

IEEE India Bulletin Vol. 9 No. 7 July 1999

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 DELHI Section of IEEE

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CHAIRMAN'S MESSAGE

Tomorrow's world and our strength

The joint efforts of Great Universities, large Multi National Corporations and a large number of small technology savvy companies are creating tomorrow's world. What is more, these in turn are hosted by a network of major cities. Most of these cities are of the developed world, with co-option of some cities located in the other parts of the world.

What do these cities possess in terms of human capital and infrastructure? These have highly reputed University Departments in Information and Communication engineering. Besides they have excellent business & professional services and financial services. Health services are available to not only the very rich, but even to most of the city residents. The city's environment is usually clean and green. And of course they have a large pool of highly skilled and well-educated work force in all the areas of interest to its businesses.

Cities in Southern China are investing large sums of money to create and improve their infrastructure of water and sewage systems, arterial roads, highways and airports, internal transport systems and social housing. This is because each of them wants to be co-opted more fully into the network.

Meanwhile 48 out of 52 states of USA increased their annual expenditure on Universities. In 1999, Toronto University became the first Canadian University to have a corpus of \$1.0 billion, contributed by private donations.

Whereas the developed world is engaged in sharpening its tools for a brighter future, our policy makers look at the future through the rear-view mirror. Thus I know of a state government in India, which like many others, has high ambitions. It declares every month at lavish press-meets, some new IT plans. However on the ground even the University Department, with the highest reputation in IT field has not been able to get any support from it.

After going through two years of study in Computer Science, most of the students in the developed world are able to get summer jobs in the IT departments of the industry. On the other hand in some of the states of India, a new pernicious business practice of charging the students for their final semester project has started.

Our strength is in our great human capital. However even with this endowment, the Prime Minister's dreams of India becoming a Super Power, can be realized only when all the macro and

micro policies are tuned in the proper direction and when the government, the society and the business pull together.

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Ahmedabad Dr. A. K. Aggarwal
1st July 1999 Chairman



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PAGEMASTER CALLING !

This July issue of the IC Bulletin is being put on the net in August. The delay is partly due to my frequent travels and also partly due to an experiment I wanted to conduct. I wanted to know if anybody misses this bulletin. My fears were correct -- not one of you seems to have missed this issue. I received not a single complaint or query from any one of you. There are two observations one can draw from this: 1. either you are all too polite and sympathetic, or 2. you really do not miss the Bulletin if it does not appear. In both cases, there is cause for concern. The first observation leads to complacency and indifference. The second observation does not reflect too well on the professional health of our colleagues. You can draw your inferences. And, if any one of you has any suggestions on how things can be improved, I would be very happy to hear from you.

S. Parthasarathy
Pagemaster -- India Council

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THINK IT OVER

Fostering growth is not easy, it needs competence, caring, objectivity, capacity to let go, and a whole list of superlative qualities in the losses.

- Anonymous

In prosperity, our friends know us; In adversity, we know our friends.

- John Churton Collins

The difference between a hero and a coward is one step sideways

- Gene Hackman

To be an Engineer is to be a Partner in the Motivation of our Age, to be an Active Factor in what, Today, makes the World go round.

- M.G. Say Emeritus Professor, Hewitt Watt Varsity, Edin Burgh

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TECHNOLOGY CORNER

Dispersed Generation

Impact on distribution networks India is currently on the road to increased utilisation of dispersed generation. What are the possible impacts on the networks? An article on the above topic in IEEE Computer Applications in Power, Vol.12, No.2, April 1999 highlights important impacts like:

- Dispersed generation increases the complexity of controlling, protecting and maintaining the distribution systems
- For each connection of dispersed generation, protection selectivity must be checked and adjusted so that the generator does not cause disturbances.
- Determining the best location may be difficult, if there are several generators on the same feeder and if the network topology often changes.

Gone with the Wind ?

According to the International Energy Agency, India is among the five countries in the world accounting for more than 80% of the global wind energy capacity. In total installed wind electric capacity, India ranks fourth after Germany, Denmark and United States with 940 MW. Out of this 725 MW is in Tamil Nadu. In 1992-93 wind power development came with a bang with helpful policy initiatives from GOI and the investment in this area in 1996-97 of Rs. 507.5 crores nose dived to Rs. 49.3 crores in 1998-99. What went wrong? Land acquisition and associated problems in many states are said to be the main reason. There are others as well. India has over 20,000 MW of wind potential, spread over in 10 states. We have hardly tapped 5% of it. (adapted from Down to Earth, 30 June 1999)

Plastics too saves the Environment !!!

Difficult to believe? But, you should. Because, it is estimated that 6000 tonnes of plastic furniture can substitute for 14,000 cubic metres of wood, which could have been obtained only from 32,000 hectares of forests. There is more good news . Degradable polythene bags and plastics are entering the market. Symphony Environmental Ltd., Hertfordshire, England has come out with a new degradable plastic product - degradation can start with UV light, heat, oxygen and film stress. The final degradation products of polythelene are the same regardless of the initiating system - carbon dioxide and water. (adapted from Invention Intelligence May - June 1999)

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EDITORIAL

Bulletin needs your Support

The India Council Bulletin has completed eight and a half years of existence and of late has been very regular in its publication, thanks to the support of the Sections and Chapters in all sense. Last month I had to downsize the volume of this bulletin, for want of announcements and reports. My appeal had a tremendous response and here I have many announcements of forthcoming worthy programmes. I had to edit them for want of space. I hope this trend will continue during the rest of this year.

Unlike in the previous two years, this time the Section sponsorship schedule has not been prepared and published. However, I am glad to note that Delhi Section has come forward to consider supporting the July issue. I also understand that the Kerala Section is considering the question of sponsoring the August issue. Sections, please intimate your support plans to the Chairman. This will help me to plan the issues sufficiently early and to contact the concerned Section office bearers for special matter for publication.

Needless to say, the news of forthcoming events alone does not prove the mettle of our technical activities. Reports of successful events will however, certainly prove the case. I look forward to more such reports. Brief bullets of reminders for events to come are also welcome for publication.

Regards,

Trivandrum Prof. V K Damodaran
03 July 1999. Editor



E-mail : vk_deo@usa.net [Click here to send an e mail to the Editor](#)

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<p style="text-align: center;">ACE 99 Intelligent Networking at Trivandrum 2 - 4 December 1999 Contact: Koruthu P. Varughese ieeek@vsnl.com</p>
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<p style="text-align: center;">NetCom 99 An International seminar on E-Commerce Opportunities and Challenges in India Organised by: MDI, Gurgaon In collaboration with áIDRBT (RBI), Hyderabad and IEEE India Council</p>
<p>The Park Hotel Connaught Place, New Delhi 29 October 1999</p>
<p>Registration: Restricted to 100 participants on first come first serve basis. Fee : Rs. 3000/- for Indian delegates : \$. 200/- for foreign delegates Payable to: Management Development Institute Gurgaon By DD or by a cheque on Corporation Bank Payable at Gurgaon. Contact : Seminar Chairman Prof. M.P. Jaiswal Netcom99@mdi.ac.in</p>

Topics

- o Welcome Address
- o Inaugural Speech on relevance of E Commerce in India.
- o Talk on Global E-Commerce and Information Security Issues by Prof. D. Longley, Information Security Research Centre, QUT, Australia.
- o Emerging Business Models and E-Commerce Infrastructure Issues in India by Prof. M.P. Jaiswal , MDI, Gurgaon
- o Digital payment systems and fund transfer by Dr.V.P.Gulati, IDRBT
- o Invited Presentation : E-Commerce Technology: Semiconductor Solutions for Enabling E-Commerce in 21st Century by Mr.Prakash Agarwal, President & CEO,á NeoMagic Corp. , Silicon Valley, U.S.A.
- o Panel Discussion on: Managing value in E-Commerce environment.
- o Electronic Fund Transfer
- o Extended ERP and Supply Chain Management
- o Customer Relationship Management
- o Panel discussion on Building Secure E-Commerce Infrastructureá
- o Secure Network Infrastructure
- o Information Security
- o Risk Management and secure payment systems
- o Invited Presentation on Innovative E-Commerce Application Product - An Indian initiative.

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2000 IEEE IAS Workshop on Electrical Safety in Industry

14 & 15 April 2000

India Habitat Centre, Lodhi Road New Delhi I E E E

PES - IAS DELHI CHAPTER

& DELHI SECTION

with IEEE INDUSTRY APPLICATIONS SOCIETY as Technical Cosponsor

The workshop is intended to:

- o Provide a forum for Electrical Engineers to meet and exchange information, experience and skill for preventing electrical accidents in industry
- o Use this understanding and knowledge for influencing the codes, standards, technology and their practical application for increasing electrical safety

PRESENTERS AND FACILITATORS:

Experts from industry, standards bodies, Government Departments, Universities and Institutes from India, USA, Italy, etc. have already expressed their desire to make presentations and facilitate discussion / interaction with participants.

Invitation is extended also to knowledgeable persons for further proposal on key presentations.

PARTICIPANTS PROFILE:

- o Every one concerned / involved in standards, codes, regulations, design, installation, operation and maintenance of electrical equipment used in industry
- o Workshop is limited to 80 registrants.
- o Participants are encouraged to bring their electrical safety practices / problems / concerns to the workshop

TOPICS:

- o Electrical Safety in Plants and Equipment, Protective Devices
- o Safety Regulations, Standards and Inspection Requirement
- o Arc Flash Hazards and Electrical Safety in Explosion Hazardous Areas
- o Electrical Safety Program, Practices and Implementation
- o Case studies on Major Electrical Accidents and Preventive Measures Adopted

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 - Mr. P. Y. S. Babiarz
(Crouse Hinds, USA)
- o Other Members of the Organizing Committee
 - Prof. R. Balasubramanian (IIT)
 - Prof. Ajay K. Tandon (DCE)
 - Mr. Dinesh P. Gupta (BHEL)
 - Mr. A. Velayutham (CEA)

Web site: www.ewh.ieee.org/r10/delhi/ias.html

Please contact: Dr. S. Mukhopadhyay Secretary General (IEEE Workshop) DII-62 Pandara Road, New Delhi - 110 003.

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**IEEE REGION 10 CONFERENCE
TENCON 2000**

25-27 September 2000 Nikko Hotel, Kuala Lumpur

Organisers: IEEE Malaysia and IEEE Region 10
Call for Extended Abstracts (1000 words)
Deadline: 31st January 2000

Contact:
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Chairman Tencon 2000
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Website: www.cairo.utm.my/tencon2000

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**IEEE Tutorial on
Recent Advances and Trends in Power Electronics and Drives**

19 & 20 September, 1999

Coordinators:
Prof. B. P. Singh
Prof. Bhim Singh
In association with
IEEE Distinguished Lecturer: Prof. Bimal K. Bose
University of Tennessee, Knoxville, USA
Organized by
IEEE PES-IAS Delhi Chapter,
IEEE Delhi Section and
Department of Electrical Engineering, IIT Delhi

Venue: Committee Room, EE Dept. IIT, New Delhi-110 016
Web page: www.ewh.ieee.org/r10/delhi/tu.html

General: The tutorial is being organized by the Delhi Chapter of Power Engineering and Industry Applications Societies of IEEE, IEEE Delhi

Section and Department of Electrical Engineering, IIT Delhi. The main resource person for the tutorial will be Prof. Bimal K. Bose, who is a Fellow of IEEE and a Distinguished Lecturer of Industrial Electronics Society of IEEE. He had won several awards including prestigious IEEE Lamme Medal.

Participation: This course is open to Engineers from Industries, Govt. Depts. and Public Sector Undertakings, Utilities and Teachers / Research Scholars from Academic / Research institutions.

Registration Fee:

Rs. 2500 (for participants from Industry and Govt. Dept. / PSU)

Rs. 1500 (for participants from Academic / Research Institute)

Rs. 500 (for Student / Research Scholar)

A rebate of 20% will be given to IEEE Members in all categories. The fee has to be paid in the form of Demand Draft / Banker s Cheque (for locals) drawn in favour of IEEE Delhi Section payable at New Delhi / Delhi. The fee includes course materials, working lunch and tea. The participants are required to make their own arrangement for stay.

Last Date for Registration: September 10, 1999

REGISTRATION FORM

IEEE Tutorial on Recent Advances and Trends in Power Electronics and Drives

(19 & 20September, 1999)

1. Name :

2. Designation :

3. Address :

.....

.....

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4. (a) Whether IEEE Member : Yes/No

(b) If yes, Grade & Membership No. :

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5. Mode of payment :

- Demand Draft on Delhi / New Delhi

- Delhi Local Cheque

(no..... dt.....

on.....)

6. Amount paid.....

(Signature of applicant) countersigned by :

(on behalf of the sponsoring organisation, if any)

To be mailed to :

Prof. Bhim Singh Dept. of Electrical Engineering

IIT Delhi, New Delhi - 110 016

Tel : 6861977/Ext. 2133 Fax: (011) 6966606

e-mail:bhim@ieee.org

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IEEE Computer Society Chapter

Two One-Day Tutorials on
1) Internet and Java programming in Practice
2) Cluster Computing for High Performance

15 & 16 July 1999 9.00 A.M. - 5.30 P.M.

Venue : Hotel Golconda Masab Tank, Hyderabad

Organised by
Computer Society chapter
IEEE - Hyderabad Section
URL: www.ewh.ieee.org/r10/hyderabad/
e-mail: ieeehyds@hd2.dot.net.in

Tutorial - I : 15 July 1999
Topic: Internet, Java, and Java Computing in Practice for Developers

Tutorial -II: 16 July 1999
Topic: Cluster Computing - Build your own Parallel Supercomputer
Subtitle:
1) Parallel Computer Architectures for Commodity Computing
2) High Performance Distributed Computing

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Speaker

Rajkumar Buyya is a Research Scholar at the School of Computer Science and Software Engineering, Monash University, Melbourne, Australia. He was awarded Dharma Ratnakara Memorial Trust Gold Medal for his academic excellence during 1992 by Kuvempu/Mysore University.

NOMINATION FORM

Name:

Designation:

IEEE Membership No.

Address:

Register for: Tutorial1/Tutorial2/Both 1&2

D.D.No.....Dated for
Rs.....(Rupees.....)
.....)

drawn in favour of IEEE , Hyderabad Section. Local cheques are also accepted.

Telephone: Off:

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E-mail:

Signature & date .

Your feedback is important !

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