

## Chairman's Message



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Dear Friends,

I am happy to mention that IEEE Madras Section in association with IEEE Computer Society, Madras Chapter and Computer Society of India, Chennai Chapter organized an invited talk on "eLearning - A new trend in Education"

by Ms. Latha Ramesh, Vice President, Cyber School Technology Solutions Pvt. Ltd, Chennai on June 20, 2009. Also IEEE Madras Section in association with IETE Chennai Centre, IET Chennai Network & IEEE Communications Society, Madras Chapter organized an invited talk on "Power Sector Reforms today" by Dr. B. Jayaraman, Member, Tamil Nadu Electricity Regulatory Commission on June 27, 2009.

Hearty congratulations to Mr. Sampathkumar Veeraraghavan of IEEE Madras GOLD Affinity Group for having won the people choice award along with the IEEE Outstanding Student Humanitarian Award in the IEEE president's change the world competition for the project Information System on Human and Health Services (ISHHS).

I am pleased to inform our members that Mr. H.R. Mohan, Chairman, IEEE Computer Society, Madras Chapter has been presented with a Certificate of Appreciation for his notable services and contributions towards the advancement of IEEE and the Engineering Professions during the year 2008. It may be noted that the IEEE CS had organized 42 events in 2008. My hearty congratulations to Mr. Mohan.

IEEE Computer Society Madras Chapter in association with IIT Madras, NRCFOSS - National Resource Centre for Free/Open Source Software, National Informatics Centre, Computer Society of India and IITM Alumni Association organized a one day workshop on "Green ICT - making it FOSSible" was held at IIT Madras on July 11, 2009.

Computer Society of India, Chennai Chapter and IEEE Computer Society, Madras Chapter organized a technical talk on "Virtualisation - Architecture, Infrastructure, Strategy" by Mr. V. Balakrishnanm, Partner & CIO, Polaris Software Lab Ltd, Chennai on July 18, 2009.

A Workshop on "Software Reliability & Testing" is being held on 31st July & 1st August 2009. This is being organised by Department of Information Technology, SSN College of Engineering in association with IEEE Computer Society, Madras Chapter, Div II on Software, Computer Society of India, Centre for Reliability, Ministry of Communication and IT.

IEEE Communication Society and Computer Society, Chennai Chapters joined SSN College of Engineering, Chennai in organizing an International Conference on Wireless Communication and Sensor Computing - ICWCSC 2010 during January 02 - 04, 2010 in association with Indian Nuclear Society, IGCAR, Kalpakkam. This conference is listed in IEEE Conference Calendar <http://www.ieee.org/web/conferences/>

*contd..... page 2*

## From The Editor's Desk



**H.R. Mohan**  
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Dear Friends,

We are just one month ahead of the IEEE Madras Section's programme to celebrate the 125<sup>th</sup> Anniversary of IEEE. Apart from the address by the IEEE President, Dr. John Vig and the Anna University VC, Dr. P. Mannar Jawahar, two special invited lectures - "Towards Technology Leadership in Wireless Communication" by Dr. Ashok Jhunjhunwala of IIT Madras and "Technologies for Sustainable Development" by Dr. M. Anandakrishnan, Chairman, IIT Kanpur & Science City Madras have been arranged. In the afternoon, student centric programmes are organised. The participation in this celebrations is FREE for all our members but on prior registration. If you have not already registered, pl. visit the Madras Section website at <http://ewh.ieee.org/r10/madras/> and fill-up the online registration form.

LINK congratulates Mr. Sampathkumar Veeraraghavan, GOLD member and Mr. H.R. Mohan, Chairman, Computer Society for receiving honours from the IEEE HQ. The details are published elsewhere in this issue.

The reports of the five events - three talks dealing with "eLearning", "Electronic Payment Systems" and "M'Power: ERP Solutions" - one presentation cum demo on "Dance Therapy" and one workshop on "Technologies of the Future" organized by the IEEE Computer Society Madras Chapter appear along with a report on the "Administrative Meeting of the IEEE Education Society and a Technical Seminar" held at Hindustan Inst. of Technology & Science, proceedings of the felicitations to Ms. Ramalatha, the IEEE MGA Awardee and the launch of "Novel Screening System - humanitarian project for children" and a detailed report on the FDP on "Challenges in Information Security" held at Karunya University appear in this issue of LINK.

LINK congratulates Mr. J. Brighton Vino of SSNCE, and Mr. P. Praveen Kumar of Velammal Engg. College, the winners of Info Contest 0906 who will receive a prize of Rs. 500/= each sponsored by SRA Systems.

During Feb 2009, an initiative for Digital Literacy for Rural Areas to empower the women and youth was launched in the city by the Rotary Club, Exnora International and the IEEE CS Madras Chapter. Now, we wish to take it forward to other regions with the support of IEEE student branches and WIE affinity groups. Pl. see the announcement appearing in the current issue of LINK in this regard and respond positively.

Reader's attention is drawn to the announcements relating to the Workshop on Software Reliability & Testing, DLP by PES at IIT, and a host of forthcoming conferences in which they can participate either by contributing papers or as delegates.

### Editorial Team

Mr. H.R. Mohan, Dr. S. Salivahanan, Dr. M. Ponnaivaikko,  
Dr. P. Suresh Chander Pal, Mr. T.S. Rangarajan, Mrs. M. Ramalatha

## Administrative Meeting of IEEE Education Society and Technical Seminar at HITS



At Hindustan Institute of Technology & Science (HITS), on 13<sup>th</sup> Jul 2009, in the forenoon, IEEE Education Society chapter and IEEE Madras Section had an administrative

meeting with Dr. Rob Reilly, Secretary, IEEE-Education Society, USA and Dr. Oliver K. Ban, IBM, USA.

Dr. R. Devanathan, Vice Chair IEEE-Education Society under IEEE India Council chaired the meeting session. Dr. Kasi Rajgopal, Chairman IEEE India Council and Dr. Suresh Chander Pal, Chairman Students Activity, IEEE Madras Section were also present in the meeting.

The guests addressed the students of Hindustan Institute of Technology and Science. Nearly 50 students were present in the meeting.

In the afternoon, a technical seminar was

organized. There were four speakers.

Dr. Rob Reilly, Secretary IEEE-ES gave a lecture on "Can you win the Nobel Prize you certainly can". Dr. Oliver K. Ban, IBM, USA, delivered a lecture on "EE's future a few thoughts from industry perspective".

In the second half of the afternoon session, a detailed lecture on "Medical Imaging System and Applications" was presented by Dr. Kasi Rajgopal, Chairman IEEE India Council.

Dr. Suresh Chander Pal, Chairman, Students Committee, IEEE Madras Section addressed the students. He spoke on the benefits of becoming an IEEE member. He also initiated the formation of various committees of IEEE student branch of HITS. Nearly three hundred students attended the seminar.

## Presentation on "M'Power ERP Solutions"



A presentation on "M'Power ERP Solutions" by Mr. K. Ravichandran, Founder Director, IndUS Cybertech Pvt Ltd, Chennai was organized jointly by the IIT Madras Alumni Association, Chennai Chapter, IEEE

Computer Society, Madras Chapter and Computer Society of India, Chennai Chapter on Saturday, 27<sup>th</sup> Jun 2009 at 5.30 p.m. at the Dept. of Management Studies, IIT Madras.

Prof. L.S. Ganesh, President, IIT Madras Alumni Association, Chennai Chapter welcomed the gathering and wished many such joint meetings could be organized to highlight the innovative projects and products being undertaken by the IIT Alumni. Mr. Raj Varadarajan of IIT Alumni Association gave a briefing on the activities of the Association. Following this, Mr. H.R. Mohan, Chairman, IEEE Computer Society said that Enterprise Resource Planning Applications are expensive and the success rate of implementation is low and these solutions are not affordable by SMEs and added that handholding becomes essential to get the maximum benefit from such solutions. Mr. K. Krishnan Kumar of Indus Cybertech introduced the speaker Mr. K. Ravichandran.

Mr. Ravichandran, who had an extensive manufacturing experience, said that out of passion for software development, got involved in the design and development of M'power, a comprehensive and a fully integrated ERP

Solutions catering to the mid sized manufacturing companies in the following segments: Bulk Drug and Pharmaceuticals; Chemical Processing and fine Chemicals; Food Processing; Engineering and Component Assembling; Trading, Distribution and Retail.

He added that M'Power can handle the data requirements of ISO 9000, GMP/FDA and offers a Just-in-Time material planning and lean manufacturing environment for the discrete and process industries and has following modules: Materials; Sales; Finance; Production Planning, Production and Quality Assurance; Maintenance; Logistics; Human Resources; Reports (over 300 pre built reports); System Administration (Security, Data Transfers and Back-up/ recovery) and Power writer ( to generate your own reports). M'Power covers a large scope of functions and features that can directly fit at least 85-90% of any industries' requirements and with a bit of customization, well over 95%. Indus through its proprietary

implementation methodology, gives you the comfort of a quick implementation balanced with right training for successful implementation.

Mr. Ravichandran, said that selecting the right ERP solution is like finding a bride and advised to beware of the glitzy, glamorous pin up model, who offers herself without much ado (thanks to the recession), may be easy to acquire, but pretty expensive to maintain. According to him, the right ERP may be the one whose maturity level matches with that of your organization and that can trust to be responsive to your organization needs. Ensure that the ERP you chose works for you, rather than you having to work for your ERP and ending up carry somebody else's burden on your shoulders all your life. More info on M'Power is available at <http://www.induscyber.com/>.

The presentation was attended by about 50 professionals and few academic faculty members. At the end of the presentation, Mr. S. Ramasamy, Chairman, CSI Chennai Chapter presented a memento to the speaker and proposed the vote of thanks.

*Chairman's Message continued....*

search/index.html. Accepted papers will be published in the proceedings of the conference and IEEE Explore and the extended version of the selected papers will be published in the International Journal of Distributed Sensor Networks. For further details, visit [www.ssnicwsc2010.in](http://www.ssnicwsc2010.in). The IEEE members can utilize this opportunity to present their research findings.

This is my gentle reminder to every member to register to the programme being

organized by the IEEE Madras Section in connection with the IEEE's 125<sup>th</sup> Anniversary Celebrations - 2009 at Madras Institute of Technology, Chrompet, Chennai on August 27, 2009 with the participation of Dr. John Vig, IEEE President and Dr. P. Mannar Jawahar, Vice Chancellor, Anna University Chennai. All the IEEE Student Branch Counsellors, Student Volunteers and other members are requested to be free on this day for the celebrations of this memorable event at Chennai.

*Dr. S. Salivahanan*

## Presentation on “eLearning - A new trend in Education”



A presentation on “eLearning - A new trend in Education” by Ms. Latha Ramesh, Vice President, Cyber School Technology Solutions Pvt Ltd, Chennai was organized jointly by IEEE Madras Section, IEEE Computer Society, Madras Chapter and Computer Society of India, Chennai Chapter on Saturday, 20th Jun 2009 at ISTE Professional Centre, Gandhi Mandapam Road, Chennai.

Dr. S. Salivahanan, Chairman, IEEE Madras Section welcomed the gathering and introduced the speaker, Ms. Latha Ramesh.

Ms. Latha, in her introductory remarks, said that the present day education is faced with a number of problems such as inadequate qualified teachers, lack of infrastructure and lack of standardization in what is taught and the situation is not isolated to schools alone and is the same when it comes to higher education too and went on to add that very few organizations allocate adequate budgets for education and training of their employees. According to her, eLearning, aims to provide solutions and address many of these issues and the cyber culture which has advanced significantly, offers many

different levels of academic engagement. The worldwide eLearning industry, estimated to be worth over 38 billion euros, is expected to provide very many opportunities.

She defined that eLearning is the pedagogy empowered by digital technology and is an umbrella term that refers to any of the following:

- CBT (Computer Based Training referring to CDs/DVDs),
- WBT (Web-Based Training using PDFs, HTML pages or digital content created with tools like Flash—with or without animation, graphics, audio, or video),
- Video lectures (also known as Interactive Video Lectures - iVL) and audio lectures (also known as Interactive Audio Lectures - iAL),
- Live Virtual Classroom
- mLearning, which includes PODcasting (Audio Lectures), VODcasting (Video Lectures), etc

While talking about the Key drivers for e-learning usage, she identified the three major items namely, the Need, Environment and the Solution Offered. She added that the Effective e-learning material should fulfill the following characteristics: Applicability: Strong connection between the course content and learner benefits; Instructional structure: Material should relate to reading level, depth and experience of the target audience; Interactivity: Learner to content, learner to instructor and learner to learner and Navigation: Ease with which student learns and

ability to find their way.

She briefed the audience on the E-learning course development cycle which is similar to the software development and includes the phases such as planning, requirement analysis, production, customer evaluation and customer communication. She emphasized that in eLearning, “Pedagogy comes First and Technology comes Next”.

Ms. Latha then dealt with Learning Management System (LMS), SCROM – a set of technical standards for e-learning software products, eLearning Deployment options such as DVDs / CDs / Flashdrives; Host in Institute server / web (VLE or MLE); iPOD; IPTV, Mobile and digital streaming. She concluded that the target audience for eLearning is quite broad and include: Learners in schools and colleges; Learners who do not have access to formal education; Special learners; Teachers; Parents and Corporates (for skill upgrade)

An interactive demo on a biology module was also done as a part of the presentation.

The presentation was attended by over 60 40 professionals and faculty members. At the end of the presentation, Mr.H.R. Mohan, Chairman, IEEE Computer Society, in his remarks said that eLearning has already become popular and will be the future model to enrich our skills. Mr. S. Ramasamy, Chairman, CSI Chennai Chapter proposed the vote of thanks and General A. Balasubramaniam, presented a memento to Ms. Latha Ramesh.

## Workshop on “Technologies of the Future” at RMD Engineering College



A workshop on “Technologies of the Future” was organised at RMD Engineering College in association with EMC Corporation,

CSI Div II on Software & Chennai Chapter and IEEE Computer Society, Madras Chapter on 25th June 2009. The workshop was aimed to

provide an update to the faculty members of the various engineering institutions and was attended by over 40 from all over the country.

Inaugurating the workshop, Dr. T V. Geetha , Chairperson, Board of Studies – Information and Communication Engineering, Anna University, Chennai, addressed on the challenges today’s information world has set for educational institutions to effect changes in their infrastructure, technology and mode of teaching, and take responsibility to make students actively participate in their own education and become professional in their chosen fields. On Future Trends in Education and Web Collaboration, she added that the pressing need for the institutions is to be open for creative teaching and teamwork as the emerging technologies would enable students and teachers interact across the globe.

Mr. H.R. Mohan, Chairman - IEEE CS Madras Chapter & CSI Div II on Software and Associate VP (Systems), The Hindu, Chennai, traced the historical developments in the area of storage and software and wished the participants to take up a serious course on Information Life Cycle Management and newer trends such as On Demand / Cloud Computing and other advanced technologies.

Mr. Krishna Kant, Senior Program Manager, EMC Academic Alliance, EMC Corporation, in his session on the Challenges & Opportunities in the expanding Digital Universe, said like the physical universe, the Digital Universe is not just expanding but exploding. As per the recent IDC study on Digital Universe, 487 exabytes of data was generated in 2008. By 2012, there will be five times as many bits created or captured and

added to the Digital Universe as in 2008. As data growth accelerates, information storage is becoming a central function in IT infrastructures. Befitting its elevated status, it is imperative that companies place the same level of focus on managing storage as they do with other elements in the IT infrastructure. The problem is that IT professionals with information storage skills are hard to find. Predictably, he said, the skills gap needs to be addressed as data growth continues and information storage and management complexity increases.

Dr. K. Sivaram, Principal, RMD Engineering College delivered the presidential address; Dr. R.M. Suresh, Vice Principal, welcomed the gathering; Mr. S. Muthukumar, Training and Placement Officer, rendered Vote of Thanks.

EMC Corporation declared RMD Engineering College as its privileged partner in Chennai region for the academic year 2009-2010. Dr. T V. Geetha & Mr. H.R. Mohan received a copy of the book *Information Storage and Management: Storing, Managing and Protecting Digital Information* which is a definitive reference on the full spectrum of storage technologies for everyone who must understand how to efficiently store, manage and protect digital information—from students, to Academicians, to IT professionals in the field and senior technology decision makers.

Mr. Smartha Thakurta, Technology Consultant, EMC Corporation, Mr. Rajesh Nambiar, Program Manager, EMC Corporation were the other dignitaries present and addressed the participants.

## IEEE serves societal needs—Lions in District 324-A6 join!



**N**ovel Screening System—a humanitarian project for children with special needs, was launched by PMJF Lion Kamala Mahadevan, Lions Governor, District 324-A6 at a function organized by the IEEE GOLD Affinity group and IEEE Women in Engineering Affinity group, along with the International Association of Lions Clubs (Lions Clubs International) on 4<sup>th</sup> June 2009 at the Multitrack Auditorium, All India Radio Station, Chennai, with the lighting of kuthu vilakku and vedic chanting.

MJF Lion Dr. P. Suresh Chander Pal, Chair, SAC, IEEE Madras Section, who is also the Lions District chairperson for the Welfare of the differently abled, welcomed the gathering of Lions' dignitaries, Lion members and the public.

The project “Novel Screener” launched, was a unique one as it was a software developed by Er. Sampath Kumar Veeraraghavan, Researcher at Tufts University, USA who is also the Section Chairperson, GOLD Affinity Group & RAB/Asia-Pacific Achievement Awardee, to evaluate quickly the degree or the

extent to developmental disorders in children, particularly in the 0 to 2 and 2 to 6 age-groups, so that early intervention for remedial action can be taken for them to return to mainstream & normalcy without anguish, suffering or misery.

Er. Sampath Kumar Veeraraghavan explained the features of the Novel Screener and its benefits through video-presentation and said that this scheme has been approved for adoption by Tamil Nadu Government in 31 Districts and the survey for data collection, has been undertaken village/town wise.

Mrs. Jaya Krishnaswamy, Director, Madhuram Narayanan Centre for exceptional children, who has been helping the children with disability in Chennai for over two decades spoke on the importance of early intervention. Her vivid presentation on the screen, seen with Mother Theresa lauding AVM Krishnaswamy-Jaya couple's efforts and the practical training given by them for evaluation of the child's motor, social & language skills and treatment with parents as co-teachers and co-therapists was praise worthy.

Prof. Ramalatha IEEE WIE Asia-Pacific Coordinator, offered felicitations and spoke

about the Career Guidance programme and the IEEE WIE's successful efforts in taking technology to rural areas.

Dist Governor, PMJF Lion Kamala Mahadevan and the Governor-Elect, PMJF Lion G. Gajendiran were all praise for this laudable project and the development of training and WIE programmes. There was a very useful interactive session with the guest speakers and the participants. The presentations were really moving and touched their hearts! It was assured by the Lion dignitaries that the Lions Clubs will identify schools for pilot studies, region-wise and spread the awareness and avail the services offered by the young and successful Researcher and IEEE volunteer, Er. Sampath Kumar Veeraraghavan and Mrs. Jaya Krishnaswamy, Director, MNC to help the community. Help will also be sought for the Career Guidance programmes for students studying 10<sup>th</sup> and plus two standards in schools.

MJF Lion George Fernandez, Lions District Public Relations Officer offered felicitations and informed that is the first time in the History of Lions movement in India that this kind of a program was launched to help the need of the children with developmental disorders. Past District Governor, PMJF Lion Ramesh Babu also expressed his appreciation and wished the project all success. After the thanks giving remarks by MJF Lion Dr. P. Suresh Chander Pal, dinner was served to the attendees. It was an unforgettable experience!

*Report by: Dr. P. Suresh Chander Pal, Chair, SAC, IEEE Madras Section*

## Felicitations to IEEE MGA Achievement Awardee and Honouring the Mentors of WIE & GOLD

Major national professional societies such as Broadcast Engineering Society, Institution of Electronics and Telecommunication Engineers, Computer Society of India and Institution of Engineers joined together at Hotel Pamgrove on 2<sup>nd</sup> Jun 2009 to felicitate Mrs. Ramalatha Marimuthu, who won the IEEE MGA Achievement Award this year. Mrs. Ramalatha Marimuthu received the MGA Achievement award for the year 2008 from the Institution of Electrical and Electronics Engineers Inc., USA and the award was distributed during the Region 10 meet in Vietnam, on February 28<sup>th</sup> 2009. She received this award for her efforts on mentoring the students and increasing their social responsibility which benefited a lot of rural societies into reaping the results. The national societies honored this Achievement on this auspicious evening.

The meeting started after High Tea at 6 p.m. After invocation, Mr. Sampathkumar Veeraraghavan, Chair, IEEE GOLD welcomed

the gathering. Dr. Salivahanan, Chair, IEEE Madras Section gave the presidential address. In his address, he mentioned that Women in Engineering is one of the most active societies in Madras Section which has put the Section in the First place among its contemporaries.



The Chairs and Executive members of the organizing societies were invited to offer the felicitations next. The first ones to be called were Er A. Ganesan, Former DGM, BSNL and Er Appakutty, Former Chief Engineer, Doordarshan & AIR on whose efforts this function had materialized. Next followed the felicitations of Dr D. Thirunakkarasu, Chair, The Institution of Engineers, Er V. Mohanadoss, Council Member, Broadcast Engineering Society, Er H.R. Mohan, Chair, Software Division, Computer Society of India. Er. Venkateshwarlu, Executive Committee Member, BES also shared a few words in appreciation of the awardee.

The awardee was then invited to share her gratitude and during her speech she thanked

the Chairs and Executive Committee members of all the professional societies who have joined hands to honor her.

After this, IEEE Madras GOLD and IEEE Madras WIE together honored their Mentors. Mentoring is an important part of IEEE and Mrs. Ramalatha mentioned how the guidance, counseling and encouragement provided by some of the veterans of IEEE Madras Section had helped her to achieve her goals. In recognition of the services extended by these mentors, Madras IEEE GOLD and Madras IEEE WIE joined together to honor those mentors. The "Lifetime Achievement Award" was presented to Dr. Suresh Chander Pal, Dr. G.V. Rao and Er. K.V. Rupchand for their guidance to the GOLD and WIE members in executing the activities. "Outstanding Mentor Award" was presented to Dr. T. Thiagarajan for his constant support and encouragement to the GOLD and WIE activities and the awards were presented by Dr. S. Salivahanan, Chair, IEEE Madras Section.



**IEEE Madras Section**  
and  
**IEEE Power & Energy Society**

Organizes a

**Distinguished Lecture Programme on**  
**'LMI approach to damping control design by FACTS devices'**

By  
**Dr. Bikash C Pal**  
Department of Electrical and Electronic Engineering  
Imperial College London

On 12<sup>th</sup> Aug 2009 at IIT Madras

*Invites with timing and other details will follow shortly*



## IEEE MAS LINK SRA Systems

### Info Contest

**H.R. Mohan**

Chairman, IEEE CS, Madras Chapter  
Editor, IEEE MAS LINK  
AVP (Systems), The Hindu, Chennai

This is the FIFTEENTH contest under Info Contest – a regular column in our newsletter IEEE MAS LINK. The content mix now includes some General Knowledge questions in addition to IT related. This, we believe would provide an overall exposure and also facilitate more participation.

Members are encouraged to participate in the contest and win prizes. Answers are to be sent by EMAIL ONLY. Please follow the guidelines provided at the end of the questions.

TWO lucky winners who answer to maximum no. of questions and early (selected by lot if multiple entries qualify) will receive an award of Rs. 500/= each, sponsored by SRA Systems.

#### Info Contest – 0907

This contest has 25 questions in five sections — A, B, C, D & E — each having five questions.

#### A. In the following acronyms/ abbreviations “P” stands for what.

- A1. HPC
- A2. SMTP
- A3. POST
- A4. OLAP
- A5. POSIX

#### B. Provide the answer.

- B1. Name the largest Telco in India
- B2. “Do the new” is the tagline of which mobile service
- B3. What is the codename of the new and free antivirus package from Microsoft for Windows designed to protect the OS from viruses, spyware, rootkits and trojans
- B4. Who has been appointed to head the Unique Identification Authority of India

B5. Name the National Portal of India

#### C. Fill in the blanks / Provide the answer.

- C1. Bike : Apache = Car : \_\_\_\_\_ (clue: Software)
- C2. Drivers and many of the other settings in Microsoft Windows 95 and higher are stored in the \_\_\_\_\_
- C3. The original Apple computer company logo had Sir Isaac Newton sitting under an apple tree. State True or False
- C4. Black : #000000 = White : \_\_\_\_\_
- C5. Paste: Ctrl + V = Cut : \_\_\_\_\_

#### D. Provide the answer.

- D1. When a cube of 4cm is cut into 1cm cubes, what will be the percentage increase in surface area
- D2. Name the best selling album of all time
- D3. Name the floating retail store/mall recently launched in the backwaters of Kuttanad region in Kerala
- D4. Identify the airlines whose tagline is “Flying for Everyone”
- D5. The movie “Slumdog Millionaire” was based on the novel \_\_\_\_\_ written by Mr. Vikas Swaroop

#### E. Fill in the blanks / Provide the answer.

- E1. King of Pop: Michael Jackson = Queen of Pop: \_\_\_\_\_
- E2. The phrase “Eve Teasing” was coined in Singapore. State True or False
- E3. The first sea link bridge in India connects Bandra and \_\_\_\_\_
- E4. India: Rupees = South Africa : \_\_\_\_\_
- E5. Which Indian City is known as “Venice of the East”

#### Guidelines to submit the answers to the Info Contest by email.

In the Subject,

- Write the Contest No. (Info Contest – 0907) in the subject line.

In the body of the mail,

- In the first line, write the contest No: Info Contest – 0907.
- In the second line, write your membership no.
- In the third line, write your email id.

- In the fourth line, write your name.
- In the fifth line, write your college / organization name.
- In the sixth line, write the answers to the five questions of Section A, separated by comma.
- In the seventh line, write the answers to the five questions of Section B, separated by comma.
- In the eighth line, write the answers to the five questions of Section C, separated by comma.
- In the ninth line, write the answers to the five questions of Section D, separated by comma.
- In the tenth line, write the answers to the five questions of Section E, separated by comma.

As the evaluation of the entries is automated, pl. ensure the above guidelines are followed.

**Email the answers to:**  
[hrmohan.infocontest@gmail.com](mailto:hrmohan.infocontest@gmail.com)

**The last date to receive the answers by email is 5<sup>th</sup> Aug 2009.**

#### Info Contest – 0906 Answers & Winners

##### Answers:

Format, Frequency, Failures, For, Field Gynoid, True, Gary Thuerk, Bing, Milton Sirotta  
Tux, Web 2.0, Moblin, 1999, anti-virus software,  
Nipper, Azharuddin, Aila, Lufthansa, eight Subha Griha, Mahindra & Mahindra, Nayak, GM, 153

##### Winners:



Mr. J. Brighton Vino  
Sri Sivasubramaniya Nadar  
College of Engineering  
Mem No: 90309900  
Email: brightonvino@gmail.com



Mr. P. Praveen Kumar  
Velammal Engineering College  
Mem No: 90485115  
Email: pprawinkumar@gmail.com

Both the above will be awarded a prize of Rs. 500/= each. LINK acknowledges with thanks the sponsorship of the awards by SRA Systems (www.srasystems.com).

## Presentation on “Electronic Payment Systems”



A presentation on “Electronic Payment Systems” by Mr. G. Kannan Director, FIS Global Business Solutions India Pvt. Ltd, Chennai was organized jointly by the Computer Society of India, Chennai Chapter and IEEE Computer Society Madras Chapter on Saturday, 13th Jun 2009. Mr. H. R. Mohan, Chairman, IEEE Computer Society Madras

while welcoming the gathering, said that in the growing e-commerce space, an understanding of the electronic payment systems is a must and this programme is a timely one. Mr. Ramesh Bhashyam, member of the management committee of CSI Chennai Chapter then introduced the speaker.

Mr. Kannan, with extensive experience in Information Technology & Banking industry, is now responsible for Software Development activities in Electronic Payments domain and plays the role of Chennai center-head of the global organisation, responsible for strategic planning of his organization in terms of Cost, Resources, Facilities, Infrastructure, etc. His presentation covered the following aspects:

- Different channels of Electronic Payments & how they work (viz. ATM,

POS, E-Commerce, M-Commerce, ...)

- Introduction to gorgons/terminologies (Cards, Types, EMV, Embossing, Encoding, ...)
- Security in Payment Systems (Encryption, Key-Exchange, Neural Networks, ...)
- Expectations from consumers/users (Ease of Use, Safety, Reliability, Availability,...)
- Future Trends (Role of Govt., RBI, Legal Systems, ...)

The presentation, attended by over 50 participants was highly interactive with a no. of questions and sharing of the experiences by the participants. After the talk, Mr. S. Ramasamy, Chairman, CSI Chennai Chapter presented a memento to the speaker Mr. Kannan and proposed the vote of thanks.

## Presentation cum demonstration on “Dance Therapy”



A presentation cum demonstration on “Dance Therapy” by Mr. Muthiah Ramanathan, Director – Training of Mind Dynamics Center and Ms. Gitu Pappu @ Gayathri, Dancer and Yoga practitioner on Saturday, 6th June 2009 was organized jointly by the Computer Society of India, Chennai Chapter and IEEE Computer Society Madras Chapter. Mr. H. R. Mohan, Chairman, IEEE Computer Society Madras while welcoming the gathering, said that with the increased level of stress among the IT professionals, relaxation techniques and therapies would go a long way in balancing the work and life. Mr. S. Ramasamy, Chairman, CSI Chennai Chapter then introduced the resource persons.

Dance therapy, is the psychotherapeutic use of movement and dance for emotional, cognitive, social, behavioural and physical conditions. It is believed that dance therapy strengthens the body/mind connection through body movements to improve both the mental



and physical well-being of individuals and the purpose of dance therapy is to find a healthy balance and sense of wholeness. Dance therapy, recognized as a distinct therapeutic discipline, attempts to unlock our body’s ability to communicate through the use of creative movements. By getting people to move freely, this program aims to begin the process of self-expression and reveal ourselves more completely

Although dance therapy is promoted to reduce stress and center the body, this therapy is considered to be effective in helping to heal disabilities and diseases too. Some of them include: Autism, Learning disabilities, Mental retardation, Visually impaired, Eating disorders, Parkinson’s disease etc.,

The resource persons explained the various forms of movements such as Finger Pencil - Follow Finger, Streamer and made the group to practice them. The entire session was

made as participative where in all the participants took part and practiced the various movements. Participants in groups staged skits with emotions and expressions and at the end, the Ice Meltdown Relaxation was also administered.

The participants numbering about 45, enjoyed the presentation cum demonstration and practice. They felt that the whole session was refreshing and assured that they would practice it regularly. After the talk, Mr. S. Ramasamy, Chairman, CSI Chennai Chapter presented a mementos to the resource persons and Mr. Kamalak Kannan, Secretary, CSI Chennai Chapter proposed the vote of thanks.

### Section Membership as on 15th July 2009

Life Fellow	-	1
Fellow	-	1
Life Senior	-	5
Senior Member	-	69
Life Member	-	3
Member	-	1381
Associate	-	80
Affiliate	-	37
Graduate Student Member	-	717
Student Member	-	3813
<b>Total</b>	-	<b>6,107</b>

## FDP on “Challenges in Information Security” held at Karunya University



The School of Computer Science and Technology of Karunya University organized a two day Faculty Development Program (FDP) on “Challenges in Information Security” at Karunya University campus on 19<sup>th</sup> and 20<sup>th</sup> of June 2009. The programme began with the inaugural function graced by the Vice Chancellor of Karunya University, Dr. Paul P. Appasamy, Dean PG, Dr. Michael N. Kumar, Dr. E. Kirubakaran, Deputy General Manager of Bharat Heavy Electricals Ltd., Trichy, Mr. S. Gopinath, Senior Systems Engineer National Informatics Centre and Dr. Elijah Blessing, Convenor, IEEE FDP & Director-in-charge of School of Computer Science and Technology.

The guests and delegates participating in the FDP were warmly welcomed by Dr. Elijah Blessing. The presidential address was delivered by the Vice Chancellor, where he highlighted the importance of information security. His speech was followed by Dr. Michael’s introduction to the IEEE and its activities. He also invited the faculty members who had not registered with the IEEE to also become a part of the organization. Thereafter, the keynote address was delivered by Dr. E. Kirubakaran, where he spoke about the role of Information System Security in the current business scenario. He gave a number of illustrations that brought out the perils of data security in the Internet; he also spoke of methods to avert the danger.

In the following session by Mr. Alamuri Sitaramaiah, General Manager, Fluke Networks, India, he explained in detail the need for

Network Monitoring, which is a prerequisite for network security. He explained the mechanism to identify the abnormal behaviors in the network and the solutions to defend them by using Baselineing. He finished by quoting, “If you cannot measure it, you cannot manage it, if you cannot manage it, you cannot secure it”.

The afternoon session was handled by Mr. Gopinath, Senior System Engineer, NIC Chennai. He gave an overview of information security and then shed light on some of the recent trends in security. He also described the importance of virtualization in corporate sector. He then gave demonstrations on some of the Linux based network tools like pktstat, nmap, ListScan, Pingscan and explained how they can be used for the identification and prevention of threats. The session concluded with a demonstration of N – MAP which is an open source utility for network exploration and security auditing.

During the second day of the Faculty Development Program Mr. Mathan Babu, ISSP, Regional Manager, Symantec delivered a lecture on Network Security and its Challenges. He explained Cross Site Scripting, Phishing, Password Attacks and the risk involved in using pirated software. He also discussed in detail the vulnerabilities in network security and how Symantec efficiently provides solution to all security vulnerabilities.

In the afternoon session Mr. Hozefa Topiwala, Network and Security specialist, Certified Trainer of Kaspersky labs, Moscow and Microsoft, took an interesting presentation on Ethical Hacking and its countermeasures. He explained how to be a structured hacker for the benefit of humanity. He also focused on how these tools are powered in disclosing the confidential data, and how we the users of network can protect ourselves from such hacking attack with the help of Internet Security Suite provided by Standard vendors Symantec, McAfee Kaspersky, BitDefender etc.

Dr. (Mrs.) Ann Mary Fernandez, Registrar, Karunya University presided over the valedictory function, delivered the felicitation address and handed over the certificates for the participants. Dr. Elijah Blessing, Convener, IEEE FDP, and Director i/c, School of Computer Science and Technology thanked IEEE Madras Section Committee members and the Management for their support to make the IEEE FDP a grant success.

The feedback from the participants was very encouraging. They stated that the Faculty Development Program was informative, illustrative, interactive and interesting. They appreciated the organizing team for arranging such a wonderful FDP and felt that the lecture from industry experts was very useful for their research work and their career.



IEEE MAS LINK congratulates Mr. Sampathkumar Veeraraghavan, past chairman, IEEE Madras GOLD Affinity Group for having won the people choice award along with the IEEE Outstanding Student Humanitarian Award in the IEEE president’s change the world competition for the project Information System on Human and Health Services (ISHHS). Under this categories stated, ISHHS has stood as a winner among 200 entries across the globe.



**Two Day National Level Workshop on  
Software Reliability & Testing  
31<sup>st</sup> July & 1<sup>st</sup> August 2009**

*Organised by*  
**Department of Information Technology  
SSN College of Engineering**

*In Association with*  
**IEEE Computer Society, Madras Chapter  
Div II on Software, Computer Society of India  
Centre for Reliability, Ministry of Communication and IT**

**SESSIONS:** The sessions in the workshop will cover the key concepts of software reliability and testing in a nutshell, and will include:

- “*Software Reliability Principles, Models & Metrics*” by Mr. D Damodharan, Scientist D & Joint Director, Centre for Reliability, Ministry of Communication and IT, Chennai.
- “*SQM aspects in Project Development*” by Dr. T. V. Gopal, Prof., Dept. of CSE, Anna University Chennai.
- “*Setting up the right expectations for Software Test Automation*” by Mr. Aravindhan R, CoE-Automation, Maveric Systems, Chennai.
- “*Software Testing Principles, Strategies & Test Case Design*” by Ms. Rekha TMS, Asst. Manager, Testing Services, CTS, Chennai.
- “*Best Practices for Testing focusing on Financial Applications in BFSI Sector*” by Ms..B..Rajalakshmi, Senior Manager-Technology, Thinksoft Global Services, Chennai.
- “*Software Test Architecture & Live presentation of Test Automation Tools*” by Mr. Jayakumar KR, Director, AmitySoft Technologies Pvt Limited, Chennai.

**VENUE:** SSN College of Engineering, Rajiv Gandhi Salai (OMR), Kalavakkam-603 110

**DATE & TIMINGS:** July 31<sup>st</sup> and August 1<sup>st</sup> 2009:: 08.30 to 15.30 hrs

**REGISTRATION FEE:** Academicians : Rs. 1000 ; Industry Delegates: Rs. 1500; Students : Rs. 500

Industry delegates who are members of CSI & IEEE CS will get 10% discount on the registration fee of Rs. 1500/-.

**PAYMENT DETAILS:** The registration fee should be paid in the form of Demand Draft drawn in favour of “The Principal, SSN College of Engineering” and payable at Chennai and to be sent along with the registration form.

**Last date for the receipt of registration form along with DD: 25<sup>th</sup> July 2009**

For registration and other information, please visit the website [http://www.ssn.edu.in/IT\\_Workshop/home.html](http://www.ssn.edu.in/IT_Workshop/home.html) or contact the Workshop Co-ordinators

Ms. S. Mohanavalli, Assistant Professor, Department of Information Technology, [mohanas@ssn.edu.in](mailto:mohanas@ssn.edu.in) :: Phone: (044) 2747 4844 / 45 /46 Extn: 370 Mobile: 98403 04135

Mr. I. Joe Louis Paul, Assistant Professor, Department of Information Technology, [joelouisi@ssn.edu.in](mailto:joelouisi@ssn.edu.in) :: Phone: (044) 2747 4844 / 45 /46 Extn: 368 Mobile: 98415 14138

## Digital Literacy Project for Rural Areas

Digital Literacy Exnora (DLE) has taken up the cause of Digital Literacy to empower deserving women and youth, using self paced multimedia eLearning content. DLE proposes to join hands with IEEE Computer Society in implementing the Digital Literacy Project jointly with the IEEE student branches and WIE Affinity Groups at various institutions. In this project, training would be extended to rural women and youth at each of these centres (institutions) who wish to volunteer to partner with DLE through their student branches. The eLearning content was developed by INDISS (Indicom Software and Services). The pilot project was launched on 20<sup>th</sup> April 2009 and for the report appeared in IEEE MAS LINK, pl. visit <http://ieeecs-madras.managedbiz.com/link-web/0905/0905link-02.pdf>

The uniqueness of this project is the self-paced eLearning content which will be the medium of training. With this, large scale training programmes can be implemented rapidly with minimal manpower support. The eLearning content plays video like simulations and also allows the learner to practice and take self-tests. The content has been developed with Tamil voice over and will cover Basics of Computer, Windows, Emailing and Internet, MS Word and MS Excel. These digital skills will enable the community to participate in eGovernance, eHealth, eEducation programmes. The content will also have English voice over, in addition to the Tamil voice over.

The digital literacy project can also be extended to students and faculty members who would benefit from the project. Parents and people from the community too can be trained in digital literacy. The training could be conducted at the centres (institutions) who volunteer to be part of this initiative at times when their PCs are free and could be made available for use by the community. The Master Trainers at the centres (institutions) will be trained by INDISS and will also be provided with all resources needed for providing successful training. Faculty members and students of the IEEE student branches can volunteer to support the programme.

This project eventually will benefit a section of rural population and can be a corporate social responsibility (CSR) initiative of various institutions.

For more details on how to go about partnering with this digital literacy project, please contact Mr. H.R. Mohan, Chairman, IEEE CS Madras Chapter at [hrmohan@gmail.com](mailto:hrmohan@gmail.com) or Mr. K.B. Sridhar, Chief Executive, INDISS at [sridhar@indiss.co.in](mailto:sridhar@indiss.co.in)

### Certificate of Appreciation



IEEE hereby expresses its appreciation for  
Notable Services and Contributions  
towards the advancement of  
IEEE and the Engineering Professions

to  
H R Mohan  
Chair

Computer Society  
Madras Section  
2008



Harold L. Fischer  
Vice President, Technical Activities

Joseph V. Lillie  
Vice President, Member and Geographic Activities



*Announcement & Call for Papers*

**ICOGCAC'09**  
**First International Conference on**  
**GLOBAL COMPUTING AND COMMUNICATIONS**  
**9 – 11, December 2009**

*Organized by*  
**Faculty of Computing Sciences**  
**Hindustan University, Padur, Chennai, India**

*Supported by*  
**IEEE Computer Society — Madras Chapter**  
**IEEE Communications Society — Madras Chapter**  
**Computer Society of India — Div II & Div IV**

**About the conference:** **ICOGCAC'09** will bring together national and international researchers to present papers and discuss on current research and development in various areas, like, networking and mobile communications, high performance computing, data base technology and software engineering. Since, it is clear that computers and workstations do not exist as standalone entities but communicate with other similar equipment globally; special emphasis is given to related technology tracks leading to Global Convergence. This conference is expected to be conducted once in two years, with the selected papers published in the conference proceedings. The conference activities will include tutorials on cloud computing, IT for health sector, green computing and mobile computing. Doctoral Symposium is being deliberated as well, for providing separate stage for Scholars, who would like to present papers for the purpose of pursuing their PhD program. We welcome the academicians, researchers, industrial personnel and others who are interested to be a part of this conference, while enjoying the scenic beauty of Tamil Nadu and its high cultural heritage and the hospitality at Padur.

**Call for papers:** We invite original papers describing new research, applications, covering technical and other areas, related to the conference. Papers will be selected on the basis of originality, relevance to the conference and quality of presentation. All papers will be reviewed by at least three members of the program committee. Authors of selected papers are expected to personally attend the conference and present the paper at their own cost. Selected papers will be recommended to be published in IEEE & CSI journals. All papers, not more than 6 pages in 2 column format with 10 point font in pdf format must be submitted by email at [cse@hindustanuniv.ac.in](mailto:cse@hindustanuniv.ac.in). We also invite proposals for tutorials in addition to what have been indicated.

**Important dates:** Full Paper Submission: 31<sup>st</sup> Aug 2009; Paper Acceptance Notification: 26<sup>th</sup> Sep 2009; Camera-Ready Copy Submission: 2<sup>nd</sup> Nov 2009; Conference Dates: 09 -11, Dec 2009.

**For details,** email at [cse@hindustanuniv.ac.in](mailto:cse@hindustanuniv.ac.in) OR visit the website at [www.hindustanuniv.ac.in/ICOGCAC09](http://www.hindustanuniv.ac.in/ICOGCAC09)

**Programme Fee**

Delegates / Participants	CSI/IEEE/ACM Members			Non Members		
	Industry	Academic	Students	Industry	Academic	Students
From India	INR 3000	INR 2500	INR 1500	INR 4000	INR 3000	INR 2000
From Abroad	US\$ 250	US\$ 200	US\$ 150	US\$ 300	US\$ 300	US\$ 200

**For Further Assistance, pl. contact:**

**Dr. M.Roberts Masillamani**, Conference Chair-ICOGCAC'09, Hindustan University, P.B No: 1, Rajiv Gandhi Salai, Padur, Chennai-603103, Phone: 044-27474395 / 252; Fax: 044-27474208. [deancs@hindustanuniv.ac.in](mailto:deancs@hindustanuniv.ac.in)

**Prof. Abbas Jamalipour**, Group Head, Wireless Networking, School of Electrical and Information Engineering, University of Sydney. [abbas@ee.usyd.edu.au](mailto:abbas@ee.usyd.edu.au)

**Mr. H.R. Mohan**, Chairman, IEEE CS-Madras Chapter. & CSI Div II (Software) [hrmohan@gmail.com](mailto:hrmohan@gmail.com)

**Dr. C. R. Chakravarthy**, Chairman, CSI Div IV (Communications & Security). [drchakra32@gmail.com](mailto:drchakra32@gmail.com)

**IEEE's 125<sup>th</sup> Anniversary Celebrations - 2009**  
27<sup>th</sup> August 2009

**Program Schedule**

08.30 Hrs	Registration, Welcome Drinks	
09.30	Invocation	
09.35	Welcome Address	<b>Dr. S. Salivahanan</b> Chairman, IEEE Madras Section
09.45	Introduction of the Vice Chancellor	<b>Dr. T. Thyagarajan</b> Secretary, IEEE Madras Section
09.50	Inaugural Address	<b>Dr. P. Mannar Jawahar</b> Vice Chancellor, Anna University Chennai
10.00	Introduction of IEEE President	<b>Dr. P. Suresh Chander Pal</b> Chair, SAC Madras Section
10.05	Presidential Address	<b>Dr. John Vig</b> IEEE President
10.15	Felicitation & Awards	
11.00	Vote of Thanks	<b>Dr. Amitava Das Gupta</b> Vice Chair, IEEE Madras Section
11.05	Refreshment	
11.30	Invited lecture : "Towards Technology Leadership in Wireless Communication"	<b>Prof. Ashok Jhuunjhuwala</b> Department of Electrical Engg. IIT Madras
12.15	Invited lecture : "Technologies for Sustainable Development"	<b>Dr. M. Anandakrishnan</b> Chairman, IIT Kanpur & Science City, Chennai
13.00	Lunch	
14.00	Activities by Students	<b>Dr. Mini S. Thomas</b> Co-ordinator, R10 SAC
14.30	Interactive Session(Quiz for Students)	<b>Dr. P. Suresh Chander Pal</b> Chair, SAC Madras Section
15.00	IEEE WIE & GOLD Affinity Groups Activities	<b>Mrs. Ramalatha Marimuthu</b> Co-ordinator, R10 WIE
15.30	Tea	<b>Mr. S. Elangovan</b> Vice Chair, GOLD Madras Section
16.15	Cultural Program	



Celebrating 125 Years  
of Engineering the Future

**IEEE Madras Section**

*cordially invites you to the*

**IEEE's 125<sup>th</sup>  
Anniversary Celebrations - 2009**

*on Thursday, the 27<sup>th</sup> August 2009 at 9.30 a.m*

*at*

Rajam Hall, MIT Campus, Anna University Chennai  
Chromepet, Chennai- 600044.

*Inaugural address by*

**Dr. P. Mannar Jawahar**  
Vice Chancellor, Anna University Chennai

*Presidential address by*

**Dr. John Vig**  
IEEE President

**Dr. T. Thyagarajan**  
Secretary, IEEE Madras Section

**Dr. S. Salivahanan**  
Chairman, IEEE Madras Section

Program overleaf

## Forthcoming Events

### National Workshop on Software Reliability & Testing:

31st Jul & 1st Aug 2009, Chennai. Contact: E-mail: mohanas@ssn.edu.in OR joelouisi@ssn.edu.in Web : [http://www.ssn.edu.in/IT\\_Workshop/home.html](http://www.ssn.edu.in/IT_Workshop/home.html)

**NACLIN 2009: 12th National Convention on Knowledge, Library and Information Networking:** 22-25 September 2009, Chandigarh. E-mail: hkkaul@gmail.com Web: [www.naclin.org](http://www.naclin.org)

**ICGCAC 09: International Conference on Global Computing and Communications:** 9 – 11, December 2009, Chennai. Contact: E-mail: deancs@hindustanuniv.ac.in Web: [www.hindustanuniv.ac.in/ICOGCAC09](http://www.hindustanuniv.ac.in/ICOGCAC09)

**CONSEG 09: International Conference of Software Engineering:** 17-19, Dec 2009, Chennai. Contact Email: gopalswamy\_ramesh@yahoo.com Web: [www.csi-chennai.org/conseg09](http://www.csi-chennai.org/conseg09)

**International Conference on Millennium Developmental Goals: The Role of Information and Communications Technologies:** 27-29 December 2009, Chennai. Contact: E-mail: mdgict@rmk.ac.in Web: [www.rmkec.ac.in/mdgict](http://www.rmkec.ac.in/mdgict)

**International Conference on Wireless Communication and Sensor Computing:** 02 -04, January 2010, Chennai. Contact: E-Mail: icwsc2010@ssn.edu.in Web: [www.ssn.edu.in/icwsc2010](http://www.ssn.edu.in/icwsc2010)

## Invitation to exhibitors to put up stalls at IEEE's 125th Anniversary Celebrations - 2009

IEEE Madras Section is celebrating the IEEE's 125<sup>th</sup> Anniversary on Thursday, 27<sup>th</sup> August 2009 at Anna University, M.I.T. Campus, Chromepet, Chennai.

Dr. John Vig, President, IEEE will be joining us on that day and deliver the presidential address. Dr. P. Mannar Jawahar, Vice Chancellor, Anna University Chennai will be the Guest of Honour and will inaugurate the function which has events for the whole day.

Interested exhibitors are invited to put up exhibition stalls at the venue for the whole day. This will be a unique and memorable opportunity to showcase your products and services to the largest professional association of engineering community in the world.

Each exhibitor will be allotted 150 sq.ft space for exhibition at a nominal rate of Rs. 100 per sq.ft. Allotment of exhibition space will be on first-come-first-served basis.

Please hurry up and contact IEEE Madras Section Office at Ph: 044-24423939, Mobile: 9382328776, E-mail: [ieeemas@airtelmail.in](mailto:ieeemas@airtelmail.in) OR Mr. T.S. Rangarajan, Mobile: 9821002643, E-mail: [ranga@ieee.org](mailto:ranga@ieee.org)

## Visit our Website

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

Posted On : 24<sup>th</sup> July 2009

Posted at: Egmore RMS (Patrika)

FROM:



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TO: