award Instrument: Engraved plaque and cash prize

RAB Leadership Award/Up to 3 awarded annually

Purpose:
To recognize those individuals who have exhibited exemplary and substantive leadership of an extraordinary nature in implementing activities which support RAB goals and objectives at the local, regional, national, and/or international level.

Award Instrument: Engraved plaque and cash prize

Friend of IEEE Regional Activities/ No annual limit

Purpose:
The Friend of IEEE Regional Activities award was created to specifically recognize support provided to the Institute of Electrical and Electronics Engineers (the Institute) and its members in support of its goals by firms, divisions of firms or individuals.

There are two types of Friend of IEEE Regional Activities

Awards: Individual and Organizational. In addition, each award can be earned at two levels: Supporting and Sustaining Friend.

Supporting Awards. It is up to the volunteer to nominate an individual or company for the award. The nominator will submit a one page typed justification to the Regional Activities

Board Awards and Recognition Committee (RABARC) on why the award should be given to the individual or firm nominated. Specific examples of support

are required, generalized and unsupported statements will not be sufficient. In general, the proposed recipient should have a long (minimum of one full year) history of providing support to the volunteer. Supporting awards can be made for truly extraordinary examples of singular events, for example, assistance provided to host an IEEE conference or meeting. Winners must wait at least one year from receipt of the award before they can be resubmitted for another Friend of IEEE Regional Activities award.

Sustaining Friend Awards. Recipients of these awards must meet all of the conditions of the Supporting Award and must have demonstrated this support for a minimum period of three years and must have won a supporting award at least once during the period in question, usually three to five years. The nominator will submit a one to two page typed justification to RABARC on why the award should be given to the individual or firm nominated.

Award Instrument: A plaque for Sustaining Friend recipients.

A certificate for the Supporting Friend recipients.

GOLD Awards

Outstanding GOLD Program Award/ 1 awarded annually

Purpose: To recognize the outstanding GOLD Committee in the IEEE.

Section GOLD Leadership Recognition/1 awarded annually

Purpose: To recognize GOLD Committees and their Chair at the Section level.

Society GOLD Leadership Recognition/1 awarded per Society annually

Purpose: To recognize GOLD Committees and their Chair in Societies.

Region Outstanding GOLD Program Award/1 awarded per Region annually

Purpose: To recognize the outstanding Section GOLD Committee at the Region level.

Award Instrument: The recipients of the Outstanding GOLD

Program Award and Region Outstanding GOLD Program Award receive a plaque. A certificate is issued for all other GOLD Awards.

Section Membership Growth Award/ 1 per Region annually The Regional Activities Department will automatically generate statistics for submission to RABARC.

Purpose:
To recognize the Section in each Region having achieved the highest rate of growth.

Basis of selection: Greatest level of growth will be based on a composite rating, considering the highest percentage of increase in membership and highest increase in new elections relative to other sections in good standing within each region. To qualify a Section must have the required maintenance level of 25 members as of the start of calendar year in which the award is given.

Award Instrument: certificate

Student Branch Membership Growth Award/ 1 per Region annually The Regional Activities Department will automatically generate statistics for submission to RABARC.

Purpose:
To recognize the Student Branch in each Region having achieved the highest rate of growth.

Basis of Selection: Greatest level of growth will be based on a composite rating, considering the highest percentage of increase in membership and highest increase in membership relative to other

student branches within each region. To qualify a Student Branch must have a minimum of 20 members at the start of the fiscal year under consideration.

IEEE DELHI SECTION MEMBERSHIP STATISTICS AT A GLANCE
(as in end-February 2001)

Total : 2029

Grade	Strength
Honorary Member	2
Fellow	3
Senior Member	119
Life Senior Member	8
Member	706
Life Member	2
Student	434
Others	755

Chapter	Strength
C016: Computer Society	239
COM019: Communications Society	219
PE031: Power Engineering Society – IA034: Industry Applications Society	97
CAS004: Circuits & Systems Society – CS023: Control Systems Society	55
EM014: Engineering Management Society	24

Student Branch	Strength
40336430: SJPMLIET, Radaur	67
2591901: DCE, Delhi	49
2518473: Engg. College, Ajmer	57
2510361: REC, Kurukshetra	36
2534861: JMI, New Delhi	33
2518443: PEC, Chandigarh	30
2503861: BITS, Pilani	28
2591103: MBM Engg. College, Jodhpur	9
2590001: IIT, New Delhi	8
2534811: NSIT, New Delhi	5

A Report from Student Branch, Engineering College, Ajmer

CEERI Trip

AELCOM organized an educational tour to Central electronics engineering research institute (CEERI) situated at Pilani. CEERI is one of the leading research institutes of India. It carries out innovative research in the fields of defense, IC design and fabrication , thick film technology, vacuum tube technology and many others.

A group of 55 students of Engineering College Ajmer left for CEERI, Pilani on 19th January 2001. The students visited various labs in the institute, viz. Information Theory lab, VLSI design lab, HMC fabrication lab, digital system lab etc. The scientists at the institute were interested in demonstrating and explaining the students about their research projects and recent developments. Students spent full day at the institute. In the evening, refreshment was provided to the students. In the end, the students were addressed by Mr. K.L. Jasuja Acting Director, CEERI.

Workshop on PC Assembly

AELCOM organized a workshop on PC Assemby. Mr. Shalabh Agarwal, a graduate from university of Roorkee, with his team of experts demonstrated the process of assembly of a personal computer. The workshop was opened to non-IEEE members also. Around hundred students of Engineering College Ajmer participated and sought the practical knowledge about motherboard, different types of disc drives and various hardware parts in a PC. The students also came to know in detail about connecting various parts of computer and setting up of windows in it. The workshop lasted for about three hours. Various queries about the subject were also entertained.

Excerpts from SCOOP - March 2001

SPECIAL GIFT INCENTIVE OFFERED TO VOLUNTEERS WHO SPONSOR AN IEEE COOPERATIVE DISPLAY

A special gift incentive is being offered by the IEEE Exhibits department to encourage IEEE volunteers to sponsor a Cooperative Display at a trade show, technical conference, or meeting. The Cooperative Display program supports membership recruitment by providing volunteers with membership applications, promotional posters and flyers, product catalogs, IEEE magazines, and promotional items. The Exhibits department will pay up to $250 of shipping, printing, and labor charges in the United States, and up to $500 outside the United States.

For more information, contact Linda Riley, Sales & Marketing, at + 1 732 562 3995 or by email at MailTo: l.riley@ieee.org at least six weeks prior to your event with the date, shipping address, number of attendees and name of the person who will staff the display.

IEEE MEMBERSHIP NUMBERS EXCEED EXPECTATIONS

The year end numbers are in? IEEE membership totaled 366,135 in 2000, exceeding the membership development goal of 365,000. Higher-grade memberships grew 3 percent to total 307,815 members, while student memberships climbed to 58,320, a 9.5 percent growth rate. Both represent record membership numbers for the IEEE. The number of Senior Members also hit a new milestone in 2000, now totaling 26,394.

The five fastest growing IEEE Societies were:
1.Lasers and Electro Optics, +17.1 percent
2.Microwave Theory and Techniques, +7.9 percent
3.Solid-State Circuits, +7.7 percent
4.Communications, +6.3 percent
5. Power Electronics, +5.3 percent

For more information, visit http://www.ieee.org/organizations/rab/md/jan01prog.html, or contact Bill Hunter at w.hunter@ieee.org.

COMMEMORATE WOMEN'S HISTORY WITH THE IEEE HISTORY CENTER

The IEEE History Center is celebrating Women's History Month in March by recognizing some of the Women electrical and computer engineers who have made significant contributions to their fields.

For more information on historically significant women engineers, visit "http://www.ieee.org/organizations/history_center/whm.html", or to become a member of the IEEE Women in Engineering committee (IEEE-WIE), visit "http://www.ieee.org/organizations/committee/women/".

IEEE XPLORE ABUSES ADDRESSED

IEEE Xplore reacts to each legitimate and illegitimate requests. The abuses of the database falls include systematic downloading of articles to recreate all or part of the database; and robot searches in which programs are sent into IEEE Xplore to find and retrieve specific information. Both can lead to a user being shut off from the system.

These large-scale and repetitive requests drain server and staff resources, damage hardware and software, and result in more time and funds being invested in research, development and implementation of new systems.

The abuses also block legitimate users from IEEE Xplore and may impact other IEEE Web services such as renewal or conference search.

The IEEE is reminding members not to share user names and passwords and that automated search agents are not permitted. Abusers will be notified and their access terminated. Forty accounts have been suspended for abuse of Xplore.

For more information, contact Joe Dillon, IEEE Sales and Marketing, telephone +1 732 562 3863; MailTo:"j.dillon@ieee.org".

From the desk of ECC

Dear *esteemed colleagues*,

Sorry for being late in releasing the third issue of our Section *e-newsletter* **ieeedelhinews**. In fact only two days back I received the web update of our membership database. Possibly for taking into account massive renewal, IEEE HQ. took time. A good news – after 1999 while there was downward trend of active members, now again it has crossed 2000 mark for our Section. Next month I am expecting the new consolidated database of the year. Using the same I wish to revise the circulation list of our Section. Of course from certain new members I am getting request for inclusion of their e-mail addresses, which I am promptly doing. At the same time as posting for circulation is totally restricted, I request you to send information, you wish to share with the members, to me only; *never, never* trying on the list, as it will be bounced under intimation to me about the sender, but not the contents.

As you are aware this year being the *Silver Jubilee Year* of the Section (with Section completing 25 years of its existence on May 13, 2001), we are trying to have a special general body meeting in mid-May to revise our by-laws as per IEEE guidelines and for other activities as well. Along with this in order to complete the records in a systematic manner an attempt has been made to update the Section History. Please look at the concerned web-page available at http://www.ewh.ieee.org/r10/delhi/hist.html As this has been constructed mainly with the help of reports of Secretaries presented in the AGMs and taking into account those re-compiled by IEEE while approving the Section rebate, due to non-coherency you may, however, find somewhere attendance

and somewhere title of topic could not be reported. Of course these are few only.

This month we are going to have an Executive Committee Meeting on March 22. Already we had two lectures in Control, one in Broadcasting; two more are coming up in Power area. Further, watch for the announcement coming shortly on the mega event ACE2001, the Annual Convention and Exhibition for the current year, scheduled from November 01 to 03, 2001 in Delhi.

With regards,
Sincerely yours
Dr. S.Mukhopadhyay
New Delhi
March 18, 2001
(e-mail: ieeedelhi@ieee.org
URL: http://www.ewh.ieee.org/r10/delhi)

REPORT OF WORKSHOP ON 'POWER SECTOR REFORMS'

Honorable Union Minister of Power Mr. Suresh P. Prabhu (center) releasing the souvenir while Mr. Amitabh Agrawal, IEE Delhi International Center Chair (left) and Mr. C.P.Jain, CMD, NTPC (right) look on

A workshop on 'Power Sector Reforms' was held at India International Center, New Delhi on March 19, 2001. Organized by the Delhi International Center of the Institution of Electrical Engineers (IEE) and the Delhi Section of the Institute of Electrical and electronics Engineers (IEEE), the event had more than 150 participants. Mr. Amitabh Agrawal, IEE Delhi International Center Chair and Dr. S.Mukhopadhyay, IEEE PES-IAS Delhi Chapter Chair in their address welcoming the delegates on behalf of both the professional body explained the background of holding such workshop and expressed hope that deliberations would lead to consensus in following the path of power sector reforms. While inaugurating the workshop Honorable Union Minister of Power Mr. Suresh P. Prabhu stressed the need of the hour for reforms to deliver affordable power to the ultimate consumer. With generation, transmission unbundled for due competition, in this context he drew the attention of power professionals to the revamping of distribution system for quality power supply with proper realization of revenue through energy audit, even by monitoring feeder-wise. In the keynote address of Mr. K.N.Sinha, Member (Planning), Central Electricity Authority analyzing the reasons of poor performance of SEBs, need for reforms, progress vis-à-vis achievement considering the three distinctive entities, namely, Regulatory Commission, Utility and Consumer were placed. Speakers in the inaugural session also touched upon the progress in this important task elsewhere in the world starting from UK and the necessity of privatization of distribution system by breaking down to smaller manageable areas. The necessity of competition departing from the traditional monopoly system in view of ever increasing demand of energy, typical for a developing country like India was also stressed with the harnessing of hydro potential and restricting environmental emissions. Prof. T.S.M.Rao, IEE Delhi International Center Honorary Secretary proposed a vote of thanks to the dignitaries present in the inaugural session.

Besides the inaugural session dwelling on the theme, the workshop had sessions on Reforms in Distribution Sector and Issues & Challenges for Private Sector Participation. It ended with a panel discussion. Altogether *ten* papers were presented.

In the session on Distribution Sector, speakers stressed the need of regulation, effective MBC (Metering, Billing and Collection) System, proper assessment of T & D Losses for reduction, economic valuation of assets towards rational fixing of tariff at the time of privatization. Fear of unknown, particularly during transition period, reform with utmost sincerity with a view to *not to go back* and its dependence on allied sectors, importance of MIS vis-à-vis updating of accounts to win trust and confidence of consumers were the other points highlighted. On the issue of T & D

Losses, experience of Orissa by analyzing at various levels from EHT level down to consumer, changing of loss configuration with the mixing of HT and LT sale complexion was reported. As a large consumer Indian Railways presented their viewpoints on the requirement of cost-based tariff, setting up of captive power plant to supplement the supply system, role of regulator in fixing tariff, etc.

Afternoon session on Private Sector Participation went through the salient features of 'Electricity Bill 2000' (as proposed earlier) in the context of Electricity being in the concurrent list, role of Regulators to insulate the Utilities, genesis of reform to attract additional investment, followed by corporatization and ultimately going for privatization. Citing example of Delhi, stress was given for MBC (with hand held unit for downloading meter reading), accountability, use of IT, incentive-based scheme, etc. In the context of long turn around period for distribution companies, as mode of privatization lease or outright sale could be thought of, it was told.

In the panel discussion, Chaired by Mr. T.N.Thakur, CMD, Power Trading Corporation, panelists placed their views about the necessity of reforms in the background of low financial credibility of SEBs, lack of accountability, frightening figure of T & D Losses, cross subsidy tempting industry to put captive generation, etc. thereby calling for structural changes in the electric supply industry itself. It might follow one of the basic four models adopted so far, depending on suitability through proper evaluation. Control of thefts (in SEBs), assured power to agriculture sector even at premium cost, third party sale by generating company (through transmission access), low cost of power production through use of indigenous coal with privatization of coal industry, budgetary support and profit of SEB for growth were felt as need of the day. To come out of crisis suggestions were floated to implement Operational Finance Action Plan (OFAP), to seek for alternative indigenous solution to problem, strengthening of distribution circles

with progressive metering and delegation of authority with accountability.

However, use of captive power plant, costly liquid fuel option, use of inverters and DG sets were questioned. New policy in reform envisaged participation of private parties following unbundling of electric utilities. Though progress had been slow, with level playing ground and same condition prevailing for all, it would be possible to arrive at most competitive generation cost. With confident resources in power sector, like, NTPC, BHEL, etc. available, every effort should be made to export their know-how in power generation outside the country too. With consumer ready to pay, opinion was expressed for third party sale, fixing up accountability at every level, making distribution system healthy and continuation of budgetary support for some time more (during transition period of reform).

WE ALL MADE IT: Volunteers and Organizers of the Workshop - *Standing: Mr. Amitabh Agrawal (8th from the left), Dr. Mini S. Thomas of IEEE (10th) and Prof. R.Balasubramanian of IEEE (12th); Sitting: (from L to R) Dr. K.K.Govil of PFC, Mr. Geoff Hayton of DFID, Dr. S. Mukhopadhyay of IEEE, Gp. Capt. P.L.Rishi (retd.) of IEE, Prof. T.S.M.Rao of IEE and Mr. N.Venkatesan of IEE*

The workshop ended with the summing up of proceedings of the day and vote of thanks by Prof. R.Balasubramanian, IEEE Delhi Section Chair.

SUNTING
(Surfing the Net)

This small note tries to explain how easy it is to get lost on the Net, the reasons and the latest developments in this field.

Any one (referred as the Sunter in this note) who has ever tried to retrieve any information from the Web, would not be surprised to know that typing in "Hindi distributors" results 100 thousand million (or so) hits and its matter of shear luck if the pages containing relevant information are within the first 10 or 20 pages (*the rest is any way not worth having look at*).

Let's try to see what causes this.

There are three reasons:

- The size of the web
- The way the search is carried out, and
- The limitation on amount of search that can be conducted

The last one is direct implication of the first one.

The size of the web

A study depicted that 3 years ago, the Web contained around 320 million pages – *this number today is expected to have grown to 1000 million.*

The way the search is carried out

This is the main reason and will consume most part of this note.

The starting point for any search engine is to carry out a first pass through its index to find all the documents containing the search items. They then use a formula to prioritize the hits. The most commonly used formula is "pull the document according to the frequency with which the search item appears in it, the position at which it appears and/ or combination of both. Some clever search engines look in the document's title or Hyperlink only and thus restrict the search results to low volume(!). But the web

authors are cleverer species hence they often deliberately cheat the search engine by repeating the same key words over and over again in the metadata they provide to describe a page (*and thus establishing the supremacy of the human brain over the machine once again!*).

The limitation on amount of search that can be conducted

It has been estimated that 3 years ago only 33% of the pages could be indexed on any one of the best search engines. This figure, today, has dropped down to about 16%. Another research established that currently there is a six-month time lag between a new page being published and its appearance on any research engine.

These factors have effected the Sunter in the following way:

Currently he has comprehensiveness – getting *all* the pages he wants – which is in direct conflict with the goal of relevance – *only* the pages that he wants.

So what's the latest in this field?

When individuals like me can put any information on the web (FREELY – Yes, most ISPs these days provide up to 50 MB free space on the web, I currently have active accounts with 5 ISPs and there is almost no limit to how many I can have at a time. I have so far used only about 2 MB of all that space, in creating my personal site – only limitation is my time, I wish this was my full time job) – I believe there is no way we can restrict the size of the web.

An attempt by search engines like Altavista to increase web coverage is by the use of Web Crawlers. These are utilities that automatically hunt out new pages and add them to the search engine's index. Altavista claims to have the most comprehensive and up-to-date Internet Index as it now covers 140 million pages refreshed every 28 days. Automatic Crawlers might have increased the number of pages visible to search

engines but they have also increased the number of hits for each search and have resulted in increased volume of results thrown to the user (Sunter!).

In the light of the above two points, it's the 'way the search is carried out' that provides the best opportunities for improvement. The following techniques are becoming popular:

- Looking beyond the document's contents and to judge a document's importance according to its relationships with other documents (also known as popularity method)
- Directly analyzing the users' behavior
- Limiting the scope of the search

Popularity method tries to identify the most relevant information by analyzing the hyperlinks between the web pages. In the first pass the engine comes out with a set of pages, it then calculates the weightage for each page according to number of other pages referring to it and then displays the results to the user in this priority (by weight).

The Direct analysis method looks at the users' behavior. It determines how often they select one link rather than another and how long they spend at the sites visited to determine which are the core pages that will meet a search criterion. The downside is that the result is limited to subjects that have already been extensively frequented by other web users.

The strategy to limit the scope of search is to have smaller domains or the specialist search engines – this seems to be the most realistic solution as far as the Sunters are concerned. For example a beer site claims to be the first search engine focussed specifically on the brewing industry. Those searching for data about brewing industry will definitely get better results from this engine instead of typing the words 'beer' and 'industry' on an ordinary search engine. To conclude, it can be envisaged that the all-purpose search engine may be a hypothetical probability of near future. Engines for specific tasks and even specific

subject areas are going to be the only feasible way forward for WIR (web information retrieval – this is what we have learnt from Microsoft – make as many meaningless, clueless acronyms as possible).

The following is a tabulation of some of the most popular (or coming up) search engines according to the technique used for search:

First Generation Engines	Second Generation Engines		
	Popularity Method	User Behavior	Smaller Domains
Altavista	Google	Directhit	Muscat
Yahoo	IBM's Clever		Inktomi
Infoseek			Autonomy
Lycos			Beer.com
Excite			Euroferret
			Empower
			Northern Light

By the way, Sunting is my own term and stands for 'Surfing the Net' and I have only, for the sake of ease, assumed the Sunter to be male, I do not at all support Sexual Discrimination.

Compiled by
Daman Dev Sood

Schedule of Technical & Professional Activities

April 25, 2001: 6-15 P.M.: Talk on 'Trends in SCADA / EMS & Telecommunication in Indian Power Sector' by Mr. R.N.Nayek, POWERGRID, New Delhi in the Committee Room, EE Dept., IIT Delhi (by PES-IAS and ComSoc Chapters)

PES REGIONAL OUTSTANDING AWARD

According to the information received from PES HQ. source, Prof. B. Prasad Singh of EE Dept., IIT Delhi is the recipient of Regional Outstanding Award for this year for the Region 10. The award will be handed over to Prof. Singh in the Summer Power Meeting in Vancouver, Canada in July 2001. It may be recalled that earlier he had been the

Section Vice Chair, PES India Chapter Chair and the founder Chair of PES-IAS Delhi Chapter. In the year 2000, he received also the Outstanding Chapter engineer Award from PES-IAS Delhi Chapter. Section lauds Prof. Singh for his achievement.

2000 PES Outstanding Chapter Engineer Award recipient Prof. B. Prasad Singh (center) of Indian Institute of Technology Delhi receiving the plaque from IEEE President on December 19, 2000 while at the background the then Section Chair Mr. Rajendra K. Asthana & ex-Region 10 Director Mr. Harbans L. Bajaj (right & left of Prof. Singh) look on at the Silver Oak Hall No. I of India Habitat Center, New Delhi

IEEE DELHI SECTION MEMBERSHIP STATISTICS AT A GLANCE
(as in end-March 2001)

Total : 2116

Grade	Strength
Honorary Member	2
Fellow	3
Senior Member	122
Life Senior Member	8
Member	717
Life Member	2
Student	504
Others	758

Chapter	Strength
C016: Computer Society	254
COM019: Communications Society	220
PE031: Power Engineering Society – IA034: Industry Applications Society	100
CAS004: Circuits & Systems Society – CS023: Control Systems Society	59
EM014: Engineering Management Society	26

Student Branch	Strength
40336430: SJPMLIET, Radaur	67
2591901: DCE, Delhi	49
2518473: Engg. College, Ajmer	57
2510361: REC, Kurukshetra	36
2534861: JMI, New Delhi	33
2518443: PEC, Chandigarh	75
2503861: BITS, Pilani	28
2591103: MBM Engg. College, Jodhpur	18
2590001: IIT, New Delhi	9
2534811: NSIT, New Delhi	4

Excerpts from Leadership Wire
(23 March 2001 Vol. VI, No. 6)

NEW VOLUNTEER GLOBAL TRAVEL ACCIDENT/MEDICAL PLAN

The IEEE has established a new travel accident and medical plan to protect volunteers who become ill or injured and require immediate medical attention while traveling abroad on authorized IEEE business. The plan went into effect 1 Jan. and provides protection equal to 80 percent of medical expenses (subject to terms and conditions of the policy). The plan is funded by the IEEE and provided at no charge. An individual's personal insurance health plan is considered primary, but if he or she does not have insurance, then the IEEE plan

becomes the primary coverage. For more information, visit

"http://www.ieee.org/organizations/vols/global_trav_acc_med.html".

INCENTIVE OFFERED BY IEEE COOPERATIVE DISPLAY PROGRAM

A special gift incentive is being offered by the IEEE Cooperative Display program to encourage IEEE volunteers to sponsor an exhibit at a trade show, technical conference or meeting. The program supports membership recruitment by providing volunteers with membership applications, promotional posters, items and flyers, product catalogs and IEEE magazines. For more information, contact Linda Riley, IEEE Sales & Marketing, at + 1 732 562 3995 or at MailTo:"l.riley@ieee.org" at least six weeks prior to the event with the date, shipping address, number of attendees and name of the person who will staff the display.

From the desk of ECC

Dear *esteemed colleagues*,

First of all let me congratulate all those who are at the helm of affairs in running our Student Branch at Punjab Engineering College. They have touched strength of 75, presently the highest among our *ten* Student Branches. For the first time our PES-IAS Chapter too has achieved three-digit number of membership. Thanks to all the new comers. Our Section strength has crossed 2,100 mark and is showing an upward trend, which is very encouraging for all the volunteers of IEEE over here. We will like to see as maximum as possible of the Section Members in our Special AGM scheduled on May 13, 2001 when our Section completes its journey of quarter of a century. In fact May 13 is also the foundation day of IEEE. We invite your suggestions to commemorate the event.

With regards,
Sincerely yours
Dr. S.Mukhopadhyay
New Delhi
April 12, 2001
(e-mail: ieeedelhi@ieee.org
URL: http://www.ewh.ieee.org/r10/delhi)

ieeedelhinews
vol 01 no 05
may 2001

From the desk of ECC

Dear *esteemed colleagues*,

This time I have to change the format little bit. There are two important forthcoming events. First one on May 13 at 10-30 A.M. in the Lecture Hall at India International Center (Annexe) is concerning our Section's Special General Body Meeting on the occasion of Silver Jubilee celebration of its existence. We will honor our *eight* Life Senior Members, *two* Life Members and the newly elected Fellow Dr. Pradeep K. Dubey, who will be delivering also a lecture in the area of 'Multi-media Applications'. Besides these, we are seeking approval of modified by-laws of our Section.

The other event is the Annual General Meeting of our ComSoc Delhi Chapter on May 19 at 10-00 A.M. in the Maple Hall at India Habitat Center. Chapter Chair has extended invitation to all IEEE Members to attend, more specifically Seminar on 'E-Business Models & Strategies and 3G Systems', details of which have been shown under Schedule of Technical & Professional Activities elsewhere.

Further for the mega-event of the year IEEE ACE2001, certain updates have been announced. But as now at IEEE HQ. there will be an overhauling of membership database, I am not in a position to report you our Section membership statistics. Possibly in the next issue in June, data for April and May have to brought out.

With section rebate just received, we are in a comfortable position. Please come forward and suggest for more and more technical, educational and professional activities in different areas covered by IEEE.

Hope to meet you on next Sunday at Special General Body Meeting of the Section.

With regards,
Sincerely yours
Dr. S.Mukhopadhyay
New Delhi
May 08, 2001
(e-mail: ieeedelhi@ieee.org
URL: http://www.ewh.ieee.org/r10/delhi)

IEEE ACE 2001 Updates

Following tutorials have been offered for the first day (November 01, 2001) of the event:
(1) CONTROL: "Tuning of Industrial Controllers" & "A Probabilistic Approach to the Analysis & Synthesis of Robust Controllers" by Prof. Marco Campi of University of Brescia, Italy.
(2) VLSI: "Code sign Tools for Architecture Microsystems" & "Design Technology & Architectural Adaptation for Deep Sub micron VLSI Systems" by Prof. Rajesh Gupta of University of California, Irvine.
(3) POWER: "Microprocessor-based Protection for Power Systems" by Prof. Mohinder S. Sachdev, *formerly of* University of Saskatchewan, Canada.

Please contact Dr. S.Mukhopadhyay (subrata@ieee.org) or Prof. R. Balasubramanian (balu@ieee.org) for registration and other details in this regard.

Schedule of Technical & Professional Activities

May 13, 2001: 11-00 A.M. (during Special General Body Meeting of Section): Talk in the area of 'Multi-media Applications' by Dr. Pradeep K. Dubey, IBM Solution Center, IIT, New Delhi in the Lecture Hall (Basement) India International Center (Annexe)

May 19, 2001: 10-00 A.M. (during Annual General Meeting of ComSoc Delhi Chapter): Seminar on E-Business Models & Strategies and 3G Systems: Talk on 'E-Business Models

and Strategies' by Mr.P.K.Gupta, Director of Engineering, Legato India and Talk on '3g mobile communication systems' by Mr. Harish Tejwani, Hughes Software Systems, Gurgaon (Haryana) at Maple Hall, India Habitat Center

Excerpts from Leadership Wire
(13 April 2001 Vol. VI, No. 7)

WILEY AND IEEE PRESS IMPLEMENT CO-BRANDING AGREEMENT

IEEE Press and John Wiley & Sons, Inc., implemented their co-publishing agreement on 2 April. Wiley assumed responsibility for the sale and distribution of more than 180 IEEE Press titles, as well as the production of new titles under the name, Wiley-IEEE Press. Members and customers who call the IEEE Customer Service number are being connected to Wiley for IEEE Press book orders. Mail and fax orders also are being forwarded to Wiley. IEEE members will receive a promotion code entitling them to a 15 percent discount on Wiley-IEEE Press titles.

In addition, links on the IEEE Online Store and Catalog now direct customers to Wiley's online catalog. For more information, contact Ken Moore, IEEE Book and Information Services, at Mailto: "k.moore@ieee.org".

NOMINATIONS SOUGHT FOR IEEE REGIONAL ACTIVITIES OFFICES

The IEEE Regional Activities Board (RAB) Nominations and Appointments Committee is seeking candidates for these positions to serve on the 2002 IEEE Regional Activities Board:

* 2002 RAB Chair
* 2002 RAB Treasurer
* 2002 RAB Vice Chair - Region, Section, Chapter Activities
* 2002 RAB Vice Chair - Member Activities
* 2002 RAB Vice Chair - Strategic Planning
* 2002 RAB Vice Chair - Student Activities

The nomination deadline for RAB Chair is 1 May 2001, and 15 June 2001 for other positions. Candidates will be requested to submit a biographical statement, position statement and letter discussing their willingness to serve. Self nominations are permissible. For more information, visit "http://www.ieee.org/organizations/rab/rab/ra-assembly.html" or contact Daniel Toland, IEEE Regional Activities, at +1 732 562 5515 or Mail To: "ra-admin@ieee.org".

IEEE E-BUSINESS MILESTONE: WEB RENEWAL EXCEEDS 100,000

More than 103,000 members have renewed online so far in the 2001 cycle. This is the most ever since the online process began in 1999 when the number was 32,000. There were 75,000 online renewals in 2000. Online renewals have accounted for more than US$14 million in total revenue for this cycle. With paper and phone renewals, the total count is 272,048 and approximately US$26 million in revenue.

Two new features were added to the Web Renewal application this year. Members can directly update their record in the database, saving up to 30 percent in handling costs, and those renewing online have instant access to electronic products.

Excerpts from SCOOP
(April 2001)
SECTIONS SHOULD BE NOMINATING SENIOR MEMBERS

The IEEE Membership Development Committee has set a goal of 1, 500 New Senior Members (SM) in 2001. Based upon the number of Member grade members in each Region, goals have been set for the number of new Senior members that should be nominated and elected in 2001.

It's really quite simple for your Section to get recognition for your worthy Members as well as to reward the Section. First, form a "Section SM Nominating Committee" made up of Senior Members and Fellows. This committee should review the list of Member

grade members with ten years professional experience (not ten years IEEE membership) and 5 years significant performance. Your Section's SAMIeee recipient can provide this information. By having a member of Senior or Fellow grade nominate the person, their nomination is accepted in lieu of one written reference. That means that these Senior Member nominees need only two more written references. Other members of the Section SM Nominating Committee familiar with the prospective SM nominees should be the two additional references to complete the forms.

Newly elected Senior Members get an attractive plaque and an IEEE $25 voucher, good for one new free IEEE Society membership. The Section gets $10 and a very happy Senior Member (probably for life) and one often willing to take a more active role in the Section. Newly elected Senior Members should be immediately invited to join the Section SM Nominating Committee.

Be sure to add the name of the Section to the "Nominating Entity" line on the Senior Member application form for the Section to earn $10 for every successfully elected new Senior Member. This can help finance future Senior Member nominating efforts and recognition activities. For details on the "Nominate a Senior Member Initiative" program (NSI) as well as to access Senior Member application/ nominating forms and reference sheets visit http://www.ieee.org/organizations/rab/md/sminitiative.html.

ieeedelhinews
vol 01 no 06
june 2001

From the desk of ECC

Dear *esteemed colleagues*,

Yes, we met on Sunday, May 13, 2001 at India International Center to celebrate Silver Jubilee of existence of our Delhi Section. We had considerably good gathering of members coming with spouse to join Special General Body Meeting of the Section.

Col. Anand (retd.), Life Senior Member of IEEE being honored by Hon'ble Justice, Supreme Court Ms. Sujata Manohar; also seen in the picture (L-R) Section Chair Prof. R.Balasubramanian, Secretary Dr. Ram Nath & T&P A Sub-com Chair and ECC Dr. S. Mukhopadhyay

Besides passing the new Section by-laws (placed at the end of this issue of e-newsletter), we had the privilege of honoring Life Senior Members / Members present, namely, Col. J.C.Anand (retd.), Dr. P.Kundu, M/S V.N.Manohar S.K.Zaheer & Swaranjit Singh. On this occasion, newly elected Fellow Dr. Pradeep K. Dubey of IBM India Research Lab at IIT Delhi was also

felicitated. He gave a talk on 'Architectures: Multimedia and Beyond'.

Dr. Pradeep K. Dubey, FIEEE being felicitated by Dr. V.R.Singh, FIEEE; sitting in the dais (L–R) are Section Treasurer Prof. Sudhanshu S. Jamuar, Vice Chair Mr. Raj K. Vir, Chair Prof. R.Balasubramanian & Secretary Dr. Ram Nath

Last time I couldn't give the statistics of Section membership. It has drastically fallen from a level above 2,000 to 1,100 *plus* in April 2001. However, strength has increased partially in the following month. Both the sets of figures find place elsewhere in this e-newsletter. While I am still following the old addresses, I make an appeal to RENEW YOUR IEEE & SOCIETY MEMBERSHIP FOR 2001, IF YOU HAVEN'T YET.

With regards,
Sincerely yours
Dr. S.Mukhopadhyay
New Delhi
June 09, 2001
(e-mail: ieeedelhi@ieee.org
URL: http://www.ewh.ieee.org/r10/delhi)

THE UK NUMBER GAME

Presented below are some facts and figures collected in UK at around the beginning of the year 2001:

E-Biz

1. 75% of senior managers say they use or plan to use the internet for key business processes within twelve months, but

only half admit they understand what a truly web-enabled business is.

2. 56% of companies with an e-business strategy in place say the chief executive is the e-champion. Typically, chief executives are making statements such as 'we must become an e-business', yet research could not identify what an e-business is.

3. 79% of large organisations have written e-strategy.

4. 20% of SME's have written e-strategy.

5. 98% of all respondents have no centralised control over their web development.

Insurance

6. 17% of insurance companies say they are already making a profit from e-commerce channels.

7. 36% expect to make profit within the next twelve months

8. 31% expect to make profit within one to two years.

9. 8% expect to make profit within two to three years.

10. 8% say it will take them longer than three years to make profit.

11. 75% of insurance companies say that clicks-and-mortar operations with a presence on the high street and the internet are winning the e-commerce battle.

12. 25% of insurance companies say that insurers who operate only on the internet lead the e-commerce battle.

General

13. 39% of senior decision-makers believe that it is possible for their company to suffer an undetectable security breach.

14. 66% of IT managers admit that the same organisation could be attacked without them being able to detect the breach.

15. 54% of IT managers do not have a security breach incident response plan.

16. 63% of senior decision-makers within the same organisation are under the impression that a security breach incident response plan is in place.

17. 50% of all information stored in half of the Times Top 3000 companies is out of date, duplicated or unused.

18. 92% of top companies prefer to rely on their IT managers to make decision about the types of data that are stored, who sees it and how it is 'mined' through out the organisation.

19. 26% of top companies have no data management policy in place.

20. 3% of top companies hold supplier information.

21. 2% of top companies store the sales histories of their customers

22. 20% of top companies did not know whether data stored was of use or not.

23. 47% of top companies did not spend any of their IT budget on storage, in spite of the fact that 29% claimed that their data requirements had risen by up to 40%.

24. 84% of tope companies did not know the cost of data downtime to their business, yet half of those surveyed had suffered downtime due to storage-related issues.

25. 78% of consumers said that security and privacy top their list of web worries.

Daman Dev Sood
Tata Consultancy Services

Schedule of Technical & Professional Activities

June 21, 2001: 6-15 P.M.: Talk on E.H.V. Transmission System, its operation, maintenance and use of Silicone Insulator for 220 kV lines' by Mr. S.C.Jain, Yamuna Gases & Chemicals Ltd., Delhi in the Conference Room No. II, India International Center

June 25 & 26, 2001: Seminar on 'Network Synchronization' by Mr Andre Marais, Datum Irvine, CA, USA at Hotel Hyatt Regency, New Delhi (being organized by AES-COM-LEO Societies India Chapter & ComSoc Delhi Chapter). Participation by Registration only. Registration Fee: Rs.5,000. IEEE, IETE, IEDP, and other professional society members may avail discount of 10%. Students Registration Fee: Rs.1,500/- only. DD/Cheque is to be sent to Dr. Ram Gopal Gupta (Chair IEEE-AES-COM-LEOS Society Chapter India), MINISTRY OF INFORMATION TECHNOLOGY, 6 CGO Complex, Lodhi Road, New Delhi-110003 in the name of "IEEE AES COM LEO SOCIETY CHAPTER INDIA".

Excerpts from Leadership Wire
(11 May 2001 Vol. VI, No. 9)

IEEE IDENTITY STANDARDS AVAILABLE ON THE WEB

The IEEE Identity Standards, which provide specifications for use of the IEEE Master Brand, are now available on the Web at "http://www.ieee.org/about/documentation/copyright/IDStandards.html".

Transition to the new Identity Standards has already begun. The new Master Brand should be implemented on any newly designed materials or by 31 Dec. 2001, whichever is sooner. Electronic images of the IEEE Master Brand may be requested online at "http://www.ieee.org/about/documentation/copyright/logos.htm".

For more information on the use of the IEEE Master Brand, contact Bill Hagen, IEEE Intellectual Property Rights, at MailTo: "w.hagen@ieee.org" or +1 732 562 3966.

2002 IEEE AWARD NOMINATION DEADLINE EXTENDED

The nomination deadline for the 2002 IEEE Award in International Communication has been extended until 1 July 2001. To obtain nominations for this or other IEEE awards, visit the IEEE Awards Web Page at "http://www.ieee.org/about/awards".

MARCH MEMBERSHIP STATISTICS

IEEE membership grew in March to 350,353, a 3.2 percent increase from last year. Student membership is at a record high of 64,614, or 5.9 percent higher than in 2000. The complete report is at

"http://www.ieee.org/organizations/rab/md/apr01prog.html".

(25 May 2001 Vol. VI, No. 10)

IEEE-SA, INDUSTRY PROVIDE OPEN ACCESS TO 802 STANDARD

The IEEE Standards Association (IEEE-SA) has launched the "Get IEEE 802TM" pilot program, which grants public access to electronic versions of IEEE Local and Metropolitan Area Network (802) standards. The program marks the first time the IEEE-SA has joined with industry to make a series of standards available at no charge. New IEEE 802® standards will be added to the program, also in PDF format, six months after publication. To view and download the files, visit
"http://standards.ieee.org/getieee802/".

PUBLICATION SITES REDIRECT TO IEEE XPLORE

On 31 May, the following sites will permanently redirect to IEEE Xplore at "http://www.ieee.org/ieeexplore":

Transaction/Journals/Letters Preview, "http://www.ieee.org/organizations/pubs/pub_preview/pub_prev.html".
OpeRA, "http://www.opera.ieee.org/".
Bibliographies Online,

"http://www.biblio.ieee.org/".

Region, Section or Society Web sites should update these links to IEEE Xplore. For more information, contact Charmain T. Williams, IEEE Publishing Business Development, telephone +1 732 981 3432; "MailTo:c.t.williams@ieee.org".

NEW SENIOR MEMBERS LIST ONLINE

A complete listing of the newest IEEE Senior Members can be found at "http://www.ieee.org/organizations/rab/md/may01smupdt.html".
Send any questions on the status of an elevation to
"MailTo:senior member@ieee.org" or visit "http://www.ieee.org/organizations/rab/md/AA_meeting-sched.html".

Excerpts from SCOOP
(May 2001)

JUST THE FACTS?

Are you interested in IEEE facts and figures? Do you need IEEE membership statistics for your volunteer work? If so, then you'll be interested to know the 1999 and 2000 versions of the "Annual Report of the Secretary" and "The Annual Statistics of the IEEE" are now available on the Web. The IEEE Annual Report of the Secretary contains year-end membership information. The Annual Statistics of the IEEE contains year-end membership statistics as well as information for all organizational units within the IEEE.

IEEE members with a Web account can view the Annual Statistics at http://www.ieee.org/organizations/corporate/secrpt/. For additional information, contact Cindy Poko, Corporate Activities, at mailto:c.poko@ieee.org. To establish an IEEE Web account, go to http://www.ieee.org/web/accounts/.

OFFICER CONTACT INFORMATION

The IEEE Geographic Roster, providing contact information for Region, Section, Council, Chapter, and Student Branch volunteer leadership, is available on the web for IEEE volunteers. The roster can be accessed at http://www.ieee.org/roster.

Volunteers can access the data using their IEEE web account if:
1) their name appears in the roster, or
2) they are a member of the IEEE Executive Committee, the IEEE Regional Activities Board or its committees, or
3) a member of the IEEE Technical Activities Board or an IEEE Society/Chapter Coordinator.

For more information, please contact mailto:georoster@ieee.org.

CALLING ALL COMSOC CHAPTER CHAIRS!!

Attend, Participate, and Network The first ComSoc Global Chapter Chairs Congress, GCCC 2001, is just 9 months away. Mark your calendars for Sunday, 24 November - Wednesday, 28 November 2001. The Congress, chaired and co-chaired by Ron Horn and Lin-Shan Lee, will be held in San Antonio, Texas, USA, in conjunction with GLOBECOM 2001.

GCCC 2001 will include sessions covering topics affecting all Regions (i.e. funding, chapter support, lecture tours, etc). Don't miss your chance to participate in an incredible learning forum and networking environment! Watch for further announcements here and in the IEEE Communications Magazine's Global Communications Newsletter.

If you have any questions, contact your ComSoc Regional Director or Kathy Worthman at mailto:k.worthman@comsoc.org.

THE DISTINGUISHED LECTURER PROGRAM GOES ELECTRONIC

The Electronic Distinguished Lecturer Program is now available on the web

and from a CD-ROM lending library. This pilot program was designed to help Chapters include more technical content in meetings at minimal expense. Each lecture is recorded in Spanish or English and consists of PowerPoint Slides and a 45 minute spoken lecture. The lectures will be on-line until June 2001 at http://www.ieee.org/organizations/tab/dlmain.html.

The three lectures currently available are:
* "Power Control for Wireless Data" David Goodman - Communications Society
* "Restructuring and Its Impact on the Cost and Reliability of Electrical Power Systems" John A. Casazza - Power Engineering Society
* "Project Management: High-Impact Techniques for Any Effort" Cinda Voegtli - Engineering Management Society.

Requests are being taken by the CD-ROM Lending library for cases where viewing the on-line lecture is not feasible. A CD-ROM of a particular lecture(s) will be sent, upon request, to any Chapter Coordinator or Chapter Chair. Send inquiries to mailto:electronic-dl@ieee.org. Please indicate Spanish or English, the lecture title, and a mailing address when submitting a request.

Do you want information on the regular Distinguished Lecturer Program? A list of the Societies sponsoring programs will be automatically returned to you when you send an email to:
mailto:info.distlec@ieee.org.

IEEE DELHI SECTION MEMBERSHIP STATISTICS AT A GLANCE
(as in end-April/May 2001)
Total : 1136/1248

Grade	Strength
Honorary Member	2/2
Fellow	3/3
Senior Member	115/116
Life Senior Member	8/8
Member	428/459
Life Member	2/2
Student	265/292
Others	313/366

Chapter	Strength
C016: Computer Society	168/183
COM019: Communications Society	144/150
PE031: Power Engineering Society – IA034: Industry Applications Society	89/92
CAS004: Circuits & Systems Society – CS023: Control Systems Society	51/51
EM014: Engineering Management Society	20/22

Student Branch	Strength
40336430: SJPMLIET, Radaur	2/2
2591901: DCE, Delhi	12/12
2518473: Engg. College, Ajmer	34/49
2510361: REC, Kurukshetra	1/2
2534861: JMI, New Delhi	28/30
2518443: PEC, Chandigarh	55/55
2503861: BITS, Pilani	12/13
2591103: MBM Engg. College, Jodhpur	13/13
2590001: IIT, New Delhi	7/8
2534811: NSIT, New Delhi	4/4

IEEE - DELHI SECTION BY-LAWS
(as amended w.e.f. May 13, 2001)

Article-I : Name and Territory

1.1 This organisation shall be known as the Delhi Section of the Institute of Electrical and Electronics Engineers Inc.
1.2 These Section By-laws as framed and promulgated hereafter are to be generally read in conjunction with different provisions

of Section Operation Guide and By-laws of IEEE, which should be suitably interpreted for application to Delhi Section.

1.3 The territory of the Delhi Section as designated by the IEEE Regional Activities Board includes the National Capital Territory of Delhi, Union Territory of Chandigarh and the States of Haryana, Himachal Pradesh, Jammu & Kashmir, Punjab and Rajasthan.

1.4 The Delhi Section shall have its principal offices in the city of Delhi from which it shall carry out its management and other administrative functions.

Article-II : Officers

2.1 The elected officers of the Section shall be Chairperson, two Vice-Chairpersons, Secretary, Joint Secretary and Treasurer.

2.2 Duties of elected officers will be as per the RAB operation manual and IEEE By-laws.

Article-III : Term of Office

3.1 The term of office of the Section Executive Committee as defined in Article-5.1 shall be one year beginning on 1st January, but in any case the outgoing Section Executive Committee will continue until their successors are duly elected and take office.

3.2 Any vacancy occurring during the year shall be filled by majority vote of the Section Executive Committee.

Article-IV : Executive Committee

4.1 Section Executive Committee shall constitute Standing Committees which will be responsible for functions listed below:

1. Membership Development
2. Awards and Fellow Nomination
3. Student and Educational Activities
4. Public Relations and Publication
5. Intersociety Relations
6. Section History
7. Finance
8. Technical & Professional Activities
9. Nomination

4.2 The Chairperson of each of the Committees, except the Finance Committee, will be appointed by the Section Executive Committee, from amongst the members of be the Executive Committee and their term will be concurrent with that of the Chairperson.

4.3 Each Standing Committee Chairperson, except Finance and Nomination Committee, may appoint his Committee Members in a manner that representation from inside and outside the Executive Committee is maintained, to ensure that Section operations have base broader than the Executive Committee.

Article-V : Management

5.1 Management of the Section shall be by the Section Executive Committee which shall consist of the elected officers, nine elected members, immediate past Chairperson, Chairpersons of all Sub-sections and Chairpersons of all Groups / Society Chapters, if located in Delhi as ex-officio Members. More Members not exceeding four may be co-opted by the Section Executive Committee.

5.2 Meeting of the Section Executive Committee will ordinarily be held monthly and will be called by the Section Chairperson or by a written request of any five Members of the Section Executive Committee.

5.3 Majority members of the Section Executive Committee shall constitute a quorum provided elected members are at least one more than the appointed members and the business shall be conducted by majority vote.

5.4 The financial year of the Section shall be one year with effect from 1st January.

Article-VI : Nomination and Election of Section Executive Committee

6.1 A nomination Committee consisting of three members other than present office bearers shall be appointed by the Section Executive Committee. Immediate past Chairperson of the Section (if available) failing which any past Chairperson shall be Committee Chairperson. The Nomination Committee shall not nominate any of its members as officer in the slate.

6.2 The nominations of the Nomination Committee will be announced to the Section

Membership and, following this, a minimum of 28 days allowed for additional nominations by petition. To be valid, the petition must be signed by 25 or more voting members.

6.3 If only one nomination is made for each office, the election will be made at the Annual Meeting. If additional nominations are made, election will be made by ballot mailed to the voting membership and the vote counted by a Committee appointed by the Section Chairperson. Members other than Students shall be the voting members.

6.4 The suggested time table for this procedure is as follows :

1st September - Appointment of Nomination Committee

1st October -Announcement of Nominations

1st November- Close Nomination by petition

15th November - Mailing of ballots

15th December - Hold Annual Meeting

Article-VII : General Body Meeting

7.1 Annual General Meeting of Section Membership is called by Section Chairperson in consultation with Executive Committee for presentation of Annual Report, Election of Office Bearers & Executive Committee Members and any other agenda formulated by Executive Committee.

7.2 In order to transact business in General Body Meeting at least 25 voting members (quorum) must be present. However, if the required quorum is not present at the scheduled starting time of the Meeting, then the General Body may be adjourned. The Meeting may be reconvened after waiting for half an hour to transact the slated business without waiting for the quorum.

7.3 Special General Body Meeting can be requisitioned by a petition signed by not less than 25 voting members submitted to the Section Chairperson, who in consultation with Executive Committee will call the Meeting within two months with proper formulation of agenda.

7.4 Notices for any General Body Meeting shall be mailed at least one month in advance and shall include date, time, venue and agenda for the meeting.

Article-VIII : Finances

8.1 All expenditure of Section funds must be approved by the Finance Committee.
8.2 The Finance Committee shall consist of the following :

- Chairperson : Section Treasurer
- Member : Immediate past Chairperson of the Section if available, otherwise one member appointed by the Section Chairperson
- Member : One member appointed by the Section Chairperson

8.3 Without prior authorisation of the Executive Committee, Section funds can only be used for normal operation of the Section.
8.4 The Treasurer jointly with either the Chairperson or Secretary or Joint Secretary shall be authorised to draw funds as approved by the Section Executive Committee.

Article-IX :Amendments

Proposals for amendment to these By-laws may originate in the Section Executive Committee or by a petition signed by 25 or more voting members, which shall become operative if adopted at General Body Meeting by majority vote.

Article-X : Sub-Section

10.1 Members of any town may through a petition signed by 20 or more members and approved by the Executive Committee form a Sub-section for the purpose of organising activities of the Section in that town.
10.2 A Sub-section will be managed by a Committee elected annually, comprising of a Chairperson, Vice-Chairperson, Secretary, Treasurer, immediate past Chairperson and not less than three Executive Committee Members.

10.3 The Chairperson of the Sub-section shall be an ex-officio Member of the Section Executive Committee and shall be

responsible to the Section Executive Committee for liaison and maintaining relations with Section Executive Committee. He / she shall report from time to time to the Section Executive Committee, regarding the activities of the Sub-section.

10.4 Sub-section Chairperson will submit to the Section Secretary by the 31st December of each year, a consolidated report of meetings held during the year and a report on Sub-section financial operations. The Sub-section shall send to the Chairperson, Vice-Chairpersons and Secretary of Section Executive Committee every circular or notification, it sends to its members.

10.5 Sub-section shall receive annual financial support depending upon its membership and its meeting programmes.

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vol 01 no 07
july 2001

From the desk of ECC

Dear *esteemed colleagues*,

You may be knowing at the Section level we have taken an initiative for the elevation of eligible Members to the Senior Member level. To start with though categorically we scanned the ones from PES-IAS Chapter, it will follow those belonging to EMS, CAS-CS, ComSoc and Computer Society Chapters. As a result of this, in this month strength in this grade has increased from 116 to 131. Those who have experience of ten years or so please feel free to send your resume through an attachment to e-mail so that we may process the same and send nomination to IEEE for due recognition of your professional standing.

Otherwise too, our Section strength is steadily growing again. Those who haven't renewed their membership, through this communication, I make a fervent appeal to them to do so in order to continue to enjoy the benefits of IEEE Membership.

Last time some of our Members felt difficulty in downloading the Section electronic newsletter as the same was of about half an MB size. That was containing newly approved by-laws of the section and hence bulky. Anyway now as well as in future for the benefit of all I am trying to keep it down-sized to the extent possible and feasible. If you want I may send it zipped and / or only in the html form to reduce the size.

With regards,
Sincerely yours
Dr. S.Mukhopadhyay

New Delhi
July 09, 2001
(e-mail: ieeedelhi@ieee.org
URL: http://www.ewh.ieee.org/r10/delhi)

FOR ONCE I FEEL PROUD NOT SEEING INDIA ON TOP OF THE TABLE !

And it's not even in top 25 ! (I wish this were not an Asiad or Olympics medals tally !) – yes we are talking Hard Core Business, the talk is about Software Piracy.
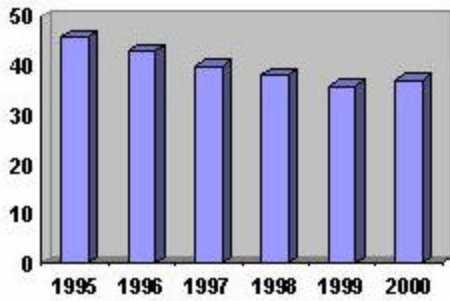
Please have a look at the following table and graphical representations:

Top 25 Countries by Piracy Rate

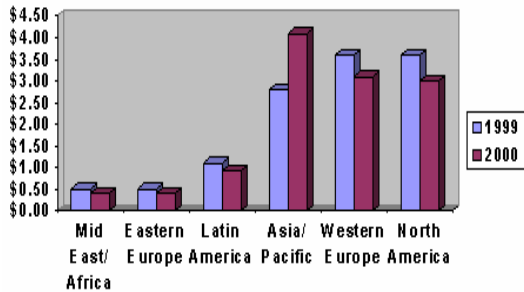| S. No.	Country	Piracy Rate in 1999	Piracy Rate in 2000
1.	Vietnam	98	97
2.	China	91	94
3.	Indonesia	85	89
4.	Ukraine/Other CIS	90	89
5.	Russia	89	88
6.	Lebanon	88	83
7.	Pakistan	83	83
8.	Bolivia	85	81
9.	Qatar	80	81
10.	Bahrain	82	80
11.	Kuwait	81	80
12.	Thailand	81	79
13.	El Salvador	83	79
14.	Nicaragua	80	78
15.	Oman	88	78
16.	Bulgaria	80	78
17.	Romania	81	77
18.	Guatemala	80	77
19.	Paraguay	83	76
20.	Jordan	75	71
21.	Honduras	75	68
22.	Costa Rica	71	68
23.	Dominican Republic	72	68
24.	Kenya	67	67
25.	Nigeria	68	67

(Microsoft may reduce its expenditure in India on campaign against pirated software)

The results are based on sixth annual study conducted by International Planning and Research (IPR) Corporation, for the BSA (Business Software Alliance).
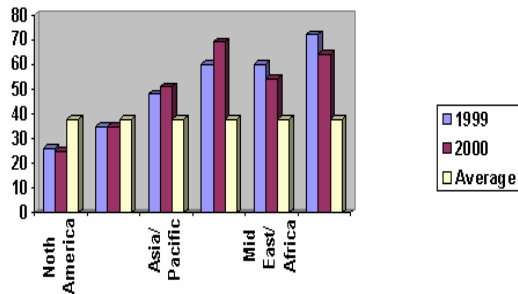
World Piracy Rate Year-wise

It is noted that the piracy rate that had been reducing ever since 1995, increased once again in year 2000.

Dollar Losses by Region (Billion)

The total losses due to Software Piracy world over were estimated to be $11.75 billion.

Piracy Rate by Region

North America

Highest: Canada (38%)
Lowest: United States (24% - lowest in the world)

Western Europe

Highest: Greece (68%)
Lowest: Denmark, United Kingdom (26%)

Asia/ Pacific

Highest: Vietnam (97%)
Lowest: New Zealand (28%)

(India saw an increase to 63% from 61% during the previous year)

Latin America

Highest: Bolivia (81%)
Lowest: Chile (49%)

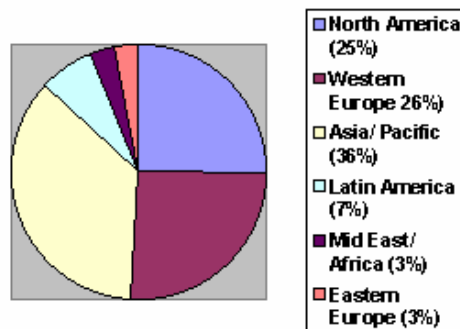## Mid East/ Africa

Highest: Bahrain, Kuwait, Qatar (80%)
Lowest: Israel (41%)

Eastern Europe

Highest: Ukraine/ Other CIS countries (89%)
Lowest: Czech Republic (43%)

Finally, the last figure shows region wise break-up of losses:

Dollar Losses by Region

Daman Dev Sood
Tata Consultancy Services

35

Schedule of Technical & Professional Activities

July 06, 2001: 6-15 P.M.: Talk on 'Possibility of Hydro-Power Development in the Private Sector' by Mr. Rajendra Singh, ex-CEA, New Delhi in the Lecture Hall (basement), India International Center (Annexe)

Excerpts from Leadership Wire
(8 June 2001 Vol. VI, No. 11)

IEEE COMPUTER SOCIETY OFFERS FREE ACCESS TO ONLINE BENEFITS

The IEEE Computer Society is offering two months of free access to online benefits and services to anyone who joins the Society during its 2001 member dues special. For more information visit "http://computer.org/join/".

EDUCATIONAL ACTIVITIES BOARD CONTEST NOW OPEN TO ALL SOCIETIES

The IEEE Educational Activities Board has opened up to all IEEE Societies its contest to develop an overview tutorial for Web delivery. Prizes of US$500, US$350, and US$200 will be awarded for the top three entries. The submission deadline is 15 Sept. For more information, visit "www.ieee.org/organizations/eab/webed2/appcontest.htm".

(29 June 2001 Vol. VI, No. 12)

IEEE JOB WEB SITE LAUNCHED

The IEEE Job Site was launched in June with extensive promotion. The free service for members allows users to submit a profile on their background and specify the type of job they are seeking. The service then searches the database for matching positions and notifies the job seeker by e-mail when a match is found. For more information, visit "http://www.ieee.org/jobs."

IEEE WEB APPLICATIONS UNAVAILABLE DURING DATABASE UPGRADE

On Saturday, 7 July, at 8 a.m. EDT, the following Web applications will be unavailable for approximately 14 hours while a database upgrade is completed:

*Member renewal
*Change of contact information
*New member
*New student
*Add services
*Conference management
*IEEE Online Catalog & Store
*IEEE Engineering in Medicine and Biology Society conference payments

This work is part of an ongoing IEEE Information Technology (IT) initiative. Over the next few months, IT staff will upgrade equipment for Web database and Web application servers with the goal of minimizing unscheduled service disruptions caused by equipment failure.

Excerpts from SCOOP
(June 2001)

LAST CHANCE FOR 2001 MEMBERSHIP RENEWAL

Just a reminder that those IEEE members whose 2001 dues have not yet been paid are no longer active members. If payment is not received by 1 August, receipt of the IEEE election ballot will be jeopardized and, in addition, continuity of membership can be lost. Members in Regions 8, 9 and 10 who are submitting payment through Section Custody Accounts should pay particular attention to the timing of late payments because of the built-in delays due to the number of steps in the process.

Announcements can be made at meetings and in Section newsletters, or your SAMIEEE database can be used to identify those individuals in arrears so that a more personal approach can be employed. Membership renewals can be submitted directly from the web at www.ieee.org/membership/renewal/.

Need some more good reasons for renewing? On that same web site, click the link titled "The Benefits of IEEE Membership" and you will find lots of them!

OUT WITH THE OLD, IN WITH THE NEW

Effective 31 May 2001, the following IEEE Web sites have been permanently shut down:

*Transaction/Journals/Letters Preview (http://www.ieee.org/organizations/pubs/pub _preview/pub_prev.html)

*OPeRA (http://www.opera.ieee.org/)

*Bibliographies Online (http://www.biblio.ieee.org/)

The good news is that all users will be redirected to the IEEE Xplore(TM) site (http://www.ieee.org/ieeexplore). IEEE Xplore provides members with an interface for accessing their personal IEEE subscriptions and abstract / citation records of the complete online collection. Members will need an IEEE Web account to access content in IEEE Xplore; OPeRA account numbers are no longer in effect. IEEE members can register for an IEEE Web Account at http://www.ieee.org/web/accounts.

SENIOR MEMBER NEWS

A complete listing of the newest IEEE Senior Members, arranged by Region and Section, can be found at http://www.ieee.org/organizations/rab/md/ may01smupdt.html. These members were elevated at the Admission & Advancement (A&A) Panel Meeting held in Bellevue, Washington, USA on 12 May 2001. For listings from previous elevations, go to http://www.ieee.org/organizations/rab/md/s mupdates.html.

If you have any questions regarding the status of a Senior Member

elevation, please send a message to senior-member@ieee.org. The next scheduled A&A Panel Meetings to review Senior Member applications will be held on 23 June in New Brunswick, NJ and on 11 August in Montreal, Canada. For a complete list of the 2001 schedule, go to http://www.ieee.org/organizations/rab/md/A A_meeting-sched.html.

IEEE DELHI SECTION MEMBERSHIP STATISTICS AT A GLANCE
(as in end-June 2001)
Total : 1296

Grade	Strength
Honorary Member	2
Fellow	3
Senior Member	131
Life Senior Member	8
Member	460
Life Member	2
Student	325
Others	365

Chapter	Strength
C016: Computer Society	182
COM019: Communications Society	150
PE031: Power Engineering Society – IA034: Industry Applications Society	96
CAS004: Circuits & Systems Society – CS023: Control Systems Society	54
EM014: Engineering Management Society	23

Student Branch	Strength
40336430: SJPMLIET, Radaur	2
2591901: DCE, Delhi	12
2518473: Engg. College, Ajmer	49
2510361: REC, Kurukshetra	4
2534861: JMI, New Delhi	30
2518443: PEC, Chandigarh	53
2503861: BITS, Pilani	13
2591103: MBM Engg. College, Jodhpur	13
2590001: IIT, New Delhi	9
2534811: NSIT, New Delhi	25

ieeedelhinews
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From the desk of ECC

Dear *esteemed colleagues*,

Again I am coming to you with the Section e-newsletter. Section membership is steadily increasing; hope it will catch the figure of 2000 or above in the next few months to come. Interestingly enough for the first time strength of Communication Society Chapter has surpassed that of Computer Society Chapter. However we are going weak month by month in terms of our younger ones, I mean the Student strength. Some of the Student Branches have fallen below the level of 20 and continue to have it so. I fear they may be de-recognized. Student Branch Counselors are requested to do something to stop the downfall.

For the next two months I will be out of the country. Of course with your co-operation I will try to publish this e-newsletter. But I am afraid I may not be in a position to give the membership statistics. For your contribution too, I request you to keep it less than 250 KB (if necessary, attempt to zip) so that I do not face any difficulty in downloading the matter through VSNL server.

Bye then.

With regards,
Sincerely yours
Dr. S.Mukhopadhyay
New Delhi
August 05, 2001
(e-mail: ieeedelhi@ieee.org
URL: http://www.ewh.ieee.org/r10/delhi)

INDIAN BANKING AND COMPUTERISATION

Let's have a look at some statistics to begin with:

#	Item	Value
1.	Total no. of branches in India	45837
2.	No. of branches eligible for partial/ total computerisation	10438
3.	No. of branches partially computerised	8804
4.	No. of branches identified for Total Bank Computerisation	8663
5.	No. of fully computerised branches	6103
6.	Total ATMs installed	377
7.	On-line terminals at Corporate Customer sites installed	2112
8.	Credit Card issued	838649
9.	Smart Card issued	249
10.	Debit Cards issued	111580 ATM cards
11.	Branches covered under RBI's EFT scheme	3396
12.	Corporate Customers availing of ECS-credit clearing	86
13.	Corporate Customers under (utility services) under ECS-debit/ RAPID	33
14.	Nodes on RBINET in banks	121
15.	Branches connected to other networks	1263
16.	Nodes on VSAT network for the industry	1535
17.	Currency chest & other branches linked to NICNET	796
18.	E-mail connections	4500

Pertaining to Public Sector banks, as of March 2001, compiled by RBI

The following four bodies are involved in bringing the Indian Banking to the point where it is today:

CVC (Central Vigilance Commission)
RBI (Reserve Bank of India)
IBA (Indian Banks Association) and
MoH (Ministry of Home Affairs)

The CVC issued a strict notification in 1998 to all public sector banks to computerise 70 % of their functions by January 1, 2001 (i.e. 70 % of their business must be done through computers) – today all private sector banks are almost 90 % computerised while 23 out of 27 public sector banks have completed 70 % computerisation.

The IBA started a shared payment network in 1997 in Mumbai and is now expanding its network to other Indian cities, where all the ATMs of various banks will be interconnected and a customer can accomplish his/ her banking tasks from any ATM irrespective of the bank he/ she is from.

EFT (Electronic Fund Transfer) and ECS (Electronic Clearing Scheme) are well established.

The RBI itself has been taking IT very seriously – It is about to invite bids for its RTGS (Real Time Gross Settlement) Project, while many projects such as SSS (Security Settlement System), NDS (Negotiated Dealing System) and SMS (Structured Messaging System) have recently been awarded to **_TCS_** and CFMS (Centralised Fund Management System) to E-Funds. All these projects will be deployed and integrated with RBI's INFINET platform. INFINET stands for the Indian Financial Network and is a terrestrial line-based network utilising VSAT and consists of a central earth stations (HUB) at Hydrabad and 625 remote VSAT locations distributed over 200 cities and towns all over India. By the end of 2003, INFINET will have 5000 VSATs.

The total transactions handled by RBI's clearing house in Mumbai alone in March

2001 was Rs. 6.6 trillion - this gives a fair idea of what should the hardware/ software/ network configuration be for the whole organisation.

The IBA has undertaken a major project – SPNS (Shared Payment Network System) and is named as SWADHAN (my money). SWADHAN SPNS is a large network, connecting all member banks' ATMs so that any customer (having SWADHAN ATM card) of particular member bank can avail of an ATM facility from any other bank.

(The note excludes all Multi-National banks)

Daman Dev Sood
Tata Consultancy Services

Schedule of Technical & Professional Activities
IEEE Delhi Section
Joint Chapter on Circuits, Systems and Control
&
Electrical Engineering Department, IIT Delhi
Organize Lectures under the aegis of
The IEEE Circuits and Systems Society

Distinguished Lecture Program

Prof. Robert W. Newcomb, Professor, Department of Electrical and Computer Engineering, University of Maryland, USA will be Visiting India under the Distinguished Lecture Program of IEEE Circuits and Systems Society from 4th August 2001 to 11th August 2001. He will be giving following seminars in the Committee Room of Electrical Engineering Department, IIT Delhi as per following schedule during his stay in Delhi:

**6th August 2001   6 P.M
Semistate Theory and Design of
Analog VLSI Circuits**

Semistate theory extends state variable theory to circuits and systems not covered by state variable theory, especially resistive and hysteresis ones. Here a realization theory of circuits is presented and its application given to the design of general

analog VLSI circuits; special emphasis is given to using CMOS transistors in the realizations.

7th August 2001   12 Hrs.
Microsystems Laboratory Research on New Classes of Computers

Over the last forty years work in the Microsystems Laboratory has been going on and off to develop hardware for new classes of computers. The classes can be broken into four basic types: number based, group theory & group-ring based, wave based and biologically based, though others have been touched upon. This talk introduces the mathematical framework for these computers, discussing their nature, the mathematics behind, and ideas toward physical and VLSI realizations.

Excerpts from Leadership Wire
(13 July 2001 Vol. VI, No. 13)

NEW ONLINE ACCESS TO TAB ROSTER

The IEEE Organization Roster, Part II -- also known as the TAB Roster, is now available online at
"http://www.ieee.org/organizations/tab/roster/".

Access to the roster is secure and only available to members of the Technical Activities Board (TAB), TAB Committees, Society/Council Officers and AdComs, members of the Regional Activities Board included in the Geographical Roster (Part III of the IEEE Organization Rosters), and members of the IEEE Board of Directors.

An IEEE Web Account username and password is required to view this document.

The online roster data will be updated every two weeks. This project is part of the multi-year Data Access for Volunteers initiative that was approved by the IEEE Board of Directors.

For more information or assistance with access, contact Rosemary Tennis, IEEE Technical Activities,
MailTo:"tabroster@ieee.org" or call +1 732 562 6524.

NEWEST SENIOR MEMBER ELEVATIONS POSTED ONLINE

The complete listing of the newest IEEE Senior Members, arranged by Region and Section, can be found at
"http://www.ieee.org/organizations/rab/md/jun01smupdt.html".
For listings from previous elevations, go to
"http://www.ieee.org/organizations/rab/md/smupdates.html".

(27 July 2001 Vol. VI, No. 14)

WEB PAGE LOAD TIMES DECREASE

The IEEE is now using content delivery technology to improve response time of its Web pages. Content such as graphics and PDF files is being moved to 9,700 servers maintained by Akami in 56 countries. When users access a page, they will receive this content from the server closest to them so the page loads more quickly.

The new process already has been implemented for the IEEE home page, Standards 802 offerings, the Travel Online home page and the search page and will eventually be extended to the entire IEEE main site.

For information, contact Casey Della Salla, IEEE Information Technology, at MailTo: "c.dellasalla@ieee.org".

SIX NEW JOURNALS TO BE PUBLISHED IN 2002

For 2002, the IEEE will publish these new journals.
"IEEE Antennas and Wireless Propagation Letters"
"IEEE Transactions on Mobile Computing"
"IEEE Transactions on Molecular, Cellular and Tissue Engineering"

"IEEE Transactions on Nanotechnology" (online only)
"IEEE Pervasive Computing Magazine"
"IEEE Transactions on Wireless Communications"

IEEE-USA BOD RELEASES STATEMENT ON 'ENGINEER' TITLE

The IEEE-USA Board of Directors has released a new position statement on "Use of the Title 'Engineer.'" Read the statement at "

http://www.ieeeusa.org/forum/POSITIONS/titleengineer.html".

MEMBERSHIP PROJECT GRANTS AVAILABLE

US$50,000 in grant money is available from the IEEE Membership Development Committee for one-time project grants for creative, new membership development programs.

Projects must be initiated and completed in 2001. Each individual grant cannot exceed US$5,000.

The grants are only available to Regions, Sections, Student Branches and Societies. Projects must focus on efforts to either recruit new IEEE members or enhance retention of current members.

Submittal forms may be obtained from Mila Thelen IEEE Membership Development, at MailTo:"m.thelen@ieee.org".

Excerpts from SCOOP
(July 2001)
CALL FOR SECTIONS CONGRESS 2002 SPEAKERS

The Sections Congress 2002 Program Committee is recruiting qualified speakers for tutorials and workshops. SC 2002 will take place 18-21 October 2002 at the JW Marriott Hotel in Washington, DC. The committee is particularly interested in presenters with experience in the identified subject areas, particularly at the grassroots level of the IEEE. Self-nominations will be accepted. Please note that sponsors or funding support should also be identified at the time the speaker is nominated. If no funding support is immediately identifiable for a particular speaker, the nomination may still be submitted, as sponsorship may be identified at a later time.

The online response form includes a drop down menu with a list of the subjects for which speakers are needed, and a space for funding support to be identified. Please complete the form by 15 September 2001. It can be found at:

http://www.ieee.org/organizations/rab/sc/2002/program/suggestions.html

For additional information, contact Cathy Downer, c.downer@ieee.org or +1 732 562 5506.

SENIOR MEMBER NOMINATIONS MADE EASIER

When a Section or Society nominates a Senior Members, it is recognizes worthy members, enhances the image of IEEE in the profession, gives recognition to employers for having highly qualified professional staff, improves membership retention, and encourages IEEE volunteerism. However, some Sections and Societies wishing to nominate Senior Members face a real challenge: they lack the personal knowledge of an individual's educational and professional background that is necessary to complete the application form. On the other hand, SM applicants regularly contact IEEE requesting help in identifying other Senior Members who can serve as their references.

To meet these two needs, we have created a simple way for Sections and Societies to better work with their Senior Member candidates. An electronic SM nomination letter is now available for use by Sections and Societies that can be sent to qualified Members with the necessary nomination information and forms to be completed by the nominee. The letter

also contains an offer to assist them in identifying the necessary Senior Member references.

The letter asks the nominee to complete the Senior Member application form (available in three formats) and to forward reference forms to Senior Members they know. If the nominee needs assistance in identifying Senior Members to serve as references, contact information is also included in the letter for follow up by the nominee with the local MD and/or SAMIeee officer. You can request the Senior Member nomination letter and forms in electronic format now by sending an email to senior-member@ieee.org. This is just one more way for Sections and Societies to better assure that every qualified member holds Senior Member grade.

IEEE GOLD AFFINITY GROUPS TURN 30

The growth of Graduates Of the Last Decade (GOLD) Affinity groups has been phenomenal. The first GOLD group was established in 1999 and now, with the recent formation of five new GOLD affinity groups, the total of GOLD groups has reached 30 worldwide.

IEEE GOLD groups encourage young professionals and recent graduates to remain active as IEEE members by providing GOLD members the opportunity to initiate activities in their local IEEE Sections, Chapters and Societies that meet their special interests.

Ten percent of all IEEE Sections now have GOLD Affinity groups. While this is certainly good progress, what about the other 90%? What are you waiting for? GOLD groups help retain recently graduated Student members, encourage more involvement in IEEE activities, inspire volunteerism and help develop future IEEE leaders. Tell your recently graduated members to keep in touch with their peers and to get involved in the local Section by helping them form a GOLD Affinity Group. For more information, send a message to gold@ieee.org.

IEEE DELHI SECTION MEMBERSHIP STATISTICS AT A GLANCE
(as in end-July 2001)
Total : 1363

Grade	Strength
Honorary Member	2
Fellow	2
Senior Member	133
Life Senior Member	8
Member	482
Life Member	2
Student	312
Others	422

Chapter	Strength
C016: Computer Society	186
COM019: Communications Society	228
PE031: Power Engineering Society – IA034: Industry Applications Society	97
CAS004: Circuits & Systems Society – CS023: Control Systems Society	55
EM014: Engineering Management Society	23

Student Branch	Strength
40336430: SJPMLIET, Radaur	2
2591901: DCE, Delhi	8
2518473: Engg. College, Ajmer	49
2510361: REC, Kurukshetra	3
2534861: JMI, New Delhi	30
2518443: PEC, Chandigarh	49
2503861: BITS, Pilani	9
2591103: MBM Engg. College, Jodhpur	12
2590001: IIT, New Delhi	7
2534811: NSIT, New Delhi	24

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september 2001

From the desk of ECC

Dear *esteemed colleagues*,

Yes, as promised I am bringing out our Section e-newsletter without any discontinuity from abroad. Unfortunately due to paucity of time, I am however not in a position to give our current strength in terms of membership. Similarly I am not aware of any Technical & Professional Activities that are being organized in this month; hence no news on that account. But I am including a report of IEEE President's visit to Jamia Millia Islamia and an article from Mr. Daman Dev Sood. I will be back to India by mid-October. So I hope by that time I may be in a position to give you other facts and figures that are of interest to you. Please bear with me till then. Before concluding my short communication, I request you, in particular those who have not seen so far, the announcement on IEEE India Annual Convention & Exhibition ACE 2001 in our Section web site at http://www.ewh.ieee.org/r10/delhi/ACE2001.pdf.

With regards,
Sincerely yours
Dr. S.Mukhopadhyay
Chicago, IL, USA
September 06, 2001
(e-mail: ieeedelhi@ieee.org
URL: http://www.ewh.ieee.org/r10/delhi)

The Visit of the IEEE President : A report

There was a lively air of anticipation and excitement at the Auditorium of the Faculty of Engineering and Technology at 9:25 am on the 17th of August. Delayed by one day but still bursting with energy and enthusiasm the volunteers of the IEEE Student branch set about their assigned tasks. Each and every detail was being looked into, the lights, the LCD, the name placards for the panelists - the ultimate objective in each mind was the successful and smooth execution of the event that was to follow, to welcome the IEEE President Mr. Joel B. Snyder.

The event was begun on a Holy note by the recitation of verses from the Holy Quran. This was followed by the Welcome Address by Dr. Mini S. Thomas, Branch Councilor of the IEEE student branch at JMI. She remarked that this was truly a memorable day for the IEEE Student Branch as it was a long cherished dream to welcome the President in the faculty. She brought to the notice of the gathering, the role of the IEEE student volunteers in the organization of the event and highlighted their crisis-management skills which were put to the test when the event was postponed by one day. She proceeded to welcome the distinguished guests and the President. Addressing the student guests from other engineering colleges she said that "...this marks a new beginning in the partnership among the student branches in Delhi ... and I hope it develops into a strong bond".

Dr. R. Balasubramaniun then addressed the gathering. He emphasized the importance of technical festivals being organized in Delhi by various engineering colleges and expressed his delight that the President's visit happened in simultaneity with the inauguration of the technical festival - "Encomium", being organized by the IEEE Student branch at the Faculty. He wished all the success to the organizing committee of Encomium.

After a short introduction by Professor Moinuddin, the President – Mr. Joel B. Snyder came to the podium himself. He commenced his speech by a loud and clear "Good Morning" to which the audience was quick to react. Setting the tone in this manner he began his speech. It was broadly divided into three sections, "What is the IEEE ?", "Who are our members?" and "What IEEE can do for you?" This was followed by short section on "What you can do?".

His speech was choc-a-bloc with information and all kinds of amazing facts and figures. The IEEE has a total of 366000 members in over 150 countries with 50,000 student members, 297 sections, 1089 student branches, 36 technical societies, 10 regions all over the world establishing it as the largest technical organization spanning the entire globe. The IEEE also organizes 350 international conferences with over 100,000 attendees. The IEEE has 105 publications and it publishes 30% of the technical literature being published in the world today. The IEEE has a vast database of documents on the internet which is available to all the members on "IEEE Explore".

As if this was not enough to sweep us off our feet he continued with some membership statistics. The IEEE has doubled its membership during the last 25 years. 67% of its members have graduate degrees or better, 29% have PhDs which is an indication of the high quality of the member pool. However, he expressed his concern for the fact that 93% of the members were male and only 6% were female. The next section was on the "IEEE Vision", which is to advance global prosperity by fostering technological innovation. Enable careers by organizing conference and seminars and providing first hand information to its members. It focuses on personal and human aspects of engineering as opposed to only technical ones. It endeavors to act as the prime platform for sharing of information and ideas the world over. The President added a personal touch to the speech by observing that the IEEE was a great way to make

friends everywhere. He said "...if I see any of you again, I will recognize you ". He ended by saying that, "It is your IEEE, advancing your career"

After the delightful address by the President Ms. Ruchi, a member of the IEEE Student branch spoke about the upcoming festival Encomium. As Dr. Snyder listened intently she gave a brief introduction of each event constituting the festival. The Encomium brochure was then released by the President.

This was followed by the felicitation by Dr. M.R Khan, Dean of the Faculty. What followed was the most humorous and entertaining speech of the morning, by Shri H.L. Bajaj. He livened up the gathering with his jokes and "*shairi*". On a more serious note he said that "innovation" is the best investment and fetches unparalleled returns. He also said that we should strive for a new world which is border less and importance should only be given to those with ideas in their minds.

The Vice Chancellor's address was up next. The VC was very impressed with Dr. Snyder's presentation and addressing the students he said that, "...we have brought the horse to the water, and it is now time for the horse to drink". Then he presented a memento to the President.

The vote of thanks given by Ms. Ritika Bhandari concluded what had been a truly memorable morning. The meeting was attended by around 350 people, including IEEE Delhi section functionaries, student members from Delhi college of Engineering(5), Netaji Subhash Institute of Technology(50) and Mahila Institute of Technology (7)and faculty members & students of Jamia Millia Islamia.

This was followed by an interactive session of the IEEE members with the president. Mr. P.K. Srivastava, IEEE India council chairman addressed the gathering, and seeing the enthusiasm of the Jamia volunteers, requested Jamia to host the 2003 student congress to be held in Delhi. Dr. Mini S.

Thomas presented a summary of the 11 student branches under Delhi sections, and put forth some suggestions. The IEEE President responded favourably to most of the suggestions. This was followed by the students inquiring and clarifying their problems related to IEEE, with the president. The session ended with a note from Prof. Balasubramaniun, and vote of thanks by Dr. Mini S. Thomas.

Dr. Mini S. Thomas
Jamia Millia Islamia

COLOCATION CENTERS

COLOCATION CENTER, CO-LOTEL, TELECOMS HOTEL or simply WEB FARMS, CYBERCENTERS, DATACENTERS

Ever heard of these terms ?

Colocation Centre is the term becoming the catch phrase these days.

Let's have a look at the features that a company looks at while deciding about hiring a Colocation Centre:

- Company Information
- Facilities Infrastructure
- Power Systems
- Building Security
- Environment Controls
- Fire Suppression
- Backbone Connection
- Hardware Fault Tolerance

And what's the market size ?

$ 3 billion in the beginning of year 2001
$ 5.5 billion by the year end

(figures for European market only)

Do you know who are the major players ?

Redbus Interhouse Plc., IXEurope, CityReach International, Globix, Exodus, Level3, GlobalCenter

So what do the Colocation Centres offer ?

- Neutral Internet Colocation Facilities (NICF)
- World Class Infrastructure
- Round-The-Clock Security and Protection
- Power and Environmental Controls
- Wide Range of Housing Facilities (19" racks to dedicated suits and vaults)
- 24X7 on-site availability of the engineers
- Wide Range of Telcos and ISPs

SLA (Service Level Agreements) ?

The most stringent across the Globe. **Why**? Because AOL will lose $125,000 for every hour its sites are down. Online auction company eBay will lose $227,000 in a comparable period. Online credit card authentication organisations will lose $ 2.6 million in the same period.

But what are Colocation Centres ?

Well, simply, a Colocation Centre is a secure building that houses servers and has high-speed telecoms connections to the internet backbone.

Finally, have a look at this example:

The security is of the highest level, more like the James Bond Movies. A simple keypad or swipe card is just not sufficient. There are air-lock reception and mantrap doors, photo-identification scanners and biometrics scanners. And, if someone was still not impressed, some centres have thumb scanners that only work if the thumb is warm, IN CASE SOMEONE CUT OFF AN EMPLOYEE'S THUMB AND TRIES TO SCAN THAT.

Daman Dev Sood
Tata Consultancy Services

NEW UPGRADE TO IEEE XPLORE

The first major upgrade for IEEE Xplore has been implemented and includes these new features:

- Hyperlinks within the reference section of select abstracts (published since 1996) to the corresponding source, if it is in the IEEE Xplore database
- A new Welcome Page with an article counter, contacts and links to product information, news and "IEEE Spectrum" Online
- A PDF file size indicator
- A "Getting Started" guide
- Postscript PDF files that replace some older files created from scanned hardcopy
- Member access (determined by subscription) to IEEE Computer Society periodicals content

SOCIETY ESTABLISHES OFFICE AT OPERATIONS CENTER

The IEEE Broadcast Technology Society has established an administrative office at the Operations Center. IEEE Technical Activities‰ employees April Nakamura and Laura Van Savage will staff the office on a part-time basis. Van Savage will handle the peer-review process for "IEEE Transactions on Broadcasting" while Nakamura will be responsible for the Society‰s administrative business needs. For more information, contact Nakamura at MailTo: "a.nakamura@ieee.org" and Van Savage at MailTo: "l.vansavage@ieee.org".

IEEE WEB SITE UNDERGOES CLEANING

More than 30,000 outdated and unnecessary files have been deleted from the main IEEE Web site since April. For more information, contact Mitch Sharoff, IT, at Mailto: "m.sharoff@ieee.org".

MAGAZINE TO CHANGE NAME

"IEEE Personal Communications Magazine" is changing its name in 2002 to "IEEE Wireless Communications Magazine." The title change will more accurately reflect the scope of the topics covered by the magazine, with an even greater focus on wireless communications and networking. For more information, visit http://www.comsoc.org/pci/.

IEEE CONFERENCE SEARCH SITE LOGS OVER 30,000 MONTHLY VISITS

The IEEE Conference Search Web site at "http://www.ieee.org/conferencesearch/" is receiving more than 30,000 visits each month from individuals looking for information on IEEE meetings. All conferences that have submitted a Conference Information Schedule are included in the search and in the linked IEEE Conference Database. For more information, contact Mary Ann De Wald, IEEE Technical Activities, at MailTo:"m.dewald@ieee.org".

DEPARTMENT NAME CHANGE

Earlier this year, IEEE Strategic Planning and Institutional Research combined with IEEE Corporate Communications into one department reporting to Matt Loeb, staff director. To better reflect this new structure and the complementary functions of the two groups, the department has been renamed IEEE Corporate Strategy and Communications. Staff positions and reporting structure remain the same.

(24 August 2001 Vol. VI, No. 16)

2001 ELECTION BALLOTS ON THE WAY

The 2001 IEEE Annual Election is underway. Members will begin receiving their ballots during the first week in Sept. The balloting period is from 1 Sept. until 12:00 noon on 1 Nov. Only signed ballots received in sealed

envelopes will be valid and counted in the election.

FREE ONLINE HOW-TO GUIDE FOR COURSE DESIGN AVAILABLE

IEEE Educational Activities (EA) has posted an online tool for course designers, the "Reference Guide for Instructional Design and Development," to the IEEE Web site. This how-to guide was developed by EA in partnership with Telcordia Technologies to help individuals design courses and tutorials efficiently and effectively. This guide will help designers add education value to their tutorials, which can help qualify them for Continuing Education Unit credits. Access this guide is at
www.ieee.org/organizations/eab/tutorials/refguide/mms01.htm.

MICROSOFT JOINS IEEE STANDARDS ASSOCIATION

Intel Corp. and Microsoft Company recently joined the IEEE Standards Association, bringing the total number of Corporate Members to 40. Carl Stork, general manager of Windows Hardware Strategy and Business Development, is the IEEE-SA Corporate Representative for Microsoft. An interview with Stork, at
http://www.microsoft.com/PressPass/features/2000/04-25winhecstork.asp,
explains how Microsoft wants to use standards to work with other software and hardware developers. For more information, contact Ronni Rubenstein, at
r.rubenstein@ieee.org or visit
http://standards.ieee.org/sa-mem/corporate.html.

Excerpts from SCOOP
(August 2001)

IEEE WEB SITE LOAD TIME

To decrease the loading time of IEEE Web pages, some content on the IEEE main Web site has been moved to 9,700 servers strategically placed in 56 countries by Akamai. When a user accesses a page, content such as graphics and PDF files, is

sent from the nearest Akamai server. Eventually, this type of content delivery will be extended to the entire IEEE main site. So far, the process is complete for the IEEE home page, Standards 802 offerings, the Travel Online home page and the search page. Overall, the average load time of pages on the IEEE Web site has improved since this transition began about four weeks ago.

ONLINE ACCESS TO TAB ROSTER

The IEEE Organization Roster, Part II - also known as the TAB (Technical Activities Board) Roster, is now available online. Included is the Mailing and Telephone Information section (A - Z) which has been tied directly to the IEEE Oracle membership database, thereby eliminating the need for a separate database to be maintained with potentially different contact information. The online roster data will be updated every two weeks and will provide a convenient and current resource for this information.

Access to the roster is secure and available only to members of TAB, TAB Committees, Society/Council Officers and AdComs, members of RAB identified by those included in the Geographical Roster (Part III of the IEEE Organization Rosters), and members of the IEEE Board of Directors. To view this document, those members should go to
http://www.ieee.org/organizations/tab/roster/ and enter Web Account username and password. A detailed "Problems and Questions" link is provided for assistance.

For further information or assistance with access, contact Rosemary Tennis, IEEE Technical Activities, telephone +1 732 562 6524; email tabroster@ieee.org.

SIX NEW JOURNALS TO BE PUBLISHED IN 2002

In 2002, the IEEE will publish the following new journals:
"IEEE Antennas and Wireless Propagation Letters"
"IEEE Transactions on Mobile Computing"

"IEEE Transactions on Molecular, Cellular and Tissue Engineering"
"IEEE Transactions on Nanotechnology" (online only)
"IEEE Pervasive Computing Magazine"
"IEEE Transactions on Wireless Communications"
For information, contact Laura Pohl - IEEE Technical Activities -
telephone
+1 732 981 3446; l.pohl@ieee.org.

PEERS

Educational Activities has launched a new Web site called IEEE Pre-College Educator/Engineers Resource Site (PEERS) to help engineers and educators work together to raise technological literacy at the pre-college level. Visit PEERS at http://www.ieee.org/eab/precollege/peers/index.htm.

ieeedelhinews
vol 01 no 10
october 2001

From the desk of ECC

Dear *esteemed colleagues*,

Another issue of our Section e-newsletter - with of course in a very short form to bring to your notice specifically the latest information about our mega-event ACE2001. Daman has given a article for your consumption. Certain items of Leadership Wire too are figuring for the benefit of general membership. I wish our strength in the mean time has gone up. About that I will definitely apprise you in the next issue.

With regards,
Sincerely yours
Dr. S.Mukhopadhyay
Chicago, IL, USA
October 05, 2001
(e-mail: ieeedelhi@ieee.org
URL: http://www.ewh.ieee.org/r10/delhi)

About ACE 2001
Organized By

IEEE Delhi Section
November 1st, 2nd and 3rd, 2001
INDIA HABITAT CENTRE
Lodhi Road,
New Delhi - 110 003

WHO SHOULD ATTEND

Officers/engineers from government, public sector, private industries, academic institutions, consultants and others dealing in Power, Communication, Information Technology, Electronics, Entertainment and related sectors.

The theme of ACE-2001 is **C**onvergence in **S**emiconductors, **P**ower, **I**nformation Technology, **C**ommunications and **E**ntertainment (**SPICE**). Convergence in these fields has dramatically impacted the global economy and has made world a global village. **SPICE Convergence** shall not only help in creating new opportunities of growth, employment, and prosperity but also open up new vistas in applications, technologies and services thereby making life of the people more comfortable and convenient.

ACE-2001 TUTORIAL PROGRAM
1st NOVEMBER, 2001

Registration : 8:30 AM to 9:30 AM
Tutorial-I : 9:30 AM to 1:00 PM
Title : **Co-design Tools & Architectural Adaptation for deep Sub-micron VLSI Systems**
Faculty : Prof. Rajesh Gupta, Dept. of Computer Science, University of California, Irvine, USA
Recent availability of cores, or pre-designed specialized function cells such as microprocessors, RF components, network interfaces, encryption and compression engines, has lead to exciting possibilities in building complex systems on a single-chip for embedded systems in a short time. In this tutorial, the bottlenecks in system co-design from specification to system partitioning and co-simulation challenges will be identified. An overview of the on-going research on design tools for single-chip embedded computing systems for moderately complex computing and non-computing applications such as network interfaces and broadband switching will be presented

Tutorial-II : 2:00 PM to 5:30 PM	
Title : **Voice Quality in Packet Communication**	
Faculty : **Dr. Aloknath De, Hughes Software Systems, Gurgaon & Dr. Arun Kumar, Indian Institute of Technology, Delhi**	

In this tutorial, voice quality issues in packet communication are addressed in detail. For voice compression, generally G.711 – PCM, G.726 ADPCM, G.728 - LD-CELP, G.729/G.729A - CS- ACELP and G.723.1 - Multi Rate CELP codes are used for rates varying from 64 bps to 5.3 kbps. Speech quality, under tandemmed conditions, is generally inferior and a tandem-free operation (TFO) scheme drastically helps in maintaining voice quality. Also, each component in the data-flow pipeline, from coding to transport to reception to decoding, adds delay to the overall transmission, by a fixed or variable amount. With illustrations of typical VoP systems, in this tutorial, the various signal processing modules are described, the design challenges involved are highlighted and how the DSP components play an active role in alleviating voice quality degradation in packet communication is elucidated.

Tutorial-III : 9:30 AM to 1:00 PM

Title : **Power Systems in the 21st Century : Trends, Challenges and the Role of Advanced Technologies**

Faculty : Dr.Prabha Shankar Kundur, President & CEO, Powertech Labs Inc., Surrey, B.C., Canada

Power Systems in the 21st Century : Evolution of the electric power industry; The new power industry environment worldwide; Longer term trends; Environmental concerns, the hydrogen economy, and new forms of generation; Power quality, efficiency and reliability requirements; *Power System Security :* Factors influencing security; Different stability problems and their mitigation; Examples of major system disturbances, and lessons learned; Measures for improving security in the new environment; *Power System planning, Design and operation :* Planning issues and trends in the new industry environment; System design

requirements and challenges; New technologies for effective use of equipment and the integrated power system; Advanced technologies likely to influence future changes; Organization of future companies and workforce needed to run them; Discussion of the Indian Power Industry Environment.

Tutorial-IV : 2:00 PM to 5:30 PM

Title : **Understanding Numerical Relays Used in Power System Protection**

Faculty : **Prof. M. S. Sachdev, Sachdev Engineering Associates (Canada) Ltd. & Professor, University of Saskatchewan, Canada**

Power utilities in India and all over the world are in the process of installing numerical relays for protecting their equipment and systems. These systems are so well developed now that they not only protect the systems but also are capable of recording time-tagged events occurring in the system and can perform diagnostic tests on themselves automatically whenever required. This tutorial introduces all the relevant basic concepts, algorithms and hardware/ software modules forming these systems.

Introduction to numerical protection; *Signal conditioning:* Level Reduction, Filtering, Sampling, Quantizing & Multiplexing; *Signal processing:* Short & Long Window Algorithms for Measuring Frequency; Distance Protection with Computed Phasors.

Tutorial-V : **2:00 PM to 5:30 PM**
Title : **Tuning of Industrial Controllers: The Virtual Reference Feedback Tuning (VRFT) Approach**

Faculty : **Prof. Marco Campi, Dept. of Electrical Engineering for Automation, University of Brescia, Italy**

In many practical control applications, a mathematical description of the plant is not available and the controller has to be designed on the basis of measurements (data based design). Recently, a new approach to data-based controller design, known as Virtual Reference Feedback Tuning (VRFT), has been proposed for

circumventing this problem. This tutorial presents the VRFT method in its different aspects and some applications.

Introduction to controller design in absence of a mathematical description of the plant (data-based design); *The Virtual Reference Feedback Tuning (VRFT) approach:* basic principles; *VRFT for 1-degree-of-freedom controllers :* control of a mechanical transmission system; Treatment of noise; *VRFT for 2-degree-of-freedom controllers :* control of a DVD system.

CONFERENCE PROGRAM

2nd NOVEMBER 2001

8:30 AM – 9:30 AM Registration

9:30 AM – 11:00 AM Inaugural function

Tea/Coffee Break

11:30 AM – 01:00 PM	
Session I : Convergence of Power, IT & Communications in Energy Control Centres	**Session II :** Embedded Systems
Invited Lecture : Dr. P.S. Kundur, Canada	**Invited Lecture :** Dr. Rajesh Gupta, USA

LUNCH

2:00 PM – 03:30 PM	
Session III : Computerized Power System Operation	**Session IV :** Digital Signal Processing & Its Applications
Invited Lecture : Mr.S.C. Mishra, PGCIL	**Invited Lecture :** Mr A.S.Guin, All India Radio & Doordarshan

Tea/Coffee Break

4:00 PM – 05:30 PM	
Session V : Semiconductors & Power Electronics	**Session VI :** Wireless & Personal Communication
Invited Lecture : Mr. B.S. Gupta, BHEL	**Invited Lecture :** Dr. S. Hariharan, Lucent

3rd NOVEMBER 2001

9:30 AM – 11:00 AM	
Session VII : Intelligent Control of Power Transmission Systems	**Session VIII :** Multi-media Applications for Internet
Invited Lecture : Mr. A.K. Tripathy, BHEL	**Invited Lecture:** Mr.Amitabh Kumar, ZEE Telefilms

Tea/Coffee Break

11:30 AM – 01:00 PM	
Session IX : Intelligent Power System Protection	**Session X :** Communication Technology for Global Networking
Invited Lecture : Dr. M.S. Sachdev, Canada	**Invited Lecture :** Dr. Dilip Paul, USA

LUNCH

2:00 PM – 3:30 PM	
Session XI : Energy Management	**Session XII :** IT-Enabled Distribution System : Automation and Planning
Invited Lecture: Dr Mahesh Chandra, NIC	**Invited Lecture:** Mr. Kumud Goel, KLG Systel Ltd.

Tea/Coffee Break

3:45 PM – 4:30 PM

Presentation of Award Winning Papers of **MVC Student Paper Contest**

4:30 PM – 6:00 PM

Panel Discussion on **Convergence in SPICE**

Category	Participation Fees
	Tutorial (Rs) (for each subject)
IEEE Member	500
Non Member	1000
IEEE Student Member	Complimentary (Limited)
Other Student	250
	Conference (Rs)
IEEE Member	2000
Non Member	3000
IEEE Student Member	500
Other Student	1000

REGISTRATION FORM

Participating in :

€ Conference   € Tutorial – I
€ Tutorial – II   € Tutorial – III
€ Tutorial – IV   € Tutorial – V

Name (as you write)
_____

Designation:
_____

Name & Address of Organization:
_____
_____
_____

Phone: _____

Fax: _____

E-mail: _____

IEEE Membership Status: Member / Nonmember

(if you are an IEEE member, please attach a photocopy of your current
IEEE membership card)

Cheque/Bank Draft No. _____

dated _____ for
US$_____
/Rs._____   towards
registration fee drawn in favour
 of "ACE-2001" payable at New Delhi is
enclosed.

Date:_____

Signature:_____

Please send the registration form along with payment to

**Prof. R. Balasubramainan, CES, IIT, Hauz Khas, New Delhi 110 016
Ph. 011-6591246 (O), 6562181 (R)
Fax.6862037 email: balu@ieee.org**

THE PC AT 20 ! - YOUNG OR OUTGROWN ?

In August last, the IT industry celebrated the 20th birthday of its most prominent player, the PC. What do we do now - "Marvel at its longevity, or look to the future." Because we know that in the meantime, demand for the ever-more-powerful 'box' is beginning to slow.

Please notice some of the comments that the user community makes:

"While Microsoft, Intel and others in the PC value chain may want users to go through another upgrade cycle, users don't want to. They finally have stable desktops that can run most applications they need."

"So, What's next? NOTHING. The PC has finally achieved maturity,"

But then what about those players in the industry who are still pushing the 'newer, faster, better' PCs ?

Here is what Bill Gates recently said: "In the coming decade, the PC will continue to become more powerful ... I'm confident we won't run out of new things to do with the PC soon. If the past 20 years have been impressive, the next 20 will be astounding."
But we all know that the old Chinese curse "May You Live In Interesting Times" has caught our beloved industry and lately, demand for PCs has not been impressive. **During the second quarter of this year, worldwide PC sales dropped for the first time in fifteen years.**

It is expected that Microsoft and chip manufacturers like Intel will be hit hard if PC sales drop (in direct proportion i.e. 5% drop in PC sales will result in 5% drop in sale of their products).

Microsoft's new XP suite needs more processing power and memory, but it remains to be seen whether people will take to it and so demand faster PCs, because there is already a line of thought saying that the "Users are fed up with paying the **Wintel (Windows-Intel) Tax."**

It's commonly believed now that "today's PC is really wildly over-featured but isn't that easy to use" and that "They (the PCs) may have got more and more stable, but we don't understand how they work anymore."

Giving a blow to the more powerful PCs is that fact that more and more enterprises and applications are moving towards browser-based computing, where the requirement is only little more than a 'dumb terminal' rather than a PC.

Truly, the vast power of today's PC is only used for a select number of applications such as gaming, graphics and digital audio. It is being anticipated that the idea tomorrow may be to have less processing power and avoid license fees and forced upgrades (e.g. by using Linux).

Here's another fact : By May 2001, the open-source suite of Sun's StarOffice had recorded five million downloads and over 20 million copies distributed worldwide - less developed markets such as India, China and Eastern Europe may provide a lot of scope in this direction.

Finally a question to all our readers (IT industry might use this sample response as input to a great research) : "Is the PC going to see a challenging change ? "

Daman Dev Sood
Tata Consultancy Services

(compilation based on Rob Gallagher's paper in UK)

Excerpts from Leadership Wire
(14 September 2001 Vol. VI, No. 17)

IEEE ELECTION BEGINS
The 2001 IEEE Annual Election is underway and only signed ballots received in sealed envelopes by noon on 1 Nov. will be valid and counted. For more information, contact Angela Wyckoff, IEEE Corporate Activities, at MailTo: "a.wyckoff@ieee.org".

JULY MEMBERSHIP HIGHLIGHTS
IEEE membership totaled 346,636 in July, up 2.7 percent from the same period last year. Student membership grew at 9.7 percent to bring the total to 54,712. Higher-grade memberships grew 1.5 percent to 291,924 members worldwide. For more information, visit "
http://www.ieee.org/organizations/rab/md/aug01_progrpt.pdf".
E-MAIL ALIAS SERVICE STOPS RECORD NUMBER OF VIRUSES
The IEEE Personal Email Alias Service stopped nearly 25,000 viruses in July -- five times more than in June. All IEEE e-mail is routed through this service, which is free to all members. About 65,000 members currently use it. Before accepting incoming e-mail, the service scans all messages and attachments with anti-virus software, which

is updated daily. If a virus is detected, the message is deleted. An alert is then sent to the sender and the recipient. Clean messages are immediately delivered. For more information, contact Matt Persons, IEEE Information Technology, at MailTo: "m.persons@ieee.org".

SENIOR MEMBER ELEVATIONS STILL SHORT OF GOAL

Nearly 1,015 members have been elevated to senior member grade as of August. However, this number is still short of the goal of 1,500. One-third of all IEEE Societies have no senior member nominations to their credit this year, while seven Societies have only a single nomination. All Sections and Societies are urged to submit their nominations for senior members as soon as possible. For more information about how your Society or Region is doing in reaching its goal, visit "http://www.ieee.org/organizations/rab/md/2001smgoals.htm".

2002 IEE FARADAY LECTURE SCHEDULED

The 2002 IEE Faraday Lecture on "Smart Living @ home with technology" will be broadcast at 1 p.m. EST on 6 Feb. 2002. Free downlinking of the simulcast will be available from IEEE Educational Activities. The lecture will investigate how much people's home environment technologies can and will change lives. IEEE members are encouraged to volunteer at participating schools on the day of the broadcast to answer questions about being an engineer.

Read more about the lecture at "http://www.ieee.org/eab/precollege/faraday/index.htm".

For more information, contact Celeste Torres, IEEE Educational Activities, at MailTo: "c.torres@ieee.org".

ONLINE POLL INTRODUCED FOR IEEE STUDENT AND GOLD MEMBERS

In June, IEEE Regional Activities and IEEE Sales & Marketing implemented the first online poll at
 "http://www.ieee.org/students"
to encourage students to visit the IEEE Web site more often. An online poll also is being featured on the Graduates of the Last Decade Web site at
"http://www.ieee.org/organizations/rab/gold".

INTEL AND MICROSOFT JOIN IEEE STANDARDS ASSOCIATION

Intel Corp. and Microsoft Corp. recently joined the IEEE Standards Association as Corporate Members, bringing the total number to 40. The complete list of Corporate Members is at
"http://standards.ieee.org/sa-mem/corpmemlist.html".
For more information, contact Ronni Rubenstein, IEEE Standards, at MailTo: "r.rubenstein@ieee.org" or visit
"http://standards.ieee.org/sa-mem/corporate.html".

ieeedelhinews
vol 01 no 11
november 2001

From the desk of ECC

Dear *esteemed colleagues*,

Yes, we have done it. With a good number of participants from the various parts of the country Annual Convention and Exhibition - ACE 2001 of IEEE India Council was held in Delhi and met the expectations of those involved with it. Separately a report on the event is appearing in this issue of e-newsletter. Congratulations to the Jamia Milia Islamia Student Branch and its Counselor for the phenomenal growth. Thanks are also due to PES-IAS Chapter for its membership strength touching the critical three-digit figure to enable it to be recognized as large Chapter. As I missed in the last two issues, in a consolidated form membership statistics are being given for end-August, September, October 2001 now.

With regards,
Sincerely yours
Dr. S.Mukhopadhyay
New Delhi
November 05, 2001
(e-mail: ieeedelhi@ieee.org
URL: http://www.ewh.ieee.org/r10/delhi)

A Brief Report on ACE 2001

XXVII Annual Convention and Exhibition - ACE 2001 organized by IEEE India Council and Delhi Section was held at India Habitat Center, New Delhi from November 01 to 03, 2001. With the theme as Convergence in SPICE (i.e., Semiconductor, Power, Information Technology, Communications and Entertainment), the Convention in all had in the very first day *four* tutorials, in the remaining two days *twelve* sessions, each starting with invited lecture and involving *forty-three* papers in total in the concerned areas. With 149 participants (50 IEEE Members and 99 others) attending the event, it was inaugurated on November 02 by the Honorable Union Minister of Power Mr. Suresh P. Prabhu. He stressed the issue of taking benefit of technological development in various fields and coordinate the applications for producing quality goods and efficient servicing to the end-users. In this regard, example of power line for use of tele-communication needs too were mentioned. In his key-note address, Mr. H.W.Bhatnagar, Director (Industry), Bharat Heavy Electricals Ltd. gave a brief account of advances in various fields of power, communications, electronics, entertainment, etc. and inter-dependence on each other in usage in the background of global scenario vis-à-vis that in India. Mr. H.L.Bajaj, past-Director, IEEE Region 10, while delivering the presidential address in the same tone highlighted the status of technological development in India and a picture of that exist in the advanced countries, thereby projected the goal to be targeted.

Honorable Union Minister of Power Mr. Suresh P. Prabhu (third from left) in the inaugural session of ACE 2001 with others (from left to right) M/S P.K.Srvastava (IEEE India Council Chair), H.W.Bhatnagar (Director, BHEL), H.L.Bajaj (past-Director, IEEE Region 10), Prof. R.Balasubramanian (IEEE Delhi Section Chair) & Dr. Ram Nath (IEEE Delhi Section Secretary)

The Convention ended with a panel discussion Chaired by Dr. D.P.S.Seth, Chairman & Managing Director, Bharat Sanchar Nigam Ltd. with Prof. R.Balasubramanian (IIT Delhi), Prof. M.S.Sachdev (University of Saskatchewan, Canada), Prof. H.M.Gupta (IIT Delhi), Dr. Dilip Paul (IEEE Washington Section, USA) and Prof. V.K.Damodaran (IEEE India Council) as the other panelists. It emerged from the discussions that though the advances should continue in individual disciplines with specialization, convergence to deliver end-product as already evident in certain spheres, like, Cable TV, Internet Service, Communication, might encompass further areas of technologies. In this context strong inter-action between academia and industry towards Research & Development was also advocated.

Though Exhibition part of ACE 2001 was canceled, the event was having extensive display by sponsors, Bharat Sanchar Nigam Ltd., Tata Consultancy Services, Powergrid Corporation of India Ltd., Essar Power Ltd. Other sponsors for the event were Telecommunications Consultants India Ltd., KLG Systel Ltd., Ministry of Information Technology, National Thermal Power Corporation Ltd.

Besides these, India Council had its Executive Committee Meeting in the afternoon of November 02 and in the last day, presentation of first prize-winning paper in the M.V.Chauhan Student Paper Contest conducted by IEEE India Council.

The world's first IT Lifestyle Census

... was recently conducted in UK. The results are summarised below:

a) about you
1. How many hours do you work each week?
On average - a massive 42 hours, compared to a national average of 32.9
2. Do you enjoy your job?
I enjoy it all the time - 11%
I enjoy it most of the time - 76%

I neither enjoy nor dislike it - 8%
I dislike it most of the time - 4%
I dislike it all the time - 1%
3. Is your job stressful?
Yes, I am under constant pressure to deliver results and/or solve problems - 42%
I am sometimes under pressure in my job, but I don't feel stressed - 55%
I never feel stressed at work - 3%
4. When are you likely to change jobs?
Immediately - 4%
Within the next three months - 14%
Within 12 months - 22%
Within 3 years - 60%
5. What is your annual salary?
On average - £35,000 compared to a national average of £21,000

b) your home life
6. What is your marital status?
30 % are single, and under half are married
7. How many children do you have?
0.8 on average
8. Do you own your house/flat?
Own - 72%
Rent - 20%
Live with owner - 8%
9. What type of property do you live in?
Over 2/3rds of respondees have three or more bedrooms in their house

c) your background
10. How long have you worked in IT?
An average of 13 years
11. Why did you decide to work in IT?
Exciting industry - 17%
Money - 19%
Responsibility - 4%
Technical challenges - 15%
Business challenges - 14%
Good career prospects -26%
Other - 5%
12. If you didn't work in IT, what profession would you want to work in?
Health - 12%
Public Sector - 11%
Defence - 6%
Marketing - 18%
Retail - 4%
Travel - 17%
Transport - 6%
La w - 8%

Manufacturing - 8%
Accountancy - 10%

13. What educational qualifications do you have?
52% have a degree
73% of those with A-Levels have three or more
59% have 8 or more GCSE's

d) your time in
14. How many hours of TV do you watch each week?
11 on average
15. Are you a good cook?
Yes, I'm the next Masterchef! - 8%
I'm a very competent chef - 21%
I'm quite a good cook - 53%
I'm hopeless! - 10%
I never cook - 8%
16. What is your favourite type of food?
French - 15%
Italian - 34%
Thai - 10%
Indian - 18%
Chinese - 9%
British - 7%
American - 2%
Mexican - 5%
17. What are your hobbies?
Fishing - 3%
DIY - 16%
Stamp collecting - 2%
Music - 26%
Playing cards - 6%
Sport - 33%
Gardening - 14%

e) your time out
18. How many evenings do you go out during the week?
Less than twice a week on average
19. Do you work at weekends?
Sometimes - 61%
Always - 3%
Never - 36%
20. What car do you drive?
Vauxhall - 13%
21. What car would you like to drive?
Mercedes - 13%
22. What is your favourite movie?
Star Wars - 8%

f) your holidays
23. What is your favourite type of holiday?
Skiing - 8%
Sightseeing - 12%
Beach holiday - 17%
Activity holiday - 10%
Self-catering - 3%
'Bit of everything'- 50%
24. What is your favourite holiday destination?
USA - 19%
25. How many holidays do you take each year?
74% take two or more holidays a year

g) your sport
26. Which sports do you watch regularly
Football - 30%
Rugby - 20%
Tennis - 13%
Cricket - 12%
27. What sports do you play regularly (e.g. at least once a month)?
Football - 20%
Snooker - 7%
Horse Riding - 9%
Golf - 18%
Swimming - 26%
Rugby - 3%
Crick et - 4%
Archery - 4%
28. Do you watch sport on the TV or 'live'?
44% attend live matches

h) your media
29. Do you buy a daily paper?
Every day - 21%
Sometimes - 51%
Never - 28%
30. Online news services are becoming more useful than printed media. Do you agree with this?
Online news is more useful to me - 33%
Online news and printed media are equally useful - 47%
Online news and printed media are equally unimportant to me - 4%
Printed media is still far more useful to me than online news services - 6

i) your views on IT
31. Which IT invention or innovation was the most important?
Internet - 40%
MS Dos - 8%
E-Commerce - 7%
Lara Croft - 3%
32. Which of the following would you most like to dine with?
Bill Gates - 23%
Ali G - 22%
Jordan - 15%
33. Which of the following IT companies would you most like to work for?
Microsoft - 14%
Oracle - 11%
Apple - 7%
No major IT company - 36%
34. Which of the following do you believe is going to make an impact?
E-Commerce - 69%
High bandwidth - 66%
Wireless Commerce - 53%
Thin Client Technology - 45%

Although the results are based on UK data, I am sure the same is reflected in the similar way in India too.

Daman Dev Sood
Tata Consultancy Services

Forthcoming Technical & Professional Activities

December 07, 2001: 6-15 P.M.: Lecture on 'Power Systems - Yesterday and Today' by Prof. M.S.Sachdev, Sachdev Engineering Associates & Professor, University of Saskatchewan, Canada in the Committee Room, EE Dept., IIT Delhi (along with PES-IAS Chapter and IEE Delhi international Center)

India Council selected winner of the Communications Society Chapter Achievement Award for 2001

As intimated by the IEEE Communications Society to Dr. Ram Gopal Gupta, Chair of India Council's AES-COM-LEO Societies Chapter, India Council been selected winner of the Communications Society Chapter Achievement Award for 2001. The award is scheduled to be presented at GLOBECOM, during the Awards Luncheon to be held Monday, November 26, 2001 in San Antonio, Texas, USA. Dr. Gupta is also the ComSoc Delhi Chapter Chair. Section congratulates him and the other IEEE volunteers for this meritorious achievement.

Excerpts from Leadership Wire
(19 October 2001 Vol. VI, No. 20)

DEADLINE NEARS FOR IEEE IDENTITY STANDARDS COMPLIANCE
Transition to the new Identity Standards for the use of the IEEE Master Brand is underway. All print and electronic materials – including publications, documents, multimedia materials and Web pages – should comply with the Master Brand Identity Standards by 31 Dec. 2001. To obtain a copy of the standards, visit "http://www.ieee.org/copyright/IDStandards.pdf". For more information, contact the IEEE Intellectual Property Rights Office at Mailto:"copyrights@ieee.org".

2002 RENEWAL NOTICES MAILED, INCENTIVE FOR WEB RENEWALS
IEEE membership renewal invoices for 2002 were mailed on 5 Oct. to members in Regions 8, 9 and 10; and on 8 Oct. to U.S. and Canadian members. Members who renew their IEEE membership at the Web site "http://www.ieee.org/renewal/" by 15 Nov. will qualify for a chance to win a Sony Vaio FX Series Notebook Computer. The drawing will be held 29 Nov.

NEW VOLUNTEER RESOURCES PAGE
The Volunteer Resources Web site at "http://www.ieee.org/organizations/vols/" has been revised. New features include links to organizational unit's home page, quick links to sites used by volunteers, and a feedback page to suggest sites that should be linked from the Volunteer Resources Home Page. For more information, contact John Wettlaufer, IEEE Technical Activities, at MailTo:"j.wettlaufer@ieee.org".

OPPORTUNITY TO PROMOTE IEEE CONFERENCES ON HOME PAGE

The IEEE Home Page editors seek to increase IEEE conference coverage by spotlighting notable keynote speakers, novel technologies, new and unique locations, uncommon tutorials or other sessions. Conferences must have submitted an information schedule to IEEE Conference Services at "http://www.ieee.org/organizations/tab/conflink.html" and have a Web site to be considered. Send IEEE-sponsored or cosponsored conference information to Debra Schiff, IEEE Corporate Communications,MailTo:"d.schiff@ieee.org".

MORE THAN US$325,000 IN GRANTS RECEIVED

The IEEE received more than US$325,000 in grants from the following agencies during the third quarter:
US$209,852 from the U.S. Federal Highway Administration
US$45,000 from the U.S. Department of Energy
US$27,118 from the Office of Naval Research
US$20,720 from the National Science Foundation
US$10,000 from the Air Force Office of Scientific Research
US$5,000 from the Army Research Office
For more information or to pursue external grant opportunities for an IEEE conference or project, contact Karen Galuchie, IEEE Development Office, at
Mailto:"k.galuchie@ieee.org".

Excerpts from SCOOP
(October 2001)

E-MAIL ALIAS SERVICE STOPS RECORD NUMBER OF VIRUSES

The IEEE Personal Email Alias Service stopped nearly 25,000 viruses in July, five times more than in June. All IEEE email is routed through this service, which is free to all members. About 65,000 members currently use it. Before accepting incoming email, the service scans all messages and attachments with anti-virus software, which is updated daily. If a virus is detected, the message is deleted. An alert is then sent to the sender and the recipient. Clean messages are immediately delivered. For more information, go to
http://eleccomm.ieee.org/personal-aliases.shtml.

IEEE DELHI SECTION MEMBERSHIP STATISTICS AT A GLANCE
(as in end-Aug/Sep/Oct 2001)
Total : 1541/1553/1682

Grade	Strength
Honorary Member	2/2/2
Fellow	2/2/2
Senior Member	134/134/134
Life Senior Member	8/8/8
Member	538/541/564
Life Member	2/2/2
Student	387/388/459
Others	468/476/511

Chapter	Strength
C016: Computer Society	200/203/204
COM019: Communications Society	231/233/231
PE031: Power Engineering Society – IA034: Industry Applications Society	99/99/100
CAS004: Circuits & Systems Society – CS023: Control Systems Society	72/70/70
EM014: Engineering Management Society	23/22/21

Student Branch	Strength
40336430: SJPMLIET, Radaur	2/2/2
2591901: DCE, Delhi	9/8/36
2518473: Engg. College, Ajmer	49/49/48

2510361: REC, Kurukshetra	3/3/3	2591103: MBM Engg.	12/11/11
2534861: JMI, New Delhi	30/30/68	College, Jodhpur	
2518443: PEC, Chandigarh	94/94/94	2590001: IIT, New Delhi	7/9/9
2503861: BITS, Pilani	9/9/9	2534811: NSIT, New Delhi	24/23/23

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From the desk of ECC

Dear *esteemed colleagues*,

We are completing just one year of our existence with the issue of the 12th issue of our Section's e-newsletter. This time it is being circulated to reach more than 1,400 Section Members (having e-mail access declared to IEEE) out of 1,800 plus we are now, after re-structuring the majordomo database with the help of HQ. staff. In the mean time you have urged to furnish the newsletter, besides in MS Word, in html and pdf formats. However to the extent possible, attempt has been made to accommodate the desires, particularly keeping in mind that some even face the problem of opening attachment and asking to give text right in the body of the message. Of course, few in extreme case wanted to be out of the list of circulation. In this context while re-structuring all those declared e-mail to IEEE HQ. have been included for circulation. If any one of you want to be out please send a mail to me at IEEE Delhi Section address ieeedelhi@ieee.org or at my address subrata@ieee.org so that from the majordomo list the concerned address can be unsubscribed. **PLEASE DO NOT EXPRESS YOUR DESIRE TO UNSUBSCRIBE TO delhi@majordomo.ieee.org AS IT CREATES UNNECESSAY MAIL TO THE REST IN THE LIST.**

Your cooperation and feedback is very much essential to run this e-newsletter.

Slate for new EXECOM for the year 2002 is being circulated shortly with AGM on January 20, 2001. So keep yourself free on that day to attend in maximum number.

With regards,
Sincerely yours
Dr. S.Mukhopadhyay
New Delhi
December 09, 2001
(e-mail: ieeedelhi@ieee.org
URL: http://www.ewh.ieee.org/r10/delhi)

Forthcoming Technical & Professional Activities

1. December 14 (Friday) Lecture at 4-00 P.M. in the Computer Science & Engineering Department Seminar Room (Block-VI, Room No. 430), IIT Delhi on "Co-design Tools & Architectural Adaptation for Deep Sub-micron VLSI Systems" by CAS DL Prof. Rajesh Gupta, Dept. of Computer Science, University of California, Irvine, CA, USA (along with CAS-CS Societies & Computer Society Chapters & IEE Delhi International Center)
2. December 17 (Monday) Lecture at 4-00 P.M. in the Committee Room of EE Dept., IIT Delhi on "Optical Networking with IP over DWDM: Recent Advances, Trends, and Issues" by Prof. Raj Jain, Dept. of Computer and Information Sciences, University of Ohio, Columbus, Ohio, USA (along with ComSoc Chapter, EE Society of IITD & IEE Delhi International Center)
3. December 19 (Wednesday) Lecture at 4-00 P.M. in the Center for Energy Studies Committee Room (Block-V, Room No. 343), IIT Delhi on "Enhancement of Efficiency of Gyratrons for Fusion Energy Applications" by Prof. Amarjeet Singh, ex-Director, CEERI, Pilani, Rajasthan (along with "Energy Forum" - IIT Delhi Energy Center Society & IEE Delhi International Center)

ENCOMIUM 2001: An Intellectual Odyssey

In the year 1985, the dream of a few visionary men was realized in the establishment of the Faculty of Engineering

& Technology at Jamia Millia Islamia. On November 8, 2001, another dream was fulfilled.

ENCOMIUM -the technical festival was organized for the very first time at the Faculty of Engineering &Technology by the members of he IEEE Student Branch of Jamia Millia Islamia.

The day began with the Inaugural Session at 9.30 am. The session commenced with an invocation from the Holy Quran. There was a star studded panel of Guests consisting of Mr. Syed Shahid Mahdi (Vice-Chancellor, JMI), Prof. R.S. Sirohi (Director, IIT Delhi), Mr. H.L.Bajaj,(Director, NTPC), Mr. M.N.A. Chaudhary (Pro-Vice-Chancellor, JMI),Prof. Moinuddin (Head EED,JMIi) Prof. M.R.Khan, (Dean, FET), IEEE Delhi Section Chair Prof. R. Balasubramanian, IEEE India Council Chair, Mr. P.K.Srivastava and of course Dr. Mini S. Thomas(Branch Counselor, IEEE JMI).

After the welcome address by Prof. M.R. Khan, Dr. Mini S. Thomas made an introduction into ENCOMIUM. The Vice-Chancellor released the encomium souvenir-Foliate and addressed the gathering. This was followed by the Inaugural address delivered by Prof. R.S. Sirohi. He emphasized that every bright student along with engineering skills should have a "sound value structure". He remarked about the kind of projects being taken up by the students today.

It was now over to the ever jubilant Mr. H.L.Bajaj, who seems to be becoming a regular at the functions of the faculty. The highlight of his speech was his JOY formula for life. He said that it was important to enjoy everything we do in life. He said in JOY, J stood for a Job well done, O for optimism and Y for You. He ended with a translation of a sloka from Gita which was welcomed with a warm applause.

Now, there was a felicitation by Prof. Moinuddin and the launch of the Encomium web site by Mr. M.N.A. Chaudhary

(http://www.ewh.ieee.org/sb/delhi). As the pages of the website flashed across the screen the Vice chancellor handed out mementos to all the distinguished guests. At exactly 11.05 am, the inaugural session concluded with all of us departing for high tea.

Rationale, the paper presentation contest and Eniac, the software design contest went on side by side starting at 11.30 am.

RATIONALE was the technical battlefield of Encomium 2001 and participants poured in from all over India. The response to Rationale' in its maiden debut was overwhelming with around forty abstracts being received from an entire gamut of colleges from all over India. Out of the forty papers received fifteen papers were short listed for the final presentation & fourteen teams finally turned up for presenting their papers and explaining their ideas on November 8, 2001.

The judges for Rationale` were – Dr.K.S.Chari (Sr. Director, MIT) , Dr. D.R.Bhaskar (F/O Engg.& Tech.),Mr. Somendra Kumar(ESPL. Delhi), Mr. Gaur (NIC) all pioneers in their respective fields of electrical & electronics. The papers presented were on topics as diverse as signal processing & photonic crystal fibers etc. Sumit Chachra and Himanshu Sahani from IIT-Roorkee shared the first prize for their paper "AI Applications For Signal Processing" with Richa Gupta from Indraprastha College U.P, who presented a paper on "Enzyme Field Effect Transistor". The second prize was shared two teams from NSIT. The third prize went to Kiran Mishra, Saurabh Prasad & Sirat Moin from JMI.

Rationale created an academic ambience at Encomium and induced a spirit of intellectual pursuit into those in attendance.

ENIAC, the software design contest started in the Computer lab dimly lit by the glow of the projector at 11.30 am. As the organizers huddled around a PC to get the presentations started, the participants sat in

clusters, their heads close together and talked in anxious whispers. One didn't have to eavesdrop to know that they discussed where their software stood as compared to the others.

The judges for Eniac were Prof. S.I.Ahson from Computer Science Department of JMI, Mrs Savita Goel from IIT Delhi and Mr. Manaullah from JMI. ENIAC was a pre designed original software contest. The only constraint on the entries was of the development platform being Borland Turbo C++. The response of the students was very encouraging since we received entries from all over India with software ranging from funky games to some typical technical applications. We received a total of 23 entries out of 10 had been selected to presented in Encominum's ENIAC. Nine teams turned up for the actual event.

After an exhaustive session of presentations, the judges came out with the results. A Digital simulator designed by V. Chandrasekhra Srinivas and K.Srinivas Raju from REC , Warangal and a package of games called XBOX designed by Konark Goel, Piyush Singh and Sandeep Pathak from NSIT, Delhi, were awarded the first prize. The third prize was again a tie, shared by Dheeraj Sharma and Faisal Quiyum of JMI and a team from Amity school of Engineering and Technology.

The lunch break created a ripple, as the sumptuous food packets were an instant hit served with mineral water bottles to around 200 people, without a hitch and confusion.

ENIGMA, the quiz was the most anticipated event of Encomium 2001 and was the real crowd puller. It began with the preliminary round in the drawing hall in the morning.

What was so special about 1916 Olympics? Which Indian teenager recently wrote a book on "Ethical Hacking?" Which company built the bridge featured in the movie "The Bridge on the river Kwai?"

If you know the answers to these questions, you would have definitely reserved a place for yourself in the final round of ENIGMA which took place in the faculty auditorium. 5 teams of two members advanced to the final round. They consisted of 2 teams from JMI, 2 from NSIT and one from DCE. There were 7 thrilling rounds, among them were the sports round, Audio Clue round, Video clue round, movie round and the literature round. After an hour of heavy duty quizzing, the teams from JMI came second and third, with a team from NSIT took away the first prize.

It was overall, an exciting and entertaining event – the crowd Puller of Encomium 2001.

The corporate world is the dreamland of students in engineering colleges today. Encomium 2001 allowed them to peek into this dreamland in CORPOVISION. This consisted of presentations from Hughes Software Systems, and National thermal Power Corporation.

Jamia Millia Islamia was the patron of Encomium. It was Co sponsored by NTPC, Power Finance Corporation, IEEE AES COM LEO Chapter, IEEE India Council, IEEE Delhi Section and IEEE ED MTT chapter.

It was the end of the beginning of a new chapter in the history of the Faculty of Engineering and Technology – ENCOMIUM 2001. There was a sense of satisfaction and achievement among all those involved. An all India technical festival has been organized and executed efficiently and Successfully at he faculty by the IEEE Student Branch and this realization filled everyone with contentment and joy.

Dr. Mini S. Thomas handed out the prizes and participation certificates and spoke about the IEEE and her experience as Branch Counselor.

The day came to a delightful end, and will occupy in the memories of those who were a part of the time and space of Encomium 2001.

Encomium was attended by around 200 people, out of which around 110 were IEEE members.

On November 29 in a very informal gathering, Mrs Nikhat Mahdi, the wife of Vice-Chancellor, JMI handed over Mementos and Volunteer certificates to around 55 enthusiastic Student Volunteers of IEEE JMI who worked for the success of Encomium.. The function culminated in an IEEE Iftar party attended by around 110 people.

Compiled by
Saif Ali, Student Member
Dr. Mini S. Thomas, Branch Counselor

Survival Of The Biggest

AN INTERESTING STORY

- The new professional services landscape will favor the strong.

- The combined effects of the global economic slowdown and the US attacks have accelerated the rate of change in the IT services market.

- The IT services market will see a boom in outsourcing and security consulting, but a dramatic fall of up to 20% in management consulting and e-business contracts.

- The consultants must become increasingly flexible about service delivery and pricing models, or fall victim to a wave of consolidation.
- Outsourcing will increase by 23% next year as companies supplement IT teams whose staff have been downsized.

- This trend will benefit large service companies. 'Customers are looking for someone who can provide security and availability. That traditionally benefits the big boys.

- The big winner will be security consulting and outsourcing, with growth rates in excess of 45%.

- The consulting firms must consider new ways of winning deals to survive. 'Enterprises are consolidating the number of service providers they work with, and that means traditional service providers will increase their dominance of the market.
- Smaller firms should focus on customer retention and stability, and consider partnering with larger providers in the short term.

- The industry is expected to see new pricing models, such as capacity on demand and usage-based pricing.

- On the other hand, the smaller service providers are against the 'consolidation, drives themselves. The feeling is that 'As a concept it works, but every partnership we make with the likes of IBM takes away a little bit of our independence, 'We value our independence, and wouldn't want to shoot ourselves in the foot.'

Daman Dev Sood
Tata Consultancy Services

(source: Sally Whittle, Giga Information Group, PentonEurope)

Excerpts from Leadership Wire
(8 November 2001 Vol. VI, No. 21)

2001 ANNUAL ELECTION RESULTS

OFFICE OF PRESIDENT-ELECT, 2002:
Michael S. Adler
OFFICE OF DIVISION DELEGATE/DIVISION DIRECTOR, 2002-2003:
Division I: Cary Yang
Division III: Stephen B. Weinstein
Division VII: Virginia C. Sulzberger
Division IX: John R. Vig

OFFICE OF DIVISION DELEGATE-ELECT/DIRECTOR-ELECT, 2002
Division IV: Harold L. Flescher
Division VIII: James D. Isaak

OFFICE OF REGION DELEGATE-ELECT/DIRECTOR-ELECT, 2002-2003:

Region 1: Roger K. Sullivan
Region 3: William B. Harrison, Jr.
Region 5: John W. Meredith
Region 7: William O. Kennedy
Region 9: Francisco R. Martinez

OFFICE OF REGION DELEGATE-
ELECT/DIRECTOR-ELECT, 2002:
Region 8: Anthony C. Davies

OFFICE OF STANDARDS ASSOCIATION:
President-Elect, 2002: Gerald H. Peterson
    BOARD OF GOVERNORS, MEMBERS-AT-
LARGE, 2002-2003:
    Profile 1: L. Bruce McClung
    Profile 4: Paul J. Menchini
    Profile 5: W. Charles Adams, Jr.
    Profile 6: Roy W. Alexander

OFFICE OF TECHNICAL ACTIVITIES VICE
PRESIDENT-ELECT, 2002:
Leah H. Jamieson

OFFICE OF IEEE-USA:
President-Elect, 2002: James V. Leonard
Member-at-Large, 2002-2003: Leann Asselin
Kostek

The number of ballots mailed was 249,374.
The number of valid ballots returned was
49,378. The rate of return was 19.80
percent. These results are also posted on
the IEEE Web site at
"http://www.ieee.org/organizations/corporat
e/candidates.htm".

    (16 November 2001 Vol. VI, No. 21)

IEEE XPLORE ENHANCED

IEEE Xplore Release 1.3 has been launched
with several enhancements. Among them
are:
    *New This Week - lists four weeks of the
newest content.
    *E-mail Alerts - sends a notification
when a journal or magazine title of interest
becomes available.
    *OPAC Linking - facilitates linking
between a library's Online Public Access
Catalog (OPAC) and the corresponding IEEE
title.
For more information about these and other

changes, visit the IEEE Xplore site at
"http://ieeexplore.ieee.org".

EASIER ACCESS TO MASTER BRAND IMAGE
FILES

A new Web page allows faster and easier
access to IEEE Master Brand image files.
Before downloading the files, users must
enter their names and titles, and agree to
licensing terms that legally protect the IEEE.
To access the page, visit
"http://www.ieee.org/copyright/logos.htm".

OCTOBER MEMBERSHIP STATISTICS
RELEASED

IEEE membership totaled 363,649 as of 31
Oct. with growth at 3.3 percent. Student
membership grew more than 3 percent in all
10 Regions, with growth of 14.3 percent
overall to bring the total to 62,186.

NEWSLETTER FOR CONFERENCE
VOLUNTEERS BEGINS PUBLICATION

An electronic newsletter for volunteers
involved in conference activities has been
launched by IEEE Technical Activities. The
yet-to-be-named quarterly newsletter will be
sent to conference chairs, conference
information contacts, conference treasurers,
financial officers, society presidents, society
treasurers, members of the Technical
Activities Board, the Regional Conference
Committee, and the IEEE Meetings and
Services Committee.

To receive the newsletter, contact Editor
John Wettlaufer, IEEE Technical Activities, at
+1 732 465 7809 or MailTo:
"j.wettlaufer@ieee.org".

REJUVENATING SOCIETY CHAPTERS

The Rejuvenation Subcommittee of the
Regional Activities Board / Technical
Activities Board Section / Chapter Support
Committee has been working with Society
and Region/Section volunteers to rejuvenate
inactive Chapters. There are currently 16.

For more information, visit

"http://www.ieee.org/rejuvenation/" or contact Tracy Hawkins, IEEE Regional Activities, at +1 732 562 5512 or mail to: " t.Hawkins@ieee.org".

NEWEST SENIOR MEMBERS NOW LISTED ON WEB SITE

The newest IEEE Senior Members, grouped by Region and Section, are listed at "http://www.ieee.org/organizations/rab/md/smupdates.html". To inquire about the status of a Senior Member application, send a message to "senior-member@ieee.org".

"IEEE SPECTRUM" WINS INDUSTRY AWARD

"IEEE Spectrum" won the Silver Ozzie Award in this year's competition for Best Redesign among association or non-profit magazines. The award is sponsored by "Folio," a publication for the magazine industry.

Excerpts from SCOOP
(November 2001)

RESOURCES FOR VOLUNTEERS

Check it out! A revised Volunteer Resources web site has been posted at www.ieee.org/organizations/vols (or go to the IEEE main page, www.ieee.org, and click on "Volunteer Resources"). New features of the site are direct links to various organizational unit home pages, quick links to sites used by many volunteers, and the capability to suggest pages that should be linked from the Volunteer Resources Home Page.

The site includes links for IEEE volunteers in the area of writing / creating content and publishing as well as for those involved in Technical Societies, Sections, Chapters, Student Branches, Conferences, Standards Development, Professional Development, and Organizational Unit Board Activities.

For additional information, contact John Wettlaufer of IEEE Technical Activities, telephone +1 732 465 7809, j.wettlaufer@ieee.org.

IEEE DELHI SECTION MEMBERSHIP STATISTICS AT A GLANCE
(as in end-Nov 2001)
Total : 1828

Grade	Strength
Honorary Member	2
Fellow	2
Senior Member	135
Life Senior Member	8
Member	625
Life Member	2
Student	501
Others	553

Chapter	Strength
C016: Computer Society	211
COM019: Communications Society	227
PE031: Power Engineering Society – IA034: Industry Applications Society	101
CAS004: Circuits & Systems Society – CS023: Control Systems Society	68
EM014: Engineering Management Society	23

Student Branch	Strength
40336430: SJPMLIET, Radaur	2
2591901: DCE, Delhi	81
2518473: Engg. College, Ajmer	48
2510361: REC, Kurukshetra	3
2534861: JMI, New Delhi	68
2518443: PEC, Chandigarh	93
2503861: BITS, Pilani	10
2591103: MBM Engg. College, Jodhpur	11
2590001: IIT, New Delhi	9
2534811: NSIT, New Delhi	23