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CHAIRMAN'S MESSAGE
December: The month of ACE

India Council's Annual Convention is being organized from Dec 15 to Dec 17 at Mumbai. The Bombay Section, one of our largest and the most dynamic sections, is the host. IEEE President Dr Bruce Eisenstein has accepted our invitation to visit India for the Convention. The ACE Program is being co-ordinated by a committee of distinguished members, which includes Mr. Raju Hira, Prof Siva Kumar, the Chairman of the Section Mr. R. Muralidharan, and Mr. Quraish Bakir, the General Chair for ACE - 2000. The program is expected to be quite interesting and relevant to the needs of a large number of members. I, therefore, want to invite our members from all over the country to derive maximum advantage from the excellent program by registering as delegates.

The detailed program and the form for registration can be located at
url = <http://www.ewh.ieee.org/r10/bombay>.

Other Conferences in December

HiPC-2000 and GRID-2000 (Dec 17 - Dec 20) in Bangalore, CIT-2000 (Dec 21-23) in Bhubaneswar, WDC-2000 (Dec 28-30) in Jadavpur are other conferences, which have been reported in the previous issues of the Bulletin. Besides the President will be visiting some of our other Sections, where technical programs as well as social get-togethers with the members have been planned.

IEEE Student members and GOLD members

India Council has made major efforts to see that IEEE becomes the platform of choice for student members and young professionals. In July 2000 was organized the first All India Student Congress at Chennai. In early 2001 is being organized the second Congress at Mumbai. VESIT Student Branch is hosting the Congress.

An Invitation

Active Student Branches, which would like to host such Congresses during the years 2002 and 2003, may convey their interest to me so that India Council may be able to select appropriate venues.

In Tamil Nadu one beneficial impact of the student Congress has been that as many as 15 institutions are working on establishing new Student Branches. The Chairman of the Madras Section has informed me that he is expecting 20 new Branches to be formed before 2001 is over. He is also expecting to revitalize the existing Student branches during the year. We expect that the Student Congresses will have a similar effect all over the country so that all the brilliant young persons, who are being trained to become professionals of tomorrow, will be able to enrol as IEEE student members.

Ahmedabad
01 November,
2000.

Dr. A. K. Aggarwal
Chairman



E-mail : aka19@hotmail.com

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DELHI SECTION OF IEEE

**IEEE INDIA COUNCIL AGM
VENUE: ACE-2000 venue**

(i.e. The Centrum, 1st Floor, World Trade Centre, Cuffe Parade, Mumbai 400 005)

DATE: Saturday, 16th December 2000

TIME: 5:30 pm

AGENDA :

1. Presentation of the Annual Report
2. IC Awards
3. Formation of Sub-Sections
4. Membership Development
5. Strengthening programs and program participation
6. Any other item with prior permission

All the members are cordially invited to the AGM.

Ashok R. Pandya
Secretary-Treasurer, India Council

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**RESULTS OF THE M.V.C. STUDENT PAPER
CONTEST 2000**

University/College

- First Prize : Nikhil Bhatia , Prashant Dixit, Mohit Sood
Univ of Roorkee
GAMBLE , Genetic Algorithm Based Machine Learning Expert
- Second Prize : Ashish Patel
Thadomal Sahnii Engg College
"Pseudo Remote Threads"
- Third Prize : Mr. Ritaban Das , Aruneema Das
Dept of Instrumentation
Jadavpur Engg College Karnaugh Map on Artificial Intelligence
(AI) approach using vision
- (b) R.Pradheep Balaji, Ajoy Rajan, M.S.Shankarshna
R.V.S College of Engg Tech
Dindigul -5
PC based Automation Recognition and Differential Counting of
cells using Fuzzy pattern recognition systems
- Special Award : JNT Univ of Hyderabad Optimization of Spreading Code and
Estimation of Channel Capacity on Multi Code CDMA Pan Link

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IC NOMINATIONS COMMITTEE

The Nominations Committee is to prepare the slate for the next year's Committee. I shall be happy to receive offers from members to donate their time for IEEE activities as IC Committee members and I shall convey these offers to the NC for consideration. Please send your offers along with details of your work in IEEE Sections, Chapters or student branches at your earliest, so that the NC is able to receive the information before it completes their work.

A. R. Pandya
Secretary-Treasurer, IEEE India Council
Kalyan Alaknanda Tapovan Society
V.K.V. Road, Nadiad 387 001

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IEEE Workshop on Electro Magnetic Compatibility of Electrical/Electronic Equipment at Delhi

(Sponsored by
IEEE PES-IAS DELHI CHAPTER, INDIA ED-MTT CHAPTER & DELHI SECTION)
India International Centre,
New Delhi January 22, 2001

BACKGROUND & PURPOSE

In order to reduce Electro-Magnetic Interference (EMI) of electrical / electronic equipment so that the disturbances generated do not adversely affect operation of other

equipment / systems, like, controls, communications, etc., Electro-Magnetic Compatibility (EMC) standards have been framed. On the other hand as complete mitigation is not possible, it calls for some level of immunity for every equipment to such externally generated disturbances and this is to be taken care of while designing. With a view to provide a good understanding of the problem, the EMC Standards and design methods to comply with the standards, a day-long workshop is being held by the IEEE PES-IAS Delhi Chapter, India ED-MTT Chapter and Delhi Section on January 22, 2001 in Delhi.

WHO SHOULD ATTEND

The workshop will provide an opportunity to learn more about the emission and immunity requirement of electrical / electronic equipment under a comprehensive EMC regulation environment, from low frequency harmonics and flicker to conducted EMI and radiated noises and several immunity standards, either generic or product specific.

- Designers and manufacturers of electrical / electronic equipment will be in a position to interact with the eminent Italian Engineers on Electro-Magnetic Compatibility requirement of these equipment.
- Workshop is limited to 50 registrants.

MAIN RESOURCE PERSON

Main resource person for the workshop is Dr. Paolo Tenti, Professor of Power Electronics, University of Padova, Italy. Dr Tenti is a Fellow of IEEE and a Distinguished Lecturer of Industry Applications Society (IAS) of IEEE. He is also the President of CREIVEN (Italian Research Consortium for Industrial Electronics).

- In the Sessions likely to join are the other delegates from Italy, such as, Mr. Giordano Malfermo, President and CEO of ELTRA Company (manufacturing encoders), President of the Electronic Section of the Industrial Association of Vicenza, Dr. Lamberto Brunelli, CEO of TDE-MACNO (manufacturer of servo-drives), representatives from the Industrial Association of Treviso, etc.

VENUE & DATE

Conference Room No. - I,
India International Centre (40 Max Mueller Marg, New Delhi - 110003) - January 22, 2001

WORKSHOP TEAM

Chairman : **Prof. R.Balasubramanian (IIT D)**
Vice Chairman : **Dr. K.S.Chari (MIT)**
Secretary : **Dr. S.Mukhopadhyay (CEA)**
Treasurer : **Mr. Pardeep Jindal (CEA)**

REGISTRATION

The registration for the workshop may be made by payment through Demand Draft (payable in Delhi / New Delhi) / Delhi local cheque in favour of "IEEE PES-IAS Delhi Chapter" along with the registration form as per the following rates up to January 1, 2001 (thereafter 20% extra):

General Delegate : Rs.1,000/-
Sponsoring Company (six delegates): Rs.5,000/-
Students / Faculty of Academic Institution : Rs.500/-
IEEE Members : FREE (but prior registration required on first-come-first-served basis)

For registration, enquiries, contact :

Dr. S. Mukhopadhyay
(Secretary, IEEE Workshop)
DII-62 Pandara Road, New Delhi - 110003
Tel : 3381502 ®, Telefax: 6170541 (O)
e-mail: subrata@ieee.org
For more details : visit website
www.ewh.ieee.org/r10/delhi/emcws.htm

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International computing contest (ICC-2001)

To be held on Jan 21, 2001 all over India and abroad.
Contact **Prof. Narayen Ugar**, Director, Nalini Foundation, PO Box 1,
Parvati, Pune 411009
Tel. (020) 4226530/4220248
Email : nugar@vsnl.com

BOMBAY SECTION AGM

BOMBAY SECTION which is hosting the ACE 2000, is organising its AGM on Friday,
22 Dec 2000 at 6.30PM
in the Royal Yacht Club, Colaba, Bombay.
Details are at site : www.ieee.org/bombay.

IEEE DELHI SECTION

(in association with its CAS-CS Societies & ComSoc Chapters) announces
Tutorial on
'MOBILE COMMUNICATIONS'
by
Professor GORDON L. STÜBER
(Wireless Systems Laboratory (WSL), School of Electrical and Computer
Engineering, Georgia Institute of Technology, Atlanta, GA 30332, USA)
at
EE Dept., IIT Delhi
on
December 14, 2000 (9-00 A.M. to 4-00 P.M.)

For registration contact Prof. S.S.Jamuar, EE Dept., IIT, Hauz Khas, New Delhi -
110 016 (ssjamuar@ieee.org). Number of participants is limited to 50. There is no
registration fee for IEEE Members, but they have to register early on first-come-
first-served basis. For others registration fee for the tutorial is Rs.500/- per
participant. Packed lunch and tea will be provided during the tutorial.

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SECOND WORKSHOP ON DISTRIBUTED COMPUTING

December 28-30, 2000

Organized By Department of Computer Science & Engineering

Jadavpur University

In Cooperation with IEEE,

India Council IEEE, Calcutta Section IFIP Technical Committee 6 (TC6) Computer Chapter,

IEEE India Council Computer Chapter,

IEEE C'alcutta Section

Venue

Department of Computer Science & Engineering

Jadavpur University Calcutta 700 032 INDIA

Email : s.dutta@ieee.org

URL : <http://www.allindia.com/wdc2000>

Mirror : <http://www.buyya.com/wdc2000>

Mirror : <http://www.csejuds.org/wdc2000>

Tele Fax : +91 33 413-1766

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WHAT TO EXPECT AT ACE 2000 IN MUMBAI

Saturday 16th December 2000

09:00	Registration	
09:30	Keynote Address	Dr.Mudur, NCST Bombay
10:15	Tea/Coffee	
10:30	Paper Session I A (Parallel with 1 B)Towards Dependable Software	R. Narayanan, TCS
11:00	Measuring and Managing Software Reliability	Sudhir H. Thakre, IIT Kharagpur
11:30	A Health Care System	S. C. Gupta & Hridesh Rajan, BHU & Lucent Technologies
12:00	Development Trends in Virtual and Intelligent Instrumentation	M. S. Bhatia & V. K. Madan, BARC
12:30	Machine Learning and Intelligent Algorithms in Building Automation Systems	H. Warudkar, TCS & V. Garg, IIIT
Paper Session I B (Parallel with 1 A)		
10:30	A New Methodology of FPGA Implementation of MPEG Audio Parser	S.Ragunath, S. Kumar, L. Sateesh, CEERI
11:00	An Efficient Implementation of MPEG II	R.Kumar, S. M. Thomas, V. Bhatt, Sasken Bangalore
11:30	MVision: A software package for Content-based Indexing and Retrieval for MPEG Video IIT Kanpur.	Sumana Gupta & Yusuf Jamal

12:00	Multiple Video Conferencing over the Next Generation Gigabit Network	A. K. Tandon & Aakash Sinha, Delhi CoE
12:30	Petaflop Computing	P. S. Dhekne, BARC
13:00	Lunch	
14:00	Invited Talk : Software Engineering Code of Ethics	Dr. S. R. Ganesh & Anthony Lobo, TCS

Paper Session II (Parallel with Industry Showcase)

15:00	M V Chauhan Student Paper Winner Genetic Algorithm Based Machine Learning Expert	N. Bhatia, P. Dixit, M. Sood
15:30	Bluetooth: Tomorrow's Technology & Rohan Bhindwale, GSITS Indore	Anurag Hardiya, Atul Bhootada
16:00	Next Generation Network (Using Jini Connection Technology)	Jinesh Varia, PVPP CoE
16:30	Data Mining: An Evolving Technology	Priya Mhatre, Fr. Agnel CoE & Pinky Panjwani, Thadomal Shahani CoE

Industry Showcase (Parallel with Paper Session II)

15:00	Industry Showcase I	TCS
16:30	Industry Showcase II	Thirdware
17:30 - 18:30	AGM of IEEE India Council	
19:30 - 22:30	Banquet At Presidency Lounge, Radio Club	

Sunday 17th December 2000

09:30	Invited Talk: Communication Technology - Moving into the IT Era	Dr. M. V. Pitke, FIEEE
10:15	Tea/Coffee Break	

Paper Session III:

10:30	An Efficient Algorithm for Generating Nearly Safe Primes R. Venkatesh, Tata Infotech	
11:00	Cyrtographic Random Number Generation N. Usha Rani, Tata Infotech	
11:30	Rijndael: A Proposed Advanced Encryption Standard	R. Venkatesh, Tata Infotech
11:00	Cyrtographic Random Number Generation N. Usha Rani, Tata Infotech	
11:30	Rijndael: A Proposed Advanced Encryption Standard	R. Venkatesh, Tata Infotech
12:00	Evolution of Electronic Cash in Future Economy	Sameer Sharma, TCS
	Real Time Checkout System for	S. Gopakumar, S.

12:30	Launch Vehicle	Hemachandran, VSSC, ISRO
13:00	Lunch	
Paper Session IV:		
14:00	A review of Speech Input/ Output Systems in Indian Languages	Aniruddha Sen & K. Samudravijaya, TIFR
14:30	Integrated Access for Optical NetworksS. R. Pillai, OSS Corpn	A. Jagatia, R. Muralidharan,
15:00	Web Based Metacomputing	A. K. Aggarwal, S. C. Patodi, P. Patel, H. S. Bhatt
15:30	Tea/Coffee Break	
16:00	Keynote Address: Software Challenges Ahead for Indian Industry	Mr. S. Ramadorai, CEO, TCS
17:00	IEEE Millenium Medals and IC Best Volunteer Award Distribution	Dr. Bruce Eisenstein, President, IEEE
17:30-18:30	Valedictory Address	Dr. Bruce Eisenstein, President, IEEE

15-12-2000 TUTORIALS

Friday 15th December 2000

09:00	Registration	
09:30-13:00	Tutorial I: Software Process Improvement	Dr. Gargi Keeni, TCS & Mr. Raju Datta, TCS
09:30- 13:00pm	Tutorial II: Digital Signal Processing	Prof. U. B. Desai, Prof. Vikram Gadre, IIT Bombay
14:00 pm - 17:30 pm	Tutorial III: Mobile Computing: Anyone, Anywhere, Anytime	Mr. Babla Sharan, TCS
11:15 -11:30	Tea/Coffee Break	
13:00 -14:00	Lunch	
15:45 pm -16:00 pm	Tea/Coffee	

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ELECTION RESULTS

Listed below are some of the results of the 2000 IEEE annual election, as certified by the IEEE Tellers Committee on 9 November 2000. Please note that the results of this election are unofficial until the IEEE Board of Directors accepts the Report of the IEEE Tellers Committee at its meeting of 3 December 2000. In 2000, there were no

Constitutional Amendments. The number of ballots mailed was 248,196. The number of valid ballots returned was 49,688. The rate of return was 20.02 percent.

Office of President-Elect, 2001

Raymond D. Findlay

Office of Region Delegate-Elect/Director-Elect, 2001-2002

Region 10

Jung U. Seo

IEEE Standards Association President-Elect, 2001

Ben C. Johnson

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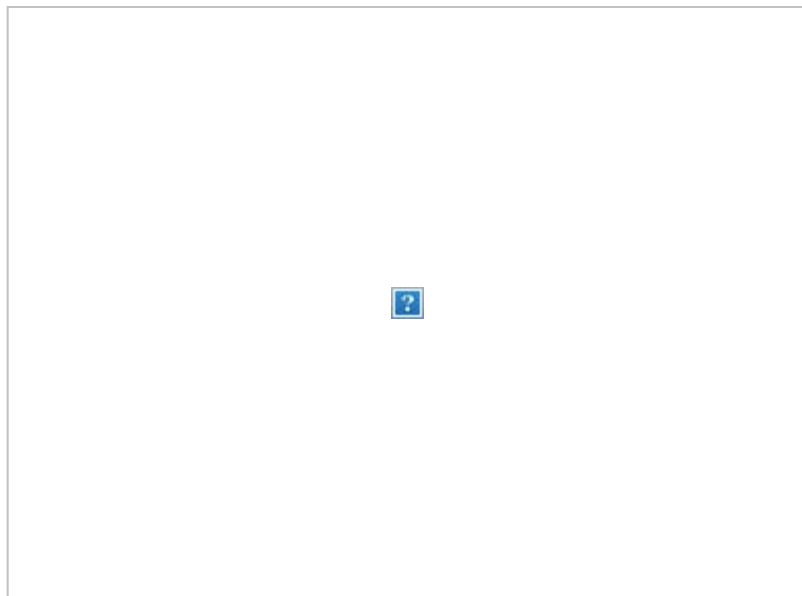
RADAR AWARD

**The Fred Nathanson
Memorial Radar Award**

By the IEEE/AESS Radar Systems Panel
To the Young Engineer of the Year

General

This annual award, in honor of the late Fred Nathanson, is sponsored by the IEEE Radar Systems Panel of the Aerospace and Electronic Systems Society. The purpose of this award is to grant international recognition for outstanding contributions to the radar art by young IEEE/AESS members. The goals of the Radar Systems Panel in granting this award are to encourage individual effort and to foster increased participation by developing radar engineers. This IEEE award consists of a commemorative recognition plaque and a \$1000 honorarium.



Eligibility

An eligible candidate must be no more than 40 years of age as of December 31, 2000. She/he must also be a member at any grade level of the Aerospace and Electronic Systems Society of the IEEE. The candidate must have demonstrated outstanding contributions to the art of radar, as documented by the nominator(s).

Contact : Mail or fax (818) 901-2435 all nomination information to :

John M. Milan (818) 901-2390,
john.milan@itt.com Chairman,
Awards Committee IEEE/AESS Radar Systems Panel
ITT Gilfillan
P.O. Box 7713 7821 Orion Avenue
Van Nuys, 91409

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REPORTS FROM CHENNAI

A special lecture on "DOT.NET THE NEXT GENERATION INTER NET" was arranged on 07.11.2000 at Hotel President and 150 Senior Members attended the lecture. The Millenium Awards sent by Head Quarters for few IEEE Members for their outstanding contributions in their respective areas of activity were presented to the awardees by Senior IEEE Members present on the occasion.

Another lecture on "INTERNET SECURITY" was given at I.E.T.E. Hall by Prof G. Sivakumar of I.I.T. Mumbai on 11.11.2000.

A number of enquiries followed after the Student Congress 2000 conducted from 7th to 9th July 2000 and following new student branches have been formed since then

1. Sri Krishna College of Eng & Tech, Kuniyamuthur, Coimbatore.
2. Eswari Eng College for Women, Chennai.
3. Arunai Eng College, Tiruvannamalai.
4. Dr Sivanthi Aditanar College of Eng, Trichendur.
5. Balaji College of Eng Deemed University, Kanchipuram.
6. C Abdul Hakeem College of Eng & Tech, Melvisharam.

Many more College are being processed and efforts are being taken to improve the Membership strength and activities of student branches.

Er S. A. Soundara Rajan
Chairman, IEEE, Madras Section.

Er. S.A. Soundara Rajan Chairman, Madras Section Presenting the Milenim Medal to Shri H. Kalyana Sundaram for outstanding contribution in the field

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OPTICAL NETWORKS, WDM...

The Computer and Communications Chapters of IEEE Bombay Section are together planning to conduct a One day Tutorial on "Optical Networks - WDM routed networks and role of wavelength conversion" by Prof. **Arun K Somani**, Fellow IEEE Iowa State University, USA on Wednesday, 10 January 2001 at IIT Computer science Lecture Theatre, IIT, Powai, Bombay
For details contact r.muralidharan@ieee.org or visit section site : www.ieee.org/bombay

R. Muralidharan

Flat # D-503, Marol Hill View Apts., Marol Military Road,
Andheri(E), Mumbai, 400 059, INDIA.
Tel : +91 22 850 0595

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EDITORIAL

End of a Millennium, a Century and an active year with IEEE

This is the last issue of IEEE India Bulletin that will reach the hands of our readers before the end of 2000. The end of the year 2000, which in fact is also the end of a remarkable century in which IEEE and the technologies which it represents had their say in almost all matters. It also graduates the turn over of the second millennium which saw immense social progress with the use of ever growing science and technology. In that sense E and E and the IEEE in its present form and in its original forms of its predecessor constituents have contributed in a significant manner, for which all volunteers and members of IEEE can rightly be proud of their contributions, collectively and individually.

In India, we have this unique opportunity of a momentous meeting at Mumbai in the form of ACE 2000 from 15 to 17 of this month. As the detailed programme published elsewhere in this issue indicates, it is worth attending. Let us look beyond 2000 and resolve as to what IEEE can contribute at the beginning of the third millennium, for continuing the social development, more so in improving the quality of life , in providing sophisticated forms of energy that one third of the global population - 2 billion people - now lack, as also better and better means of communication for their sustained growth and leisure.

So, let us meet at Mumbai during the middle of this month

Trivandrum
01 Nov. 2000

V. K. Damodaran
Editor
E-mail:
vkd@ieee.org



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WISE AND OTHERWISE

"Learn from the mistakes of others, you can never live long enough to make them all yourself".
-John Luther

"The best way to escape from a problem is to solve it."
-Alan Saporta

"In a democracy, agreement is not essential; participation is."
-Gene Browne in Connecticut, News Times

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Your feedback is important!

e mail: haresh@ipdpg.gov.in

[Click here to send your feedback, comments, remarks and suggestions.](#)

Write to:

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Ph. 91-79-6774770

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This electronic version of the IEEE India Bulletin is an adaptation of the official, printed newsletter. This adaptation has required some minor modifications and restructuring of the original text, to suit its viewing as a webpage.

Thank you for visiting this webpage.

Administrivia:

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