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**Vol. 10 No. 6 June 2013**

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## Message from Chairman



Dear Members

You must already be aware that Madras Section has won the bid to host the All India Students Congress (AISC) 2013 during Sept 13-15, 2013.

Additionally we have also won the bid to host the Region 10 Humanitarian Technology Conference (R10 HTC) during August 6-9, 2014. The R10 HTC 2013 is being held in Sendai, Japan during August 26-29, 2013.

While we have organized AISC and INDICON (congress and conference of India Council) earlier, it will be the first time that we will be organizing a Region 10 conference in our Section.

In my view, bidding, organizing and participating in such important events are critical learning opportunities for all our members – students, faculty, researchers and industry folks. It helps us keep abreast of latest developments in our respective fields, network with peers in our areas of specialization and enhance our individual and collective profiles globally.

We are taking all efforts to ensure that information about such initiatives and opportunities is circulated to all members on time to enable them to host, co-sponsor, participate and volunteer. I am indeed happy to report that many institutions and student branches are responding well to such opportunities. It would be our continuous endeavor to engage all of you in such events and activities and create specialties based networks of members to bid for future events and conferences. We are always on the lookout for volunteers who are interested, available and possess the requisite skills and capabilities to contribute to such initiatives.

While we are continuously progressing to establish Madras Section as a large and important organizational unit of IEEE at the Region 10 and Global levels, it pains us to know that some members are widely circulating false and unsubstantiated information through emails. Such distractions will sap our energy and motivation to contribute to the progress of our section. All of us in the executive committee are volunteers devoting our skills, capabilities, time and effort to work for the section. We are auditable and accountable to IEEE MGA (Member Geographic Activities) and IEEE Region 10. Our financial records are independently audited and returns such as L50 and L31 reports are regularly submitted to IEEE and the Section AGM. We are registered under the Societies Registration act 1860 and have a PAN card. A large number of members have been anguished at these emails and are demanding suitable action against the people indulging in such activities. Through this column I wish to assure all members that as a responsible executive committee, we are determined to respond appropriately to such distractions.

Till next time,

Yours voluntarily  
T.S. Rangarajan  
[ts.rangarajan@gmail.com](mailto:ts.rangarajan@gmail.com)

## Message from the Editor



**H.R. Mohan**

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While we have received some feedback appreciating the electronic edition of our Madras Section newsletter IEEE MAS LINK, it is heartening to note that so far no negative feedback has come. As indicated in the last issue, the changeover is resulting in a significant cost saving to fund other activities. While the May issue of LINK was of 22 pages, the current June issue will be of 9 pages. This is due to the fact that activity level was low because of the academic year end and examinations. This will be trend in July also. This flexibility of producing an issue of variable page count was possible as we are in digital mode as print editions pose constraints. We are still experimenting with the digital edition of our newsletter and there is scope for improvement. Pl. provide your feedback along with suggestions for improvement. We are also interested in having some serious volunteers for the newsletter. Those interested, may pl. email to [hrmohan.ieee@gmail.com](mailto:hrmohan.ieee@gmail.com)

LINK is very happy to share the news that All India Student Congress for the year 2013 will be held in our Madras Section. While over 10 SBs communicated their expression of interest to host AISC-2013, Amrita School of Engineering, Coimbatore, one of our active SBs has been selected to host this event in Sep 2013. Look forward to formal announcements.

Similarly, our Section is proud to announce that it will be hosting the Region 10 Humanitarian Technology Conference (R10 HTC) during August 6-9, 2014. It may pl. be noted that this will be first time that an R10 event is being hosted by our Section.

In this issue of LINK, we have published brief report on the Faculty Development Programme on “Embedded System and its Applications to Power Systems, Power Electronics” along with the SB activities of National Engineering College -- SIPRO-13: National Level Technical Project Expo, M. P. Nachimuthu M. Jeganathan Engineering College, Sri Muthukumaran Institute of Technology -- E-Health White Paper Contest, and Adhiparasakthi Engineering College -- International Conference on Computation of Power, Energy, Information and Communication.

We draw the attention of our readers to the various announcements made and request them to get benefited.

Globally, many technological innovations are taking place. A regular reading of the newspapers and browsing the websites of IEEE and sites dealing with technology reporting will be very useful to most of our readers who are the students, the architects of the future India. Few items of interest include:

The single-seater, solar-powered Solar Impulse aircraft which runs on four electric propellers powered by 12,000 solar cells mounted on the plane's 63-meter wingspan landed smoothly in the dark at Dulles International Airport near Washington DC.

It is predicted that by 2030, India's water supply deficit will be 50% and will eventually make India as a “water stressed” region. Information Technology will play a major role in solving this problem. What IT brought to banking in the 1990s, it is now poised to bring a similar though less visible revolution to utilities around the world, be it water, energy, gas, waste management or public transportation. It has been reported that an Intelligent Operations for Water (IOW) solution, has resulted in a saving of 3,409 gallons of water per year per household in the City of Dubuque and in Miami-Dade County, it has resulted in a saving of \$8,60,000 per year from pro-active management of resources.

LINK will be happy to receive from members on such interesting developments to be share with other readers through a new column in the newsletter MAS LINK.

The June 2013 issue of the India Council newsletter IEEE India Info that has few interesting articles, book reviews, TechQuiz, List of Forthcoming events etc., has already been released and the information has been made available to all our Section members too. Pl. access it at <http://goo.gl/PvIR1>

## Faculty Development Programme on “Embedded System and its Applications to Power Systems, Power Electronics”



The IEEE Madras Section in association with IEEE SB of Arunai College of Engineering, Thiruvannamalai organized a Faculty Development Programme (FDP) on “Embedded System and its Applications to Power Systems, Power Electronics ” on 31<sup>st</sup> May and 1<sup>st</sup> June 2013. This was the 24<sup>th</sup> FDP in a series of programs aimed at improving the quality of teaching in Engineering Colleges in Tamil Nadu.

This FDP was attended by 41 faculty members of colleges and universities from all over Tamil Nadu. The coordinators of the program were Dr. N. Kumarappan, Professor of EEE, Annamalai University and IEEE Madras Section Educational Activity Chair, Treasurer, Execom Member; Dr. T. S. Sivakumaran, Dean (PG Studies), Arunai College of Engineering and Prof. J. S. Sathiyarayanan, Professor and Head of EEE, Arunai College of Engineering.

The Programme was started with an inaugural function. Dr. E. V. Kamban, Managing Director, Arunai College of Engineering has presided over the function. Dr. N. Kumarappan, delivered the inaugural address.

The resource persons for this FDP were: Dr. N. Kumarappan, Professor of Electrical Engineering, Annamalai University; Dr. S. Poornima, Principal, Hosur Institute of Technology; Dr. S. Sharmila, Professor of EEE, CEG, Anna University, Chennai; Dr. T. S. Sivakumaran, Dean (PG Studies), Arunai College of Engineering.

The topics covered include: Embedded applications in power electronics -- Introduction to embedded systems, Need for embedded systems, Designing of microcontroller based embedded system for motor control, Designing of FPGA based embedded system for motor control, A hybrid concept for real-time embedded systems controlling power electronics applications, Hybrid electric vehicle applications and electric traction. Embedded applications in power systems -- Designing of embedded system controllers for electric systems, Power control, Power inverters, Embedded operating systems for real time applications, Dynamic power management in an embedded system.

At the valedictory, Mr. R. Selvaraj, Secretary, Arunai College of Engineering distributed the Certificates to the participants. The FDP received an excellent feedback from all the participants and provided an opportunity to listen to the experts.

*Report by: Dr N Kumarappan, [kumarappan\\_n@hotmail.com](mailto:kumarappan_n@hotmail.com)*

## National Engineering College

### SIPRO-13: National Level Technical Project Expo



The IEEE SB had organized a National Level Technical Project Expo on 15<sup>th</sup> Feb 2013 with Dr. V. Suresh Kumar, Associate Professor, Dept. of EEE, Thiagarajar college of Engineering, Madurai as the chief guest. He inaugurated the expo in the presence of Mr. K. R. Arunachalam Member, Managing Committee, Dr. Chockalingam, Director, Dr. Subburaj, Principal, and Dr. M. Willjuice Iruthayarajan, SB Convener & HOD/EEE. The chief guest in his speech said that the budding engineers should improve their practical knowledge in order to make India a developed country by 2020. He also said that they should also participate in such events to improve their practical skills.

On the first day of the expo, 25 projects from various colleges from Tamil Nadu were exhibited and on the second day, 58 projects in-house projects were exhibited to expose their project ideas to the students. While the students from Mepco Schlenk Engineering College, Sivakasi received the first prize, the second and third prizes were bagged by the students of National College of Engineering, Maruthakulam.

The expo was coordinated by the staff coordinators Mr. Vimal, Ms. Shyamala Gayathri and the arrangements were done by the SB Chairman R. Shylin Babu, Joint Secretary S. M. S. Annamali Samy, and student members of IEEE.

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## M. P. Nachimuthu M. Jeganathan Engineering College

### Valedictory Function



The Valedictory function of the Association of Electrical and Electronics Engineering Department was held on 16<sup>th</sup> Apr 2013. Dr. S. Padma, Professor, EEE Department, Sona College of Technology, Salem was the chief guest. The college correspondent Tmt. Vasantha Sudhanandhen, in her presidential address, insisted the emerging engineers to enthusiastically participate in all the Association activities and show up their multi talents. In his felicitation address, Dr. S. Muthu, principal spoke on the significance of the students in being well planned and united in carrying out the association activities.

Chief Guest, in her address, explained about flexible alternating current transmission system and its application in electrical power systems. Also, she insisted the students to develop their communication skills through proper plan. In the Valedictory function, the correspondent Tmt. Vasantha Sudhanandhen distributed the placement orders to the final year students.

Report by: D. Sabapathi, [esec74@yahoo.co.in](mailto:esec74@yahoo.co.in)

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## TITBITS

- Madhya Pradesh doctor invents 'suicide-proof' ceiling fan: <http://goo.gl/ESULi>
- What is keeping India's engineers unemployed: <http://goo.gl/5T8v6>
- 2 supercomputers from Pune in world's fastest 100: <http://goo.gl/e9OzE>
- Soon, 3D-printed batteries for your smartphones: <http://goo.gl/7ogyf>
- Use your smartphone to find misplaced keys: <http://goo.gl/5guQN>



## Sri Muthukumaran Institute of Technology

### E-Health White Paper Contest

Health is the best wealth one can possess. With an aim of raising awareness on healthiness IEEE Computer Society SMIT has organized E-Health: White Paper Contest on the theme "How to make a Healthy World", since there is an imperative need for the today's world to be health conscious and to lead healthy life style. The event was on track from 7<sup>th</sup> Apr 2013 to 14<sup>th</sup> Apr 2013. The contest was open for both members and non-members. Participants showed significant interest in this contest and many innovative ideas for creating the healthy world were put forth as an abstract by them. The abstracts were analyzed and the best ones were presented with merit certificates.

Report by: Divya Sethu, [divyasethu@computer.org](mailto:divyasethu@computer.org)

## Adhiparasakthi Engineering College

### International Conference



A two days international conference on Computation of Power, Energy, Information and Communication was organised on 17<sup>th</sup> & 18<sup>th</sup> April, 2013. Mr. K.V. Rupchand, Chairman, IEEE Power and Energy Society inaugurated the conf. Dr. R. Vigna Kumaran, Associative Professor, University Tenaga Nasional, Malaysia felicitated. Dr. Jeyraj A/L Selvaraj Associative Professor, University of Malaya, Malaysia, delivered the keynote address. Dr. V. Ramaswamy, Dean & Chairman, ISTE local chapter member & Dr. J. Baskaran, HOD participated in the inaugural session.

## In Lighter Sense: How to sell - Interesting one...

The Manager says: "Do you have any sales experience?"

The Indian says: "Sir, I was a salesman back home in India."

Well, the boss liked the Indian chappie so he gave him the job.

"You start tomorrow.. I'll come down after we close and see how you did."

His first day on the job was rough but he got through it.

After the store was locked up, the boss came down.

"How many sales did you make today?"

Rocket Sing says: "Sir, Just ONE sale."

The boss says: "Just one? No! No! No! You see here our sales people average 20 or 30 sales a day." If you want to keep this job, you'd better be doing better than just one sale. By the way, how much was the sale for?"

Rocket Sing says: " \$101 237. 64"

Boss says: "\$101 237. 64? What the hell did you sell?"

Rocket Sing says: "Sir, First I sell him small fishhook. Then I sell him medium fishhook. Then I sell him large fishhook. Then I sold him new fishing rod and some fishing gear. Then I ask him where he's going fishing and he said down on the coast, so I told him he'll be needing a boat, so we went down to the boating department and I sell him twin engine Chris Craft. Then he said he didn't think his Honda Civic would pull it, so I took him down to our automotive department and sell him that 4X4 Blazer. I then ask him where he'll be staying, and since he had no accommodation, I took him to camping department and sell him one of those new igloo 6 sleeper camper tents. Then the guy said, while we're at it, I should throw in about \$100 worth of groceries and two cases of beer.

The boss said: "You're not serious? A guy came in here to buy a fishhook and you sold him a boat, a 4X4 truck and a tent?"

Rocket Sing says: "No Sirji, actually he came in to buy Anacin for his headache, and I said: Well, fishing is the best way to relax your mind."

## Announcements

### Support to attend R10 Student/GOLD/WIE Congress – 2013

IEEE Madras Section is pleased to sponsor/support the following TEN to attend The IEEE R10 10 Student/GOLD/WIE Congress 2013 being hosted by IEEE Hyderabad Section at Hyderabad during 11-14, Jul 2013.

- Nivas Ravichandran, Jeppiaar Engineering College
- Hari Krishnan M M, Gold Member
- Arun Noel Victor, Jeppiaar Engineering College
- Salma Saithoon A, Jeppiaar Engineering College
- Fathima Hathoon Nargis A, Jeppiaar Engineering College
- Jinesh C, Graduate Student Member, Rmk Engineering College
- Prasanth M, Sri Muthukumaran Institute of Technology
- Vikash Koushik S, Sri Muthukumaran Institute of Technology
- Wafa Waheeda S S, Jeppiaar Engineering College
- Sree Raksha S P, Jeppiaar Engineering College

A presentation will be made by these attendees on their return from the R10/S/G/W Congress -2013

### 25th Faculty Development Programme

Title : Advanced VLSI Design  
Date : 2-3, Aug 2013  
Venue : Muthayammal Engineering College, Rasipuram  
Contacts : Dr. N. Kumarappan, Mobile: 9942055263, Email: kumarappan\_n@hotmail.com  
: Dr. S. Nirmala, Professor and HoD/ECE, Muthayammal Engineering College  
Ph: 04287-226837, 220837, Email: metmec@gmail.com

### CFN for 2012 R10 WIE Section/Student Branch Affinity Group of the Year Award

The R10 IEEE Women in Engineering (WIE) takes initiatives to provide various values for IEEE members and societies in Asia Pacific Region (R10) and promote achievements of women engineers/professionals. For this purpose, R10 WIE strongly supports and encourages WIE activities conducted by WIE Affinity Groups in R10.

Specifically, R10 WIE committee selects excellent activities and gives R10 WIE funds for them. R10 WIE also highlights outstanding WIE Affinity Groups in R10 and presents R10 WIE Section/Student Branch Affinity Group of the Year Award to them.

R10 Women in Engineering (WIE) has promoted both the IEEE R10 WIE Section Affinity Group of the Year Award and the IEEE R10 WIE Student Branch Affinity Group of the Year Award for highlighting distinguished WIE Section Affinity Group and WIE Student Branch Affinity Group respectively.

The awards are based on programs that took place during the period of 1 January to 31 December of the preceding year.

- Call for Nominations – May 2nd week
- Nomination Deadline – July 5th
- Recipient Notified – End of August

Nominations must be sent to IEEE R10 WIE Coordinator by the end of June in electronic means (pdf file) or Fax.

Prof. Takako Hashimoto  
IEEE R10 Women In Engineering Coordinator  
[takako@cuc.ac.jp](mailto:takako@cuc.ac.jp), Fax: +65 6778 9723

### **Host section for R10-HTC2014**

For the first time Madras Section has won an opportunity to host an R10 conference. Dr B. Sowmya, HOD / ECE, Dhanalakshmi College of Engineering, offered to be the technical partner for the conference which was very timely for us to submit the proposal. Anand B, SIGHT Coordinator of Madras Section, who was also associated with our earlier bids for TENCON 13, 14 and Spring led this proposal. I request each one of you to help in the successful organisation of this conference so that winning future bids becomes easy. -- T.S. Rangarajan, Chair, IEEE Madras Section, 2013

### **Call for Proposals for 2013 R10 Section, Subsection and Chapter Support Fund**

IEEE R10 Section, Subsection and Chapter Committee invites you to submit proposals to bid for 2013 Section, Subsection and Chapter support fund for section of chapter leadership and social activities.

Objectives:

- Promote more activities in sections and chapters with financial support from region.
- Strengthen the operation of sections and chapters operations and activities.
- Provide more activities for the community in order to make IEEE more visible.
- Ensure the quality of operation and leadership ability sections and chapters.

#### ***Project Categories***

1. Leadership Seminar/Training/Workshop: Sections and chapters may invite distinguished resource persons to give seminar, training or workshop that will enhance the leadership and management abilities of its members.
2. Family Day: Members of different sections and chapters are encouraged to meet for social gatherings. They may also include their spouses, children and family members in order to extend the IEEE community in the home of its members.
3. Sports Competition: Sections and chapters members may organize a special event for sports activities like basketball competition, fun run, bowling competition, badminton tournament, etc.
4. Community Involvement Activity: Sections and chapters may organize an activity for community involvement such as tutorials for children, field trips in underdeveloped communities, research application for underdeveloped communities, and help directly the calamity stricken areas.

#### ***Proposal Condition***

R10 Section, Subsection and Chapter Committee will provide support fund to carry out the activity in partnership with respective sections, subsections and chapters which aims to promote and strengthen them through leadership and social activities for its members and the community.

- The R10 fund (SSBR) is targeted at activities from September. 2013 to Dec. 2013.
- The proposal forms must be completed by proposer and endorsed by the Section Chair.
- In the proposal form, the proposer information, the proposal information, the budget plan and the requested budget (\$300 to \$700) should be specified. The proposal should be also duly endorsed by the Section Chair. (Signature of the Chair)
- R10 Section, Subsection and Chapter Committee provide part of the cost of the activity (\$300 to \$700) in each case. Part of the cost of the activity must be borne by the respective section or any other sources.
- Proposal must be submitted to the IEEE R10 Section, Subsection and Chapter Committee Chair no later than the end of June in electronic means. Please make sure that an acknowledgement is received after sending the proposal within 7 working days, or it should be assumed that the submission is not received.
- After the end of program, proposer has to submit the result report according to the general guideline for the R10 Newsletter and the final financial report for the activity. The report should be sent within 2 weeks after the activity.

- The result report would be published in the R10 Newsletter.
- After confirming the result report and the financial report, R10 Section, Subsection and Chapter Committee will start the fund transfer process.

**Limit of support for each proposal:** \$300 to \$700

**Schedule:** Call for Proposals -- Early April; Proposal Deadline -- June 25, 2013

**Proposals Submitted to:** Prof. Elmer P. Dadios, IEEE R10 Sections and Chapters Chair, Email: [dadiosieee@gmail.com](mailto:dadiosieee@gmail.com) or [elmer.dadios@dlsu.edu.ph](mailto:elmer.dadios@dlsu.edu.ph)

### IEEE Job Site Career Alert

It delivers a free bi-weekly e-mail report on jobs, education, management, and the engineering workplace from the editors of IEEE Spectrum. Subscribe it at [http://careers.ieee.org/subscribe\\_alerts/subscribe.html](http://careers.ieee.org/subscribe_alerts/subscribe.html)

### M V Chauhan All India Student Paper Contest – 2013

- Important Dates: Last date of Full paper submission: 15<sup>th</sup> July 2013; Review Process: 15<sup>th</sup> July to 20<sup>th</sup> August 2013; Prize declaration: 25<sup>th</sup> August 2013
- Prizes: First: Rs. 6000; Second: Rs. 4000; Third: Rs. 3000. The first authors of the top three papers will be invited for presentation. The date and at the place will be announced later.
- For more details, pl. see the June 2013 issue of the India Council Newsletter at <http://ieeecs-madras.managedbiz.com/icnl/1306/index.html>

### IEEE Madras Section membership status as on 1<sup>st</sup> June 2013

|                         |             |
|-------------------------|-------------|
| Affiliate               | 9           |
| Associate Member        | 54          |
| Fellow                  | 2           |
| Graduate Student Member | 1190        |
| Life Fellow             | 2           |
| Life Member             | 4           |
| Life Senior             | 10          |
| Member                  | 1288        |
| Senior Member           | 118         |
| Student Member          | 4868        |
| <b>Total</b>            | <b>7545</b> |

*For Private Circulation*

## IEEE MAS LINK

Newsletter of the IEEE Madras Section  
Vol. 10 No. 6 :: June 2013

*Editorial Team*

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