

IEEE India Bulletin Vol. 9 No. 1 January 1999
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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.

This issue of the Bulletin is sponsored by the AES-COM-LEO Chapter of IEEE

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Chairman's Message

Dear Members,

I had the opportunity to attend both Major Events at Ahmedabad and Delhi organised by IEEE in India in December 98. Both of these had excellent programme content and very good participation. My compliments to all the volunteers , who took all the pains to make the events memorable and fruitful. IEEE in India is really making impact! Let me thank the IEEE Headquarters for improving despatch of IEEE Spectrum and other publications. My sincere thanks to Region 10, particularly to our Director Mr. H.L. Bajaj, who supported me and my team during the last 2 years. India Council has just got the SSVR support for HOME PAGES efforts and this facility will further enhance our Communications. Special Thanks to Partha, our Page Master and Prof. Damodaran, our Editor for keeping our flag flying high. I want to thank all the India Council Committee members and Section/Chapter Chairpersons for extending me full support during my tenure. I am sure all the support will continue to be extended to Prof. Aggarwal's team. Thank you all, our dear members.

Wishing you and your families A VERY HAPPY NEW YEAR -1999!

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Hyderabad Dr. R K Bagga
1st Jan. 1999 Imm. Past Chairman



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ACCOLADES FOR Dr. R G GUPTA

*Dr. Ram Gopal Gupta (center) after receiving the
Award at Sydney*

Dr. Ram Gopal Gupta's valued services and contributions to the IEEE as Section Chairman during 1996-97 has been recognised by the AESS President of IEEE. Dr. Gupta is also the recipient of a Certificate of Appreciation for contributions to making an outstanding Digital Avionics Conference (17 th DASC Conference in Seattle, Washington) from 31 October to 6 November 1998. Further, the India Chapter of the Aerospace and Electronic Systems Communications and Lasers and Electro-

Optics (AES/COM/LEO) Society under the dynamic Chairmanship of Dr. R G Gupta has been adjudged by the IEEE Communications Society as the 1998 Chapter of the Year. Dr. Gupta on invitation attended the Special Awards Luncheon at Globecom 98 on 9 November 1998 at the Star City Complex in Sydney, Australia. The Award was presented by ComSoc President Mr. Tom Plevyak.



The IEEE India Bulletin on behalf of all the corporate members of IEEE India Council congratulate Dr. Gupta on his triple achievements. Keep it

up!

- Editor

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IEEE LAMME MEDAL 1998

As reported in the STOP PRESS column last month, B Jayant Baliga, USA is chosen to receive the prestigious IEEE Lamme Medal for 1998 for his meritorious achievement in the development of many power transistor devices.

IEEE India Council sends bouquets of appreciation to Dr. Baliga.

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TECHNOLOGY CORNER

Knowledge

Knowledge is information combined with experience, context, interpretation, and reflection. It is a high value form of information that is ready to apply to decisions and actions.

- Ms. Cinda Voegtli, President, IEEE EMS

Engineer

Today I am more than ever frightened. I wish it would dawn upon engineers that, in order to be an engineer, it is not enough to be an engineer.

- Jose Orteg y Gasset

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SWOT Analysis of Renewable Energy Sources

Strengths

- * Unlimited/Perennial potential
- * Environmentally benign
- * Favoured option for sustainable development ensuring equitable distribution of benefits
- * Naturally recycled resource base
- * FE plants and devices are modular in size
- * Decentralised energy option

Weaknesses

- * Energy availability is seasonal and intermittent
- * RE sources are usually of low density, requiring large areas of space
- * Imposes a greater demand on labour
- * Financial viability unfavourable
- * Costlier and more capital intensive than conventional energy systems
- * Capacity utilisation lower, because of low density and inconsistency of supply

Opportunities

- * Environment driven awareness
- * Policy initiatives at global and national levels
- * Short gestation schemes; quicker project implementation
- * Easy to install stand alone systems
- * Opportunities for rural electrification
- * Generates rural employment
- * In most cases, fuel transportation costs avoided
- * Cost of other inputs is also considerably less
- * Social benefits
- * Can be matched with the scale of the need

Threats

- * Closely linked with environmental concerns
- * If social and environmental costs are ignored, RET cannot compete with conventional energy
- * R & D efforts inadequate

* Incentive/subsidy driven momentum is temporary.

-- Prof. R Natarajan, Director, IIT, Madras

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TENCON' 98

TENCON'98, the IEEE Region 10 International Conference on Global Connectivity in Energy, Computer, Communication and Control was held in Hotel Taj Palace, New Delhi, India from December 17 to 19, 1998. The IEEE Delhi Section in association with Region 10 and India Council organized this event. On the first day there were four full-day tutorials covering the areas such as Wireless Multimedia Systems, Applications of Antenna Arrays to Mobile Communications, Robotics Intelligence in Practice and Digital Simulation of Power System. A good number of participants from academic institutions and industries had a chance to listen to the experts of the respective fields.

On the second day prior to the starting of technical sessions, the renowned Scientist Prof. Yashpal formally inaugurated the Conference. In the presence of General Chair and Technical Committee Chair of TENCON'98, Delhi Section and India Council Chairs, Immediate-Past President of IEEE Prof. Charles Alexander and a large audience, Prof. Yashpal called upon Scientists and Engineers to work for the mankind in the new environment to reach every nook and corner and pass on the benefits of science to all as appropriate to the local needs. The day had as many as ten technical sessions in various areas of Computer, Information, Control, Communication and Energy disciplines. This followed a special session on Acharya (Prof.) J.C.Bose where three speakers discussed about his works in the context of nineteenth century scientific developments. There was also an arrangement for the display of apparatus used by Bose for his pioneering works in the area of 'Millimeter Waves'. In the late hours of the day, there were industry presentations for the benefit of those attending the Conference.

The third and the last day started with a plenary session in which Prof. Vijay K. Bhargava of the University of Victoria, Canada delivered a talk on 'Recent Advances in Cellular Wireless Communications' and Dr. Kumar Krishen of NASA Johnson Space Center, USA on 'Research and Technology Needs for Human Exploration and Development of Space'. Following this, there were eleven more technical sessions in the various disciplines associated with the Conference theme alongwith a parallel poster session. In most of the sessions there were invited speakers to present papers on the state-of-the-art in the respective areas. The day's activity ended with an industry presentation in the Communications discipline.

On the whole, TENCON'98 which was sponsored by power industries like BHEL, NHPC, NTPC, POWERGRID, Mitsui Babcock and software and communications industries like NETWORK PROGRAMS, HUGHES, C-DOT, SIEMENS, KLG, Sagrik was successful in delivering its message to the world in the present context about the open market, towards border less world and overcoming the difficulty of distance of separation in transactions. Over two hundred persons attended the three-day Conference with about a quarter from abroad. There were altogether 171 papers for the various sessions of the Conference, 63 being from outside India. TENCON, being an annual feature, Scientists and Engineers in the broad discipline of Electrical Engineering would definitely be waiting for the next Conference TENCON'99, as scheduled to be held in Cheju, Korea from September 15 to 17, 1999 with the theme 'Multimedia Technology for Asia-Pacific Information Infrastructure'

December 22, 1998

Dr. S.Mukhopadhyay

Chairman,

IEEE Delhi Section (Host of TENCON'98)

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IEEE INDIA COUNCIL

Minutes of meeting held on 11.12.1998

The Fifth IEEE India Council Committee meeting was held at Ahmedabad the venue of ACE - 98 on 11th December 1998 at 1400 hours. Apart from, Chairman, Executive Vice Chairman, Chairman, Kerala Section; Mr. Hasmukh Shah, newly nominated Chairman of PES Chapter also participated. Chairman briefed the members on various activities of IEEE being held in the country including TENCON 98 and ERP Conference at Hyderabad in January 1999. He specially highlighted the growth in membership during this year which has crossed 9000 mark with over 4000 student grade members. He also appreciated the effort of Page Master, Dr Parthasarathy and Newsletter Editor, Prof. Damodaran in providing the India Council effective means of communication.

Review of the Minutes of the Fourth Committee Meeting

The minutes of IC Council Committee held on 19th September, 1998 at Delhi were reviewed and the following observations/comments made :

MVCSPC In spite of repeated efforts to conduct yearly student paper contest (MVCSPC - 98) Prof. K. Uday Kumar was not successful in conduct of the same due to poor response of the papers. As per his report, only four papers were received for the student paper contest. The Committee observed that sufficient publicity was lacking on the part of student activity member which could have resulted in non-conduct of this important student activity.2. The finalised account of ACE 97 Conference conducted by Hyderabad Section has been received and the surplus credited to India Council Account. There was an extra payment to be made for the travel of Mr. N. Vittal for inaugurating the Conference to the tune of Rs. 17,000/- (Rupees Seventeen Thousand only) which has been paid.

ACE - 98 :

Chairman thanked the members of IEEE Gujarat Section for their tremendous effort in organising two International Conferences simultaneously in the form of ACE - 98. There were 6 excellent tutorials conducted by International experts from USA, Australia and India. Both the Conferences CNIW - 98 and CEEPCI - 98 were excellently planned with high quality programme content and publications. Committee appreciated the efforts made by Prof. A K Aggarwal in organising these events for the first time at Ahmedabad.

TEN CON - 98

TEN CON 98 Conference arrangements at Delhi have been finalised and the Committee desired participation of India Council Chairman in the inaugural session as the Conference has been sponsored by the Council, being a major Region 10 event in India. Travel support, if required, may be provided.

India Council Bye-Laws :

The report of the Bye Law Committee along with the detailed comments received from three Sections was presented to India Council Committee. It was decided to give some more time to other Sections to forward their views/comments for revising India Council Bye Laws. It was suggested that at least 6 Sections must give their comments before putting them up to the Annual General Body meeting for their approval.

Chapters' Presentation

Dr. A. K. Aggarwal informed the Committee that all the six Chapters affiliated to India Council have been activated and their reports received. Report from Mr. Parikh, Chairman of CPMT Chapter was presented to the Committee. Mr. Hasmukh Shah, Chairman of PES Chapter briefed the members on smooth conduct of Power Quality Conference in Mumbai in November 1998. He also briefed on the forthcoming events planned for the next year. Chairman thanked Dr. Aggarwal and all Chapter Chairmen for their efforts in revitalising Chapter activities.

Nomination Committee Report

Since no nomination by petition was received by the Secretary, IEEE India Council, the office bearers were declared elected for 1999 (list published in December '98 issue of Bulletin- Ed.) with Dr. Akshai K Aggarwal as Chairman, Shri. Pramod K Srivastava as Exec. Vice Chairman and Shri. Ashok K Pandya as Secretary/Treasurer

It was recommended that existing Page Master, Dr S Parthasarathy be a permanent Invitee to IEEE India Council Committee.

Secretary/Treasurer's Report

The report submitted by Secretary/Treasurer, Mr. N Vyaghreswara Rao regarding the activities for 1998 and financial position as on 10th December, 1998 was reviewed and accepted for presentation to the Annual General Body meeting scheduled on 11th December, 1998 at 1800 hours.

Any other Point

1. Mr. S. Gopakumar, Chairman, IEEE, Kerala Section briefed the Committee on ACE - 99 to be conducted by Kerala Section at Trivandrum in December 1999 with the theme "E - Commerce 2000" .
2. Mr. Hrushikesh Acharya, Senior Member from Bhubaneswar's suggestion received by post for allotting a special space in IEEE India Bulletin covering the important seminar/conferences recommendations for information of general members was accepted for implementation.

Chairman thanked all the India Council Members and Gujarat Section for assisting in the smooth conduct of the meeting.

N. Vyaghreswara Rao

Secretary, IEEE India Council

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WISE AND OTHERWISE

Experience is the stuff that when you finally get enough of, you're too old to qualify for the job.

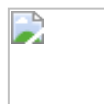
-Robert Orben

Youth looks for greener pastures; middle age is when we can hardly mow the one we've got.

-Anonymous

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ACE - 99



IEEE KERALA SECTION

Welcomes you to

ACE - 99

At Trivandrum

December 1999

Theme:

e-Commerce for 2000 and beyond

for more details contact:

Chairman, IEEE Kerala Section

Harmonieeee, Cherian SquareAmbujavilasom Road

Trivandrum - 695 001

Phone : (0471) 47 3515

E-mail: ieeek@md3.vsnl.net.in

Homepage: <http://www.ewh.ieee.org/r10/kerala>

See you at Trivandrum in

December 1999

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PERSONAL WIRELESS COMMUNICATIONS (ICPWC'99)

1999 IEEE INTERNATIONAL CONFERENCE

At Jaipur, India, on

PERSONAL WIRELESS COMMUNICATIONS (ICPWC'99)

This major event to be held in Jaipur is sponsored by
IEEE AES/COM/LEOS
India Council
University of Victoria, Victoria, BC CANADA.

Co-operating institutions are:

IEEE Region 10
IEEE India Council
IETE (India)
IEEE Communications Society
Dept. of Electronics, Govt. of India
Malviya Regional Engineering College
Delft University of Technology

There are three Conference Plenary Talks by
Nitin J Shah, Lucent Technologies, USA;
Tero Ojanpera, Nokia Telecommunications, Japan,

the third is yet to be announced.

Tutorials:

Multimedia Wireless Systems by Vijay Bhargava of University of Victoria, Canada.

GSM Evolution : Toward the edge by Ramjee Prasad of IRCTR-CEWPC, Delft, the Netherlands.

Applications of CDMA to Wireless Communications by Vijay Garg of Lucent Technologies, USA.

Internet and Data Services on Wireless Local Loop by A Chockalingam of Qualcomm, San Diego, USA.

There will also be a panel discussion on Advances in Wireless Local Loop Technology. Participating experts: Eric Barnhart, Georgia Tech Research Instt, Atlanta, USA (Chair), Bhaskar Ramamurthi, IIT, Madras and Asok Seth, Qualcomm (India).

Technical Sessions are all fully planned.

Delegates from India, please use the following format for Registration:

(Type or Write legibly in block letters)

Check one: Dr Mr Mrs Ms

First (given) name:

Last (family/surname) Name:

Organisation name:

Position/Title:

Address:

City:

Province/State:

Country:

Postal Code:

Phone:

Fax:

Email:

I want to attend tutorials by:

Bhargava Prasad Garg Chockalingam

Total Enclosed

(payable to IEEE ICPWC '99):

Payment Method: cheque draft

(payable at New Delhi)

[Registration includes reception, 3 lunches, 1 banquet and 1 copy of conference proceedings]

Registration fees in Rupees (after Dec 15,1998)

Category

Conf. Tut. Both*

IEEE Member (give Membership number) 5250 1875 9000

Non member	6750 2250 11250
Students	2625 900 4500

* includes all tutorials.

Mail to:

IEEE ICPWC `99

C/O Dr. Ram Gopal Gupta
Dept. of Electronics, Govt. of India 6 CGO Complex, Lodhi Road
New Delhi 110 003
Tel: 011-436-3095 Fax; 011-436-3079
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ENTERPRISE RESOURCE PLANNING

**Have you registered for the
National Conference at Hyderabad ?
(from 22 to 23 January 1999)**

Organised by: Information Technology Division, Institute of Public Enterprise

Collaborator: Institution of Engineers (India)

Co-operation from: IEEE India Council

Venue: Hotel Viceroy, Tank Bund Road, Hyderabad

There are two pre-conference tutorials

1. Enterprise Resource Planning
by Prof.S.Sadagopan of IIM, Bangalore
2. Data Warehousing & Data Mining
by Prof. Chandrasekhar of FORE School of Management, New Delhi

Registration Fee:

Delegate Rs 4000
Student Rs. 1200
Tutorial Rs. 2000

For Cheques add Rs 25 as bank charges.

DD/Cheque in favour of "Institute of Public Enterprise" payable at Hyderabad.

Contact early:

Prof. M L Saikumar
Organising Secretary
Information Technology Division
Institute of Enterprise

OU Campus
Hyderabad 500 007

Tel: 040-701 8145 -701 8937 Fax: -701 8938

Email: sk@ipeou.globemail1.com

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Editorial

IEEE in India over the years have toughened its muscles and has expressed its strengths through endless succession of technical activities in the country. If anybody had predicted, as I did, that after the mega events as part of ACE 98 in Ahmedabad under the no-nonsense captain that is Prof. Aggarwal, there will be a lull in activities, they are proved wrong. The IEEE India Council subjects had TENCON 98 in Delhi, a no less tiresome exercise for all who had to make it happen. In this issue, I am covering a full page invitation for yet another mega event at Jaipur - the ICPWC '99 - so soon after all these nerve raking busybee rounds. Covered in these pages are also an announcement of a national Conference on ERP at Hyderabad to go on stream late this month itself. ACE 99, the star event of this year is getting shaped by the busy workers of the Kerala Section at Thiruvananthapuram and I am glad to publish its announcement prepared by Mr. S. Gopakumar in this issue of the bulletin itself. So, with a continuum of technical activities all through 1999, let us cap it with ACE 99 at Trivandrum, so that we are really ready to enter the next millennium. A small thing as a reminder: If you were too busy and had forgotten to send your `check' to IEEE HQ, please hurry up. If any of your friends who are members of IEEE are not getting the bulletin regularly, please remind me in time. I am sorry, due to failure of communication, I could not carry a message from our new Chairman Prof. Agga in this issue. On behalf of the readers of the IEEE bulletin, let me express my sincere thanks to Dr. R.K. Bagga and Mr. N.V Rao, Chairman and Secretary respectively of IEEE India Council who had given me strength and lot of support for running the bulletin uninterruptedly for the past two years.

Welcome to 1999 with hands full of reports on activities under your Sections and Chapters!
A very happy new year to all our readers!!

Trivandrum Prof. V K Damodaran
05 Jan. 1999 Editor



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Your feedback is important !

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