

IEEE India Bulletin Vol. 11 No. 5 May 2001

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CHAIRMAN'S MESSAGE

Dear Fellow Members

On 6th & 7th April 2001, I had the opportunity to attend the Region 10 Committee Meeting at Singapore. The meeting was attended by about 85 persons consisting of Region 10 committee members, council & section chairs and representatives from headquarters including Mr. Ray Findlay, the IEEE President Elect. It was a good occasion when the IEEE volunteers from so many countries got together and exchanged their views on how to improve services to members and how to increase the growth of membership and activities in the Asia Pacific Region. My last regional meeting was as Delhi Section Chair in 1994 and so after a gap of 7 years it was nice to revive my involvement at regional level. (Highlights of the meeting are given in this issue)

Region 10 in terms of membership is presently second largest in the world, next only to Region 6 which is in USA and in Region 10, India is top among all the Asia Pacific countries. However, seeing the population of engineers in India, there is still a very good scope for further growth. Our young engineers due to their time consuming jobs are not able to involve themselves in IEEE activities and perhaps they need to interact more among their peers and age group. It is therefore necessary to inculcate interest in them so that more young engineers find it attractive to join IEEE. Keeping in view this aspect, the GOLD (Graduate Of Last Decade) scheme has been introduced a couple of years ago. It gives an opportunity to young engineers to plan activities of their interest, have interaction with their age group members, professionally as well as socially and at the same time there is a financial incentive of US \$ 200 to the section on formation of the GOLD Group. After formation of GOLD Group, the section continues to receive US\$180 annually, provided the GOLD Group organises at least two meetings in a year. I think this is a very attractive scheme and all our sections should try to form GOLD Groups. In this year each section should try to open at least one GOLD Group.

Besides GOLD Groups, other Affinity Groups like WIE (Women In Engineering) and Consultants' Network also allow the same incentives to the sections and sections may try to form the Affinity Groups also.

Region 10 is starting publication of a newsletter in electronic form and its first issue should be out in end May 2001. It is planned to publish four issues in the year 2001 which will contain Headquarter news, Regional news, Council news, articles of interest and a message from the Director. This may serve as a good communication channel and help in bringing together members of different countries and cultures in the region. As Chairman, India Council, I am in the Editorial Committee and news from Indian

Sections will go to the newsletter through me. I will like to project our activities appropriately in the newsletter and for this I would need timely inputs from all the sections.

The Annual Event of India Council viz. ACE 2001 will be hosted by Delhi Section on 1- 3 November 2001 at New Delhi. First Brochure for Call for Papers is already out. Theme of the conference is very broad based and covers all the areas of Power, Electronics, Information Technology, Communication and Entertainment. Delhi Section is making all efforts to ensure its success, but it will be possible only with the support of all the IEEE fraternity. May I request you all to give a wide publicity to this event and arrange for large participation of delegates. Details of ACE 2001 are given in this issue.

I would invite the suggestions from the members on how to make the role of India Council more effective and purposeful and also what they expect from the Council.

With best wishes,

Sincerely yours,

New Delhi
01 May, 2001.

P. K. Srivastava
Chairman
E-mail :
pk Sri@satyam.net.in



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IEEE REGION 10 COMMITTEE MEETING

AT SINGAPORE, ON 6 - 7 APRIL 2001

HIGHLIGHTS

IEEE Region 10 comprising of Asian Pacific countries from Pakistan in the west to all the Asian countries to its east including Australia & New Zealand is the SECOND largest in the world in terms of membership of IEEE, next only to Region 6 which is in USA. The membership growth in 2000 was 8.4% more than in the previous year, as against overall growth of 3.9% in the world.

India has the largest membership among all the countries in Region 10. Ending Dec. 2000, India's membership was 19,454 which was 11.4% more than the previous year. Japan is the next largest with membership of 10,867.

It was decided that the growth of membership should be at least sustained at 8.4% by encouraging student members to retain membership after graduation, opening new student branches, organising more student paper contests, upgrading Affiliate Members, introducing more awards to motivate student members, involving young engineers by formation of GOLD and other Affinity Groups etc.

Educational activities are to be increased by organising more Distinguished Lecturer Programs, Continuing Education Programs, Develop Pre- Education Programs on the pattern of British Annual Faraday Lecture.

In association with Delhi Section, organized one day tutorial by Prof. Gordon L Stuber on "Mobile Communications", at IIT Delhi.

Region 10 Newsletter in electronic form will start publication in May 2001 containing news of interest from Headquarters, Region and Councils/Sections besides articles of common interest.

Awards for OUTSTANDING SECTION and OUTSTANDING VOLUNTEER in Region 10 will continue. Delhi Section was given the Outstanding Section Award and Dr. R.G. Gupta of Delhi Section the Outstanding Volunteer Award for 1999.

New Sections may be opened in Srilanka, Vietnam and North Korea.

Three Indian Sections viz. Bangalore, Bombay and Delhi were given special flags to celebrate Silver Jubilee of their formation.

TENCON 2001 and TENCON 2002 are being held in Singapore (on cruise) and Beijing respectively.

Next Region 10 Committee Meeting will be held at Bangkok in April 2002

INDIAN DELEGATES AT REGION 10 MEETING AT SINGAPORE



L to R: Prof. R. Balasubramanian (Delhi), P.K. Srivastava (IC), J. Vasi (Mumbai), Arun Agrawal (Hyderabad), K.G. Satheeshkumar (Kerala), D.P. Kastha (Kharagpur), N. Chatterjee (Kolkata), H.E. Hole (UP), K. Rajagopalan (Bangalore), S.N. Khemka (Gujarat), R.K. Asthana (Delhi), H.P. Khincha (Region 10), S.A. Soundara Rajan (Chennai) and A. Anoop (GOLD Co-ordinator)

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Technology in brief

New Technologies swimming against slow down

Even as financial markets continue to nosedive, some emerging technologies such as MEMS and Dense Wavelength-Division Multiplexing(DWDM) optical components are still able to retain their sheen, attracting significant investment from financial community. Even though in existence over a decade, MEMS devices for applications ranging from sensing to optical networking have been really coming out only in the past 3 or 4 years. They find wide application in optical switching, in large terabit network switches and other equipment used in Metropolitan and Wide Area Networks.

The use of DWDM technology heralds the beginning of almost unlimited bandwidth over optical fibres, paving way for streaming videos directly from a

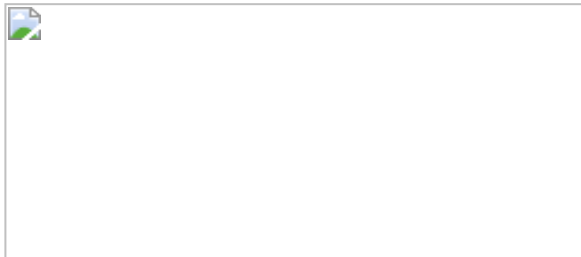
remote server or enjoying totally interactive, full-motion video conferencing.

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IEEE ACE 2001

27th Annual Convention and Exhibition of IEEE India Council Semiconductors, Power, Information Technology, Communications and Entertainment 1 - 3 November 2001. New Delhi About ACE 2001

The theme of ACE-2001 is Convergence in Semiconductors, Power, Information Technology, Communications and Entertainment (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. The exact impact of this Convergence upon humanity is a subject of intense debate and speculation. It is too early to predict the eventual form and shape for the new convergent society. The Delhi Section of IEEE is organizing ACE 2001, the prestigious Annual Convention and Exhibition of IEEE India Council at New Delhi with this theme. ACE-2001 shall provide a unique opportunity for scientists, researchers, engineers, technologists, practicing professionals, decision-makers, policy planners and end-users to discuss the challenges in these exciting fields, define product ideas and future directions to leverage the benefits of SPICE Convergence for the betterment and prosperity of humanity.



Scope of ACE 2001

ACE 2001 invites presentations, original research papers, tutorials, case studies, experience reports, product showcase and demonstrations invited talks in the broad areas (but not limited to) as listed below. It is intended that the above should highlight the convergence in following technologies

SEMICONDUCTORS

E-CAD, Tools for Microelectronics Design, Nano-Electronics, Advances in VLSI Design, Real Time Micro-controllers, GTOs, Light Triggered Thyristors, IGBT applications in Power Electronics.

POWER

Energy Trading and Management Systems and SCADA, Real Time Control of Power Plant and Systems, Energy metering, FACTS, HVDC, STATCOM, UPFC, Numerical Protection of Power Systems, Distribution Automation, Real Time Islanding and Load Shedding, Online Power Engineering Education, Online monitoring of Power Apparatus.

INFORMATION TECHNOLOGY

Embedded Systems Software, E-Commerce and its enablers, Data Mining, Neural Networks, Artificial Intelligence, Parallel Computing, Distributed and Fault Tolerant Computing, ERP, Modeling and Performance of Internet Traffic, Software Simulations, Streaming Applications, M-Commerce.

COMMUNICATIONS

Wireless and Personal Communications, Satellite Communications, Digital Signal Processing and its applications, Estimation and Detection, Broadband Networks, Traffic Engineering, QoS, Intelligent Networks, Voice/Multimedia over IP, 3G/4G, Optical Networks, ATM, Ad-hoc Networks, WAP, Bluetooth, Network Computing, Storage Area Networks.

ENTERTAINMENT

Multimedia, Convergence in Media and Content Delivery, Future Trends in Entertainment, Corporate Communications, Investigative Journalism, DTH, Cable TV, LMDS.

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Pre - conference Tutorials and Call for papers

Pre-conference tutorials associated with the theme of the Conference will be held during the day on November 1, 2001. These tutorials will be given by renowned experts in their fields and will be highly beneficial to all in enhancing their domain knowledge. Research Papers relating to the theme of ACE - 2001 are invited from industry, policy makers as well as members of the academic community.

Last date for the submission of proposal for Tutorials and Abstract of the Technical papers (not exceeding 1000 words) is 31st July 2001. These may be sent by post to: Dr. S. Mukhopadhyay, D11 62, Pandara Road, New Delhi - 110 003 or e-mailed in word/PDF format to subrata@ieee.org. Acceptance of these shall be notified by e-mail or by post.

Venue :

INDIA HABITAT CENTRE New Delhi - 110 003

Dead lines:

Proposal for Tutorials: 31 July 2001

Abstract of Technical Papers:

31 July 2001

Contact Persons:

Tutorials and Technical Papers:

Dr. S. Mukhopadhyay

D11 62, Pandara Road, New Delhi 110 003

subrata@ieee.org

Participation and details:

Mr. Harish Tejwani htejwani@ieee.org

Mr. P.K. Srivastava pk@ieee.org, Tel: 011-455 2570

Chief Co-ordinator

Prof. R. Balasubramanian Centre for Energy Studies,

IIT, Hauz Khas New Delhi - 110 016, balu@ieee.org

Tel: 011 - 6591246 (O), 011 - 6591954 (R) Fax: 011 - 6591954

URL: [http:// www.ewh.ieee.org/r10/delhi](http://www.ewh.ieee.org/r10/delhi)

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News - Scan

FORTUNE 500 Largest US Corporations

April 16, '01 issue of FORTUNE magazine has come out with the details of the Largest American Corporations of the year 2000. Some highlights:

Rank	Corporation	Revenue (Billion U.S. \$)	Profits (Billion U.S. \$)
1	Exxon Mobil	210	17
2	WAL-MART	193	6
3	General Motors	184	4.5
4	Ford Motor	180	3.5
7	ENRON	101	1
8	IBM	88	8
41	Intel	34	10.5
79	Microsoft	23	9.4
93	Coca-cola	20	2.1
94	Pepsico	20	2.2

Note: FORTUNE's Global 500 list incorporating non-US corporations also, will be published later.

Patents - Some eye openers

Patents are documents, issued by a government office, that describe an invention and create a legal situation in which the patented invention can normally be exploited (made, used, sold, imported) only by or with the authorization of the patentee. The protection of inventions is generally limited to 20 years from the date of filing of an application for grant of a patent.

The World Intellectual Property Organization has estimated that at the end of 1997, about 4.4 million patents were in force in the world. The high income countries filed 2.8 million patents. The middle income countries had applied for less than one million with low income accounting for around 0.67 million.

Japan filed the maximum patents - 4 lakhs. US - 2 lakhs , Germany - 1.75 and UK - 1.5. South Korea - 1.3 lakhs, twice that of China. India filed 10,000 patents in 1997.

Courtesy :World Development Indicators 2000

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Membership Matters

HK writes.... " IEEE Membership in India at its peak as of 31.03-2001"

Section	Higher Grade	Students	Total
Banglore	1418	605	2023
Calcutta	1207	464	1671
Delhi	1585	503	2088
Gujarat	336	338	674
Hyderabad	1545	1110	2655
Kerela	460	682	1142

Kharagpur	102	53	155
Madras	2180	4175	6355
Uttar Pradesh	573	303	876
All India Total	11720	11823	23453

-H. Kalyanasundaram

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IEEE DELHI SECTION

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JOTTINGS FROM SECRETARY

Dear Fellow Members,

I have recently taken over as Secretary/Treasurer, India Council and this is my first communication with members. Many of you may recall that I held this office earlier also for the years 1991, '92 & '93 as Secretary/Treasurer and for the years 1994 & '95 as Treasurer. Through this column, I wish to invite you to share various issues being faced by your Sections and try to find a common solution. If for certain issues, a common solution is not possible or even if there is a unique solution, let us at-least adopt a unified approach for tackling similar issues in other Sections. Similarly we can share success stories also. Please feel free to interact with Council Executive Committee Members & other Sections/Members.

All members are welcomed to send News items & even small technical write-ups for publication in Newsletter. In the present era of Information Technology, Computers etc., members are encouraged to write on the areas of Power Engineering, which by all means is an equally important subject.

Members are requested that whenever they are shifting, they may immediately notify address change to the Editor and to IEEE HQ directly instead of waiting for renewal on year-end. My interest in this request is to see that we keep in touch through this Newsletter.

Lastly, I invite suggestions, which may lead to more effective and fruitful co-ordination between Council & Sections.

With good wishes,

Rajendra K. Asthana,
Secretary/Treasurer - India Council
Delhi asthana@ieee.org (R)
vigrka@asiad.bhel.co.in (O)
26th April 2001

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IN LIGHTER VEIN

(Corollaries of Murphy's Law)

- Nothing is impossible for the man who doesn't have to do it himself.
- A computer program does what you tell it to do, not what you want it to do.
- If the builders built buildings the way programmers wrote programs, then the first woodpecker that came along would destroy civilization.
- A meeting is an event at which the minutes are kept and the hours are lost.

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Seven deadly sins

- Wealth without work
- Pleasure without conscience
- Knowledge without character
- Commerce (business) without morality (ethics)
- Science without humanity
- Religion without sacrifice
- Politics without principle

Editorial Board

Er. N. T. Nair Editor
 Prof. V. K. Damodaran Member
 Er. J. Muraleemohan Lal Member

"We, the members of the IEEE... do hereby ... agree to be honest and realistic in stating claims or estimates based on available data"

- IEEE Code of Ethics

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EDITOR'S DESK

"No ethic is as ethical as the work ethic"

In any management forum, when the topic of ethics comes up during discussions, Tatas are cited as an example of a business group, upholding high ethical values in their operations. Of late, Infosys, a pioneer among the new economy companies, is also being added to this rare and gifted band of companies. To achieve this unique distinction, the visionaries behind these enterprises should have taken utmost care to see that the operations are conducted in the most ethical way all these years, resisting all the temptations, to which most others have fallen easy preys. Some others, even though initially started off as highly principled enterprises, seem to have succumbed to the lures of unethical practices along the way, to become rich overnight or for other momentary gains.

In a survey conducted among several global giants, it was revealed that most of the companies going strong even after 100 years of existence, are ardent practitioners of business ethics. Mostly, their paths would not have been sprinkled with roses, but still they held on, braving all odds.

IEEE, always standing for ethical practices by engineers, may consider launching an initiative to enlarge the list of ethical companies in India. This could be in the

form of awareness programmes, workshops etc, taking cue from our code of ethics as well as from the practices of ethical enterprises. If we succeed in transforming at least some of our enterprises as practitioners of best practices, beneficial to the society, we can all be proud of the services IEEE could offer.

'Blessed are those, who have a dream or vision, for, those who have not, are dead while living'

Trivandrum
02 Mayl 2001

N. T. Nair
Trivandrum Editor
[email: del@vsnl.com](mailto:del@vsnl.com)



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e mail: haresh@ipdpg.gov.in

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Write to:

Haresh S. Bhatt
CNF/SIIPA,
Space Applications Centre,
Ahmedabad - 380 053.
INDIA
Ph. 91-79-6774770

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This page, developed and maintained by : S.Gopakumar
