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**Vol. 10 No. 5 May 2013**

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## Message from Chairman



Dear Members

This past month saw many proposals being submitted for WIE funds, SIGHT projects, 2013 All India Students Congress and so on. This month has also been a rather hectic one for students and teachers alike – pressure of course completion, exams, extra time due to the March end unscheduled break and so on. In spite of all this busy schedule, it is heartening to note that our members have risen to the challenge and not only conducted many events but also submitted many proposals.

For one of the largest sections I think we can do more. What it needs is to be aware of the opportunities, the deadlines and a plan to participate in these opportunities. Most of these opportunities are announced well in advance with sufficient notice to respond. But I find that barring a few teams who are well organized, the rest of the people are almost invisible.

There are a few best practices that I have observed among the successful participants in IEEE activities and awards.

- a. They are a team and not just individuals.
- b. They are well connected through social media which makes them instantly aware of available opportunities
- c. Where the activity belongs to a member, they also co-opt student members for help
- d. By participating in many activities regularly, they have created reusable collateral which enables them to respond faster
- e. They have developed a network of members from other IEEE OUs which helps them to obtain competitive intelligence for their own activities
- f. They are relentless in their pursuit of the projects and awards

IEEE offers a unique opportunity for each one of us to learn and practice team working and collaboration skills in professional activities. For students, it is a great learning experience which can contribute enormously to their professional success. For members it is a platform to develop useful networks for their individual initiatives. By actively participating in the projects, awards and other opportunities offered by IEEE one can get enriched both professionally and personally.

All IEEE projects and awards are aligned to the mission of IEEE – Advancing Technology for Humanity. Participation in these activities can bring additional satisfaction of serving humanity in our own way.

As we create more teams across our geography, our ability to bid for bigger and bigger events within IEEE – such as R10 meeting, IEEE Conferences etc., will grow, thus realizing our achievements commensurate with our size. That is our dream. I am sure it will come true very shortly.

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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Dear Friends,

For quite some time, we had deliberated on IEEE MAS LINK going digital from print. As over 87 percent of our members, in the recent survey carried out, have voted in favour of MAS LINK going electronic, from May 2013 issue onwards, MAS LINK will be in electronic form in line with the India Council and R10 newsletters. While this change over to digital edition from print edition is not just a green initiative, it also facilitates significant cost savings resulting in additional funding opportunities for our projects. Further, the presentation could be in colour – till now our newsletter was printed in black & white with no restriction on no. of pages. The major relief for me as Editor is that I could accommodate all the reports received from the IEEE OUs in our Madras Section. I need not be apologetic in future. While the format of presentation can be improved over a period of time, I am sure that our readers will relish the change from B&W to colour and will be happy to see all their reports being covered. 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)

Our Section chairman, in his message has outlined few best practices followed by successful participants of IEEE activities which can be adopted by others so that many of our SBs could participate, organise many events and also win in them.

This month LINK, presented in 22 pages, has reports on events held at the following SBs along with the reports on the Robotics Workshop by IEEE RAS, Awareness Camps and Face to Face meeting organised by the IEEE Madras Student Network, Student Skill Development Programme on “Artificial Intelligence Methods in Engineering, IEEE SIGHT’s orientation and humanitarian field work, IEEE OES, India Council’s representation by Dr. Atmanad at the 8th International Symposium on Underwater Technology 2013 at Japan, Participation of Dr. N. Kumarappan, EA Chair at IEEE SSCI 2013 at Singapore and Activities of IEEE Computer Society, Madras Chapter during Jan – Apr

2013, IEEE Code of Ethics and some announcements including free eBooks from IEEE-USA.

- PSNA College of Engineering and Technology
- Sri Krishna College of Engineering and Technology
- K. S. Rangasamy College of Technology
- Karunya University
- Sri Muthukumaran Institute of Technology
- VMKV Engineering College
- Adhiparasakthi Engineering College
- St. Xavier's Catholic College of Engineering
- Kongu Engineering College
- Francis Xavier Engineering College
- Velammal College of Engineering & Technology
- Kalasalingam University
- Jayaram College of Engineering & Technology
- Thangavelu Engineering College
- Valliammai Engineering College
- Chennai Institute of Technology
- Sri Eshwar College of Engineering
- Aarupadai Veedu Institute of Technology
- M.P.Nachimuthu M.Jeganathan Engineering College
- SSN College of Engineering
- Jeppiaar Engineering College
- Kingston Engineering College
- Sri Ramakrishna Engineering College

We draw the attention of our readers to the availability of Dr. San Murugesan, from Australia as a Distinguished Visitor of IEEE Computer Society for presenting DLPs at the Section, Chapter and SBs. Pl. make use of the opportunity.

For the forthcoming events list, pl. visit

<http://goo.gl/nVt7Y>

Pl. encourage your colleagues and friends to become members of IEEE & technical societies at 50% fee but with benefits for 7 months. Combined membership for students membership is available for IEEE & IEEE CS at USD 20/=

## IEEE RAS Madras Chapter: Robotics Workshop



The IEEE RAS Madras chapter organized a one-day workshop titled “Robot and its Techniques of Autonomous Vehicle Design”, with the technical coordination with Lema Labs on 15<sup>th</sup> Mar 2013 at IIT Madras. Mr. P A Manoharan, Robotic & Automation Society (Chair) welcomed the gathering. Dr. G V Rao, Managing Director Rowsons Marketing Pvt., Ltd., inaugurated the session and explained the ethics of robotics. Dr. K Sridharan, Robotics & FPGA based design, IIT, Madras, in his presidential address briefed about the evaluation of robots and its technology. In the keynote address, the chief guest T.S. Rangarajan, IEEE Madras Section (Chair) highlighted the current trends in robotics and its applications in industries.

The workshop sessions started with the introduction of robotics by Mr. P A Manoharan, followed by Lema Labs hardware demos of simple robots, line follower robot, obstacle avoider robot and tabletop robot. Explanations and live demo was provided by Mr. Kedar Kulkarni, Mr. Gokul Chandra sekaran and Mr. Zaheer N of Lema Labs. Theoretical presentation and the concepts of serial communication, computer controlled robot, mobile controlled robot and applications of control systems were briefed. In the afternoon session, advanced technologies such as computer vision and its implications in the field of advertising, media and publishing were explained. At the valedictory function, Dr. L S Ganesh, Dean (Students) & Dept. of Management Studies, IIT, Madras spoke and Mr. K.V. Rupchand, Secretary of RAS proposed the vote of thanks.

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## PSNA College of Engineering and Technology

### SDIP-2013: Fourth National Conference on “System Design and Information Processing”



The Department of Biomedical Engineering organized the fourth national conference on “System Design and Information Processing” on 22<sup>nd</sup> Mar 2013.

Dr. M. Mukunda Rao, Professor, Department of Medical Electronics, MS Ramaiah Institute of Technology, Bangalore (Former Professor- IIT, Madras) was the chief guest and gave an informative talk on “Design and Development of cost effective

Photoplethysmograph, Thermistor based Neonatal Apnea Detector”. He encouraged the students and faculty members to participate and organize conferences and seminars and to establish Centers of Excellence. He motivated everyone to apply for Intellectual Property Rights and Patents and to produce realizable cost effective products. The Guest of honor, Dr. V.N. Mani, Scientist-E, Center for Materials for Electronics Technology, Department of Electronics and Information Technology, Government of India, Hyderabad delivered a special lecture on “Advanced electronic nanomaterials and medicine”. He added a note on the threats on management of resources, electronic wastes and water which we are going to face in the future. Also explained and distinguished between what is science, engineering, technology, technology innovation, technology application and technology advancement. He

emphasized on 'Green and Clean Space' and commented that India is strong in research and should improve in development and production fields also. He shared his views about the boons and banes of nano electronics, nano biomedicine, and nano materials and also focused on the indigenous methods developed for the purification process.

The conference enjoyed a wide participation from many reputed institutions and received 340 papers, out of which 60 papers were selected for the presentation in eight different sessions. Few selected papers presented at the conference will be published in the "International Journal on System Design and Information Processing". SDIP-2013 created a good portal for establishing research potentials to hog the limelight in their chosen domains.

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## IEEE Madras Section Student Network

### Awareness Campaigns



IEEE Awareness campaigns was organized by IEEE Madras Section Student Network (MSSN) Volunteers at various student branches during the month of January, February and March, 2013.

On 21<sup>st</sup> January 2013, M.M.Hari Krishnan, Co-Ordinator IEEE Madras Section Student Network and Vikash Koushik from IEEE CS SMIT conducted an IEEE Awareness Program in **Aalim Muhammed Salegh College of Engineering, Avadi**. After a briefing by M.M. Hari Krishnan about IEEE there was an interactive session with a video on IEEE. Then Vikash Koushik spoke on the "Benefits of IEEE" and "How to form a Student Branch".

An awareness program at **Sree Sastha Institute of Engineering and Technology** was held on 27<sup>th</sup> Feb 2013. The students were introduced to the history of IEEE and its formation by Mr. Hari Krishnan. The valuable and commendable experience gained by Mr. Prasanth M and Mr. Vikash Koushik was shared in their presentation 'IEEE and Me'. The benefits of IEEE Membership were handled by Ms.Pooja Vijayaraj. In the ending note, Mr.Varun, Volunteer shared his recent exposure to Infosys, Mysore.



At **NIT, Trichy**, the awareness program was conducted as 'ECE PROBE-2013', a two days technical fest. Day 1 had a session handled by Mr.Hari Krishnan and Mr.Anand.B sharing their experience with IEEE and Mr. Anand.B panelled the paper presentation event in the fest. Day 2 Mr. Hari and Mr. Vishwas, GINI India Collaboration Platform Secretary from Bangalore section gave a brief insight about IEEE and the various benefits

it had to offer to the graduate students.

The IEEE awareness program at **Sathyabama University** was organized by Ms. Harini. V, who elaborated about the WIE affinity groups and the various funding's available for the SBs. Ms. Salma Saithoon explained about the big picture of IEEE. Later during the session Mr. Prasanth M expounded about his experience with IEEE.

Complied by: *S.P. Sree Rakshaa*, [rakshaa.sree@gmail.com](mailto:rakshaa.sree@gmail.com)



### Face to Face Meeting – 2013

IEEE Madras Section Student Network and IEEE Student Branch, Amrita School of Engineering, Coimbatore collaboratively organized the IEEE Madras Section Student Network Face to Face Meeting – 2013, from 31<sup>st</sup> March to 2<sup>nd</sup> April, 2013. The three day event was conducted to bring together IEEE members from the Madras Section under one roof to interact with each other

and gain awareness on various aspects of an IEEE membership such as its membership benefits, access to knowledge. It also enabled students to know about various technical and social activities that are being carried out by the Madras Section. Around 100 participants from around 17 colleges across Tamil Nadu had attended the event.

On Day 0 (31<sup>st</sup> March), the event started with the Ice Breaking session and setting of objectives for the meet conducted by Mr. Anand B, Vice Chair (Student Branch Networking), IEEE R10 SAC India Team and Mr. Hari Krishnan, Mentor, IEEE MSSN.

A session on IEEE – A Big Picture conducted by Ms. Harini Vasu, WIE, IEEE Madras Section Student Network Team, Analysis Manager, R10 WIE.

It was followed by a session on Cryptography by Dr. T. R. Padmanabhan, Professor Emeritus, Amrita School of Engineering. The session gave an idea to the students as to how security is being implemented in real time on websites that include online payment. The day ended with the screening of a movie.

Day 1 (1<sup>st</sup> April), commenced with inaugural ceremony with the chief guest being Dr. Ramalatha Marimuthu, Chairperson IEEE WIE. Prof. K. Gangadharan, Chairman IT Department, ASE, Prof. Prashant R. Nair, Vice-Chairman IT Dept, ASE and National Vice Chair, IEEE Educational Society, Prof. Arun Kumar, SB Counselor, IEEE Amrita Chapter, Mr. Hari Krishnan and Mr. Anand also participated in the inaugural session. Dr. Ramalatha Marimuthu, gave out an insight on the global picture of Women in Engineering. After the presentation in a Video Conference session, Mr. T. S. Rangarajan, Chairman, IEEE Madras Section inspired the young students.

The post lunch sessions were observed back to back by Mr. Anand, on Leadership, Even Management and Membership Management and on the Importance of Technical Societies in SBs.

An Introduction to Student Network and formation of Hubs by Mr. Hari Krishnan and Mr. Anand guided the student volunteers towards a different perspective. It was followed by the Success Story of Madras Section Student Network – Chennai Hub by Ms. Fathima. The day ended with a session on Soft Skills and Impact of memberships in Technical Societies by Mr. Krishna Shastri, Joint Director, Corporate and International Relations, Amrita Vishwa Vidyapeetham.



Day 3 (2<sup>nd</sup> April), started with a video conference by Mr. Arjun R Pillai, IEEE R10 SAC on motivating factors followed by a presentation on IEEE Special Interest Group on Humanitarian Technology (SIGHT) by Mr. Arun Noel Victor, Secretary, IEEE SIGHT followed by a session on spreading the awareness of Solar Power by Mr. Ramesh, Co-founder, Solarillion.

Finally, we had the future action plan being laid down by Mr. Anand which was followed by the valediction ceremony with Registrar of Amrita Vishwa Vidyapeetham as the chief guest, in which certificates were distributed to the participants and the volunteers.

*Report by: Phalgun R. Lodaya, [phalgunlodaya@ieee.org](mailto:phalgunlodaya@ieee.org)*

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## Sri Krishna College of Engineering and Technology

### NCCTIRD-2013: National Conference



The Society of Electrical and Electronics Engineering and IEEE SB had jointly organized a two day National Conference on “Communication Technology Interventions for Rural and Social Development (NCCTIRD-2013) for PG students and faculty members on 14<sup>th</sup> & 15<sup>th</sup> Feb 2013. About 35 participants from various institutions from Tamil Nadu attended the conference. Dr. L. Sivakumar, Vice Principal SKCET delivered the presidential address. Dr. N. Nirmaladevi, Associate Professor, Amrita School of Engineering delivered the keynote address on “Future trends in VLSI Technology”.

In the valedictory session, Dr. H. Mangalam, Prof. and HoD/ECE, SKCET distributed the certificates to the participants. Ms. M. Karpagam, Asst. Prof., ECE and the coordinator of the conference proposed the vote of thanks.

### **KRISNECS V.13: Technical Symposium**



The Dept. of ECE had organized a national level technical symposium “KRISNECS V.13” on 15<sup>th</sup> Mar 2013. Dr. Annadurai, Principal, SKCET presided over the inaugural function and delivered presidential address. Nearly 300 Participants from the various engineering colleges from all over Tamil Nadu participated in the symposium and events such as Paper presentation; Project presentation; and PCB designing etc.,

In the valedictory session, Dr. H. Mangalam, Prof. and HoD/ECE, SKCET distributed the certificates to the participants. Ms. M. Malarvizhi, Asst. Prof., ECE and coordinator of the symposium proposed the vote of thanks.

*Report by: Mr. Nandalal, [nandalal@skcet.ac.in](mailto:nandalal@skcet.ac.in)*

## **K. S. Rangasamy College of Technology**

### **Symposium**



The student association CAFACE (Creative Association for Adducing Communication Engineers), IEEE SB and IETE student forum of Dept. of ECE organized a national level technical symposium on 4<sup>th</sup> Mar 2013.

Mr. G. Sainarayanan, Senior Technical Leader, HCL Technologies, Chennai was the chief guest. In his address, he explained about the service companies and product companies. While the service companies provide services based on technical manpower such as TCS, HCL, WIPRO, etc, the product companies aim at patent rights, so their innovative work is not copied by others and protected. He added that engineers should be unique in their inventions and they should have practice communication skills to share the information with everyone in a better way.

The other events conducted on the day of symposium include paper presentation, project presentation, circuit debugging, quiz, photography, debate, multimedia presentation and LAN gaming. The events were judged by judges from the department of ECE and prizes were distributed to the winners.

*Report by: Mr. C. Rajasekaran, [raja7ksrct@gmail.com](mailto:raja7ksrct@gmail.com)*

## **Karunya University**

### **Seminar on “Employability-Industrial Requirements”**



The IEEE SB and the EIE Dept. organized a seminar on “Employability-Industrial Requirements” with Dr. L. Siva Kumar, Vice Principal, Sri Krishna College of Engineering & Technology, Coimbatore as resource person on 9<sup>th</sup> April 2013. After the welcome address by Mr. Alex Chandy, Ms. Sharanya Sundaram introduced the chief guest. The seminar presented by Dr. L. Siva Kumar was informative and beneficial to all attended. The seminar concluded with vote of thanks by Ms. Sarayu Raghavan.

## Sri Muthukumaran Institute of Technology

### Girl Day Celebrations



As a part of National Engineering Week celebrations, the WIE celebrated the GIRL DAY on 23<sup>rd</sup> Feb 2013 to encourage the girls to consider engineering as a potential career path and meet shortage of engineers as well as give more girls the opportunity to enter the exciting arena of engineering. About thirty-five students from various departments actively participated in this programme.

The celebrations started with the welcome address by Pooja Vijayaraj. The guests of honor were Thenkalvi, SB advisor for computer society, Kalaiselvi, SB counselor, and Janaki, HoD/EEE. After the screening of an inspirational video about Women in Engineering, a presentation was made by Ramya Hemant on 'The Importance of Engineering' which followed by a presentation on 'Women in Engineering' by G. Vasundhara.

A group discussion on the importance of GD was conducted by S. Divya. Mock GDs were conducted on topics such as 'Women security in India', 'Women in Politics' and 'Do Women need Reservations?'. All the participants came out with bright ideas on the topics given. S. Deepika 2<sup>nd</sup> year CSE, C. Christie Clementia 2<sup>nd</sup> year EEE and Meenakshi chaturvedi 3<sup>rd</sup> year EEE emerged as best speakers. With the vote of thanks by M. S. Balaji, Chairman, SB, the programme came to an end.

*Report by: K. Geetha, [geethakannan93@ieee.org](mailto:geethakannan93@ieee.org)*

### WIE FEST-2013: Women's Day Celebration



The WIE SB celebrated Women's Day on 6<sup>th</sup> Mar 2013. About 200 participants mainly the students of 1<sup>st</sup>, 2<sup>nd</sup> & 3<sup>rd</sup> years students from various departments participated. After the address by the principal, Dr. Sankaranarayanan, Ms. Kalaiselvi, SB counselor shared a few words of encouragement and empowerment with the participants. Ms. Janaki, HoD/EEE shared the importance of celebrating Women's Day. The chief guest, Dr. Nazeem

Sayed, Chief Medical Officer inspired the students by her talk which stretched out to reach the daily elements of her childhood days. She also encouraged engraining respect and honour for women in the minds of young boys from their immature days.

Pooja Vijayaraj, IEEE WIE Chairperson, delivered a technical presentation on 'Smart Grid'. It was followed by fun-filled events such as 'Crazy Bazaar', 'Guess the right word', 'Just A Minute' and 'Dumb C' which engaged the participants. The programme came to a closing with a valedictory function and the vote of thanks by Balaji. M.S, Chairman, SB.

*Report by: Pooja Vijayaraj, [pooja.vijayaraj@gmail.com](mailto:pooja.vijayaraj@gmail.com)*

### Essay Competition and online events

The COMSOC SB conducted an online essay writing competition on the topic "Green Trends for Blue Earth" on 4<sup>th</sup> April 2013 in order to collect the views of the students about this issue. About 200 students actively participated and made this event a grand success. In addition, an aptitude test and a treasure hunt event were also conducted. The aptitude test consisted of numerical reasoning, and abstract reasoning. In treasure hunt, the participants had to search for clues from the pictures given to them. The events were free of cost and every participant was awarded with an e-certificate. The winners of the aptitude test and the treasure hunt were awarded with prizes and the best essay will be published in the SB newsletter.

*Report by: Shilpa Bharathan, [bharathanshilpa@ieee.org](mailto:bharathanshilpa@ieee.org)*

## VMKV Engineering College

### National Level Project Competition and Paper Presentation



A national level Project Competition and Paper Presentation for Engineering and Polytechnic Students - "INOVOTECH'13" was conducted on 10<sup>th</sup> April 2013. After the welcome address by Dr. P. Senguttuvan, Vice Principal, Dr. A. Nagappan, Principal in his presidential address explained the importance of this event and advised the students to update their knowledge with available resources. In this event, 300 innovative projects were displayed and 150 papers were presented by the students from across the country. This competition provided a much

needed platform for young students to exhibit their creative and innovative ideas and talents and facilitated a space to transform their dreams into reality.

The chief guest of the function was Dr. H. V. Batra, Director, Defence Food Research Laboratory, Mysore and guests of honour were Major V. V. Chandrasekharan, Secretary, IEEE, Madras Section & Secretary, IEEE India Council and Dr. K. Manivannan, Secretary, ISTE, Tamilnadu & Pondicherry Section. The guests visited each and every project and appreciated the creative talents of the students.

A jury committee evaluated the projects and papers presented and selected the best three in projects and papers besides eighteen projects, one for each discipline for awarding consolation prize. On impressing, the performance of students and their innovative projects Dr. H. V. Batra announced that the best selected three projects and the papers would be further evaluated at Defence Food Research Laboratory, Mysore for studying the commercial viability and technical feasibility.

The prizes worth Rs.1.25 Lakh were distributed to the winners by Major V. V. Chandrasekharan and Dr. K. Manivannan at the valedictory function. The event came to an end with the vote of thanks by Prof. T. Muthumanickam, Secretary IEEE –AESS.

*Report by: Prof. T. Muthumanickam, [hod\\_ece09@yahoo.com](mailto:hod_ece09@yahoo.com)*

### Madras Section



#### Student Skill Development Programme on "Artificial Intelligence Methods in Engineering"

The IEEE Madras Section in association with IEEE SB of M P Nachimuthu M Jaganathan Engineering College, Chennimalai, Erode organized a Student Skill Development Programme (SSDP) on "Artificial Intelligence Methods in Engineering" on 27<sup>th</sup> and 28<sup>th</sup> March 2013. This, third SSDP was attended by 52 students from various colleges and universities all over Tamilnadu.

After a brief inaugural session in which Dr.N.Kumarappan, IEEE Madras Section Educational Activity Chair & Treasurer delivered the inaugural address, various technical lectures were delivered by the eminent resource persons such as Dr. N. Kumarappan, Professor of Electrical Engg., Annamalai University; Er. S. Anbazhagan, Asst. Professor of Electrical Engg., Annamalai University; Er.S. Saravanamutthukumaran, Asst. Professor of Electrical Engg., VRS Engineering College, Villupuram.

The topics covered in SSDP include Artificial Neural Network – Introduction and BPN, Fuzzy Logic, Load Frequency Control - Simulation, Hybrid Intelligence Approach. The participants were also given hands-on training. The program received an excellent feedback from all the participants. The coordinators of the program were Dr.N.Kumarappan, IEEE Madras Section Educational Activity Chair, Prof. D. Sabapathi, Associate Professor and Head of EEE department, M P Nachimuthu M Jaganathan Engineering College.

## IEEE SIGHT Madras Section

### Orientation Program



IEEE SIGHT Madras Section has initiated “SIGHT Camp” with a vision to encourage students to take up humanitarian projects. The SIGHT team consists of Mr. Anand B (Chairman), Mr. Antony Venus A.J (Vice Chairman), Mr. Arun Noel Victor (Secretary), Mr. Mukundhan S (coordinator), Ms. Madhuri Narayanan (coordinator) and few more volunteers. On 2<sup>nd</sup> Mar 2013, the orientation session was held in Easwari Engineering College. Mr. Mukundhan introduced the participants to SIGHT and need

for humanitarian projects to resolve the issues of the downtrodden. Mr. Arun Noel Victor briefed about the structure of the SIGHT camp and its objectives. The participants formed teams under various disciplines like Power and Energy, Health and Medicine and Education based on their field of interest. Mr. Anand enlightened the students on how to identify a social problem and find a technical solution for it. The participants had a discussion regarding their field of interests and shared their plans for humanitarian projects.

### Humanitarian Field Work



The participants of IEEE SIGHT Madras Section – SIGHT Camp set out to the field work on 3<sup>rd</sup> Mar 2013 at the village Oragadam near Chengelpet. The village has a population of 250 belonging to a tribal community. The participants made a study on their lifestyle along with their teams under their chosen disciplines. The participants analyzed various issues like sanitation, health, and power consumption through interaction with the locals. Following the visit the teams reported the issues and the data they have analyzed in the field work. The teams identified a social challenge of their choice and prepared a white paper on the project they would propose to solve the issues faced by the village inhabitants. The white papers were screened. 30 students from 13

institutions across Tamil Nadu participated in the camp and have started working on Humanitarian Projects to bring change in the lives of the target village. Thus, the SIGHT camp will be a boon to the underprivileged village inhabitants.

*Reported by: Arun Noel Victor*

### **International workshop on COMPUTATIONAL INTELLIGENCE: THEORIES, APPLICATIONS AND FUTURE DIRECTIONS**

on 11th July 2013 at SRM University, SRM Nagar, Kattankulathur – 603 203

*Supported by*

IEEE Computational Intelligence Society & IEEE Madras Section

*For registration pl. contact:*

The Coordinator, Dept. of EEE, SRM University  
SRM Nagar, Kattankulathur – 603 203.

Phone: (044) – 27452270, 27453380, Extn : 2001. Mobile: +91 9941540915

## Adhiparasakthi Engineering College

### ICCSP-13: International Conference



An International conference on “Communication and Signal Processing” was organized by Dept. of ECE along with IEEE Madras Section during 3-5, Apr 2013. The conf. focused on research frontiers of communication and signal processing and provided a platform to exchange new ideas, methodologies and explore opportunities by collaboration between domestic and international scholars. The conference sessions had a series of invited presentations from leading researchers/academicians from IIT, NIT, and

IIIT and from across the globe from China, USA, Malaysia, Singapore, Tunisia. The conf. was inaugurated by Dr. Zhi Ning Chen, Professor, NUS, Singapore. Dr. Ashok Rao, Former Head, IISc, Bangalore and Managing Director Dr. G. B. Senthil Kumar, Principal Dr. S. Jayashree, Dean Dr. V. Ramasamy, Vice-Principal Dr. R. Rajasekaran, Convener Dr. V. Nagarajan and Co-ordinator, Mr. A. K. Gnanasekar participated. At the valedictory session, Mr. T. S. Rangarajan, Chairman, IEEE Madras Section and Er. S. Ramakrishnan, Sr. Scientist DRDO, Bangalore participated.

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## St. Xavier's Catholic College of Engineering

### Rainbow Project



The WIE initiative of “Rainbow Project” aimed at exposing the technical knowledge and application to the rural people. Seven groups of students visited St. Josephs Middle school located in Kutakuzhi for implementing this project on 13<sup>th</sup> Mar 2103. They visited each class and conducted competitions like filling the bottle, drawing, singing, elocution, musical chair and some more spot events. Winner and the 1st runner up were chosen from each event.

Also, a science project done by the IEEE members for these children was exhibited to provide better knowledge on science and to gain or practice several scientific skills. With the funds provided by the IEEE Madras Section, gift items such as pen, chocolates and toys for these children were organized.

At the closing, after the prayer by WIE choir and a welcome speech by Ms. Dhivya, the Head Mistress of the school thanked the students for organizing this event at their school. Prizes were distributed to the children who won in the competitions. The program came to end with a vote of thanks by Ms. Bavithra, Secretary of WIE.

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## Kongu Engineering College

### Valedictory



The Valedictory of IEEE and WIE SB of Kongu Engineering College for the year 2012-13 was conducted on 9<sup>th</sup> April 2013. The welcome address was given by Mr. N. Gokulsankar, Chairman, SB. Prof. K. Narayanan, Branch Coordinator, appreciated the students for their enthusiasm in the active conduct of all functions throughout the year. In his presidential address, Mr. K.

Krishnaswamy, Dean of Curriculum Development and Student Affairs, appreciated the student office bearers for their continuous involvement throughout the year and also encouraged the future office bearers to continue the same. The Annual Report for 2012-13 was presented by Mr. R. Venghata Balaji Vice Chairman, SB. The Annual Report of WIE for 2012-13 was presented by Ms. S. Nilus Nidharsana, Secretary, WIE. The Office bearers for 2013-2014 were then introduced by Ms. V. R. Saraswathy, Staff Coordinator. The certificates were distributed to the volunteers and the student office bearers. After the vote of thanks by Ms. K. G. Preethi, Chairperson, WIE, the function came to an end.

*Report By: Preethi.K.G, [kgpreethi@gmail.com](mailto:kgpreethi@gmail.com)*

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## Francis Xavier Engineering College

### Seminar

A Seminar on “Analog VLSI and its conversion from micro to nano” was organized on 23<sup>rd</sup> Feb 2013 with T. S. Arun Samuel, regular PhD. research scholar/ECE, Thiyagarajar College of Engineering, Madurai as the resource person. He covered a wide range of topics on VLSI which include BJT and MOS transistor history, Semiconductor material, Short channel effect, Double gate MOSFET, Scaling, Research issues in analog VLSI, Project fund proposal preparation, Carrier at analog VLSI. The students were benefited a lot when he discussed about the current researches that are going on, in these topics.

*Report by: Indu Lekha. J.S*

### RACST-13: National Conference



RACST-13, the national level technical conference on Recent Advances in Communication Systems and Technologies was conducted on 8<sup>th</sup> Mar 2013. Out of 162 papers received from all over the country, 56 were selected for presentation under the themes of VLSI, Embedded Systems and Communication System. Dr. K. Rajagopal, principal in his address, highlighted the objectives and benefits of participating in conferences which includes bridging the gap between the academicians and research community. Mr. C. Thangavelu,

Scientist-F, Dy. Project Director, DRDO, Bangalore inaugurated the conf. and released the conference proceedings. In his special address, he pointed out the recent trends in DRDO and also on the advances in communication systems. He recalled various developmental stages of DRDO and emphasized the students to take the leadership to be innovative. At the valedictory function, certificates were distributed to the participants by the chairpersons.

*Report by: G.S. Sankari, Shally Kennedy*

### Guest lecture

A guest lecture on “Recent Trends in Broadcasting Technology” by Er. G.L.F. Francy Williams, Senior Engineering Assistant, All India Radio, Tirunelveli was organized on 16<sup>th</sup> Mar, 2013. She explained about the emerging trends in broadcasting technology as well as the modulation techniques that are widely used in today’s communication technology.

*Report by: Shally Kennedy*

### Guest Lecture

Along with the Dept. of ECE, a guest lecture on “Antenna and Wave Propagation” by Dr. Vijayaraj, Associate professor/ ECE, Government College of Engineering, Tirunelveli was organized on 22<sup>nd</sup> Mar 2013. The speaker described about the radiation pattern and highlighted the various research issues in antennas.

*Report by: Soumya.s*

## Velammal College of Engineering & Technology

### FDP on “Research Methodologies”



The IEEE SB organized a three day Faculty Development Programme on “Research Methodologies” during 12–14 March 2013. After the welcome address by Dr. A. Shunmugalatha, Professor & HOD/EEE, SB counselor Dr. N. Karpagam felicitated. Principal Dr. N. Sureshkumar inaugurated the

FDP and released the Proceedings.

Around 80 participants from various engineering colleges in Tamil Nadu participated in the programme. The topics such as Research approach for engineering problems, Publishing in journals / conferences, Report preparation, Strategies in completing successful PhD, Document preparation system - LaTeX, MATLAB applications in engineering, ANN & its application in research, Ant Colony Optimization & its applications, Consultancy & Student’s projects, Getting project funding, Research at research Institutes like IISc & IIT, Usage of online resources for research, and Research in abroad (U.S) were discussed. The resource persons for the programme were: Dr. A. Shunmugalatha, Dr. N. Karpagam, Dr. R. Narmatha Banu, Dr. S. Dhanalakshmi, Dr. S. Vasuki, Dr. P. Alli, Dr. G. Manikandan, Dr. S. Rajpandian, Dr. L. Andal, Dr. P. Rajeshkannan, Dr. G. Velmathi, Dr. M. Janakimeena & Mr. S. Gopalakrishnan, Librarian.

The PhD scholars from various attended the FDP found the sessions were useful in their research. Principal Dr. N. Suresh Kumar distributed the certificates to the participants and S. Senthil Rani, Programme coordinator proposed the vote of thanks.

*Report by: Dr. N. Karpagam*

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## Kalasalingam University

### National conference on “Intelligent Techniques in Control, Optimization and Signal Processing”



The IEEE SB organized the 4<sup>th</sup> National Conference on “Intelligent Techniques in Control, Optimization and Signal Processing” on 11<sup>th</sup> April, 2013 which was sponsored by IEEE, Madras Section, Alumni Association of KLU and Parent Teacher Association of KLU.

At the inaugural session, Dr. D. Devaraj, SB Counselor and the convener of the conference welcomed the gathering. Mr T.S. Rangarajan,

Chairman, IEEE Madras Section, in his inaugural address, advised the participants to follow the ethics while publishing their research work and mentioned that Madras Section encourages the SBs to organize conferences, seminars and workshops on latest topics. In his presidential address, Dr V. Kannappan, Vice Chancellor, highlighted the significance of optimization techniques in solving the industrial problems.

Dr. S.S. Dash, HOD/EEE, SRM University released the conf. proceedings and the first copy was received by Mr. R. Arunkumar, SB Chairman.

Research papers were presented by research scholars, postgraduate students and faculty members from various institutions in the area of Signal Processing, Neural Networks, Power System, Network Technology, Intelligent Control and Image Processing.

The conf. had the following invited lectures.

- “Challenges and Issues in Mobile Cloud Computing” by Mr T.S. Rangarajan, Chairman, IEEE Madras Section.
- “Advanced Techniques in Image Analysis” by Dr R. Balasubramanian, Associate Prof, Dept. of CSE, Manonmaniam Sundaranar University, Tirunelveli
- “Image Processing and its Applications” by Dr. A. Banumathi, Assistant Prof., Dept. of ECE, TCE, Madurai
- “Computational Intelligence in Smart Electric Power Grid” by Dr. S.S. Dash, HOD/EEE, SRM University, Chennai.

At the valedictory, Dr S.S. Dash distributed the certificates to the participants and the award to the winner of the best paper -- Ms. Suriyanarayani, Dept of ECE, TCE, Madurai for her paper on “Advanced Pixel based Texture Classification of Hilly Terrain from Cartosat-1 Data”.

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## Jayaram College of Engg and Technology



### Seminar

A one day seminar on “Scada and Electrical Utilities” with Mr.Rajasekar & Mr..Sasikumar from Prolific systems and Technologies Pvt. Ltd., Coimbatore as resource persons was organized on 20th Feb, 2013 in which Scada and its various applications in the field through some industrial examples and its electrical utilities were explained.

### Workshop

A one-day workshop on “Security Assessment and Enhancements using FACTS devices” was held on 22<sup>nd</sup> Feb 2013. The speaker, Dr. S. Sutha HOD/EEE, Anna University, Panruti Campus explained the Neural Schema of Power System. Based on the FACTS devices she explained the power system assessment and power system enhancement techniques and gave a detailed explanation about wavelet transform of neural networks, PSO optimization. In the afternoon session, algorithms with coding were executed in Matlab.

### Awareness Program

An Awareness program on ‘Computer Hardware and Networking’ was organized on 7<sup>th</sup> Mar 2013 with the support of Networking Training Centre, Aadrose Infotech at Trichy. Career opportunities in Hardware and Networking were discussed in detail. The participants were given an overview of hardware trouble shooting, software installation, networking and switching concepts.

*Report by: M. Bhoopathi*

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## Thangavelu Engineering College

### Inauguration of IEEE & Seminar on RFID

The inauguration of IEEE SB, followed by a technical session on “RFID” took place on 13<sup>th</sup> Mar 2013. Ms. Divya.C of IEEE SB welcomed the gathering, which was followed by a motivational speech by Dr. Durai.Arul Neyam. An inspirational speech was given by the SB counselor Mr. A. Pandiyan about his experience with IEEE and mentioned it as a pride to have the SB that overhauls the student community. Following the inauguration, a presentation on RFID was made by Mr. T. S. Rangarajan, Chairman, IEEE Madras Section. The program ended with the distribution of certificates to the volunteers.

*Report by: Vignesh Kumar R, [vic07@ieee.org](mailto:vic07@ieee.org)*

## Valliammai Engineering College

### 3<sup>rd</sup> National Conference on Emerging Technologies in Electrical and Electronics Engineering



The Dept. of EEE organized the IEEE Madras Section supported 3<sup>rd</sup> National Conference on “Emerging Technologies in Electrical & Electronics Engineering” on 26<sup>th</sup> April 2013. Out of 70 papers on diverse topics encompassing Power Systems, Power Electronics, Energy Management, Control Systems etc., received from reputed institutes across the country, the expert panel selected around 40 papers for presentation.

Prof. G. Madhusudan, HoD/EEE welcomed the gathering. Dr. N. Senthil Kumar, Professor, EEE, Mepeco Schlenk Engineering College, inaugurated the conf. and in his address, highlighted the importance of organizing such conferences for the benefit of student community as well as faculty. He pointed out that such conferences would ignite a spark in the minds of budding engineers and they would be triggered to explore more in the areas of their interest. Dr. B. Chidhambararajan, Principal delivered the presidential address in which he spoke about the appropriateness of the conference in a scenario of power crisis across the state.

Prof. G. Madhusudan, HoD/EEE welcomed the gathering. Dr. N. Senthil Kumar, Professor, EEE,

A keynote address on “Smart Grid” by Dr. S. S. Dash, Professor and HoD/EEE SRM University, marked the beginning of the paper presentation session. Dr. Dash began his address explaining the problems associated with the traditional grid and went on to highlight the role of Smart Grid in ensuring quality power to the consumers. He then played a video to enlighten the audience regarding the functioning of the smart grid.

About 15 papers were presented in the paper presentation session and two papers “Estimation and Mitigation of VFTO in 420kV GIS” by Mr. S. Reuban, CEG, Anna University and “Measurement and Analysis of Partial Discharge signals in 420kV GIS” by Mr. T. Prabakaran, CEG, Anna University were adjudged best by the judging panel which consisted of Dr. S. S. Dash, and Prof. K. Vijayakumar, both from SRM University. Cash awards to the winners in the paper presentation session and certificates to the participants were distributed in the valedictory function.

*Report by: Prof. G. Madhusudan, [gmadhuped@yahoo.com](mailto:gmadhuped@yahoo.com)*

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## Chennai Institute of Technology

### IEEE SB Inauguration



The IEEE SB of Chennai Institute of Technology was officially inaugurated on 18<sup>th</sup> Apr 2013 by Mr. T. S. Rangarajan, Chairman, IEEE Madras Section in a function which was attended by Mr. P. Sriram, chairman of the college, Prof. Dr. P. L. N. Ramesh, principal and Mr. D. Jayahar, HOD. Mr. Rangarajan, in his address, provided an overview of IEEE and its benefits. He then handed over the membership card to the members. The SB counselor Ms. Indira Priya, proposed the vote of thanks.

## IEEE OES, India Council

### Presentations at 8<sup>th</sup> International Symposium on Underwater Technology 2013 at Japan



The 8<sup>th</sup> international symposium on Underwater Technology 2013 (UT13) was held in Tokyo, Japan during 5-8, Mar 2013. The symposium was organized by IEEE, OES Japan Chapter, Institute of Industrial Science (The University of Tokyo), Earthquake Research Institute (The University of Tokyo), Japan Agency for Marine-Earth Science and Technology (JAMSTEC). About 13 countries participated in the UT symposium and

discussed the problems and potential long-term solutions that concern not only the Pacific Rim countries, but the world in general. The symposium consisted of keynote talks, double-track technical sessions, a poster session and a technical tour on the first day. It featured the advanced underwater technology and scientific use of submarine cables & related technologies.

Dr. M. A. Atmanand, Director, National Institute of Ocean Technology (NIOT) and Chair, IEEE OES, India Council, Chennai was invited to deliver a talk at the plenary session of the Symposium. Mr. P. Muthuvel, Scientist, NIOT and Member IEEE, participated in the symposium.

Dr. M. A. Atmanand, delivered an invited talk on “Developments in Underwater Technologies – Indian Scenario” in which he briefed about the major activities being executed by NIOT, India, “Drinking Water to the Island Community, Climate and Disaster Management, Deep Ocean Technology for Non-Renewable Resources, Deep Sea Crawler, Remotely Operated Vehicle and AUV, Autonomous Coring System, Remotely Operated Vehicle (ROSUB 6000), Remotely Operable In-situ Soil Tester and Major Challenges in this areas.

Out of three research papers presented from India, Dr. M.A. Atmanand, presented two papers on “Challenges in realizing robust systems for deep water submersible ROSUB6000” and “Deep sea qualification of Remotely Operable Vehicle (ROSUB 6000)” and Mr. P. Muthuvel presented a paper on “Performance Qualification of Instrumentation, Telemetry & Data Acquisition System for Underwater Mining Machine with Manganese Nodule Collection and Crushing System”

A one day Under water technology workshop will be organized at NIOT, India on 21<sup>st</sup> October 2013 as a precursor of Sympol 2013 to be held at Cochin from the 23<sup>rd</sup>. October 2013. During banquet, it was officially informed that, the 9th International symposium on Underwater Technology 2015 (UT15) will be held at NIOT, India organized by IEEE, OES, India Council.

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## Sri Eshwar College of Engineering

### Inauguration of IEEE Societies



IEEE Computer Society, IEEE Communication Society, IEEE Signal Processing Society were inaugurated on 22<sup>nd</sup> Apr 2013 by Mr. T. S. Rangarajan Chairman, IEEE Madras Section. At the function, Dr. Sudha Mohanram, principal welcomed the gathering. Mr.T.S.Rangarajan after inaugurating the various IEEE Societies, spoke about the importance and benefits of IEEE societies for the students and faculty members. He also provided guidelines to carry out research activities. He suggested on how to approach and obtain funds from IEEE Societies for conducting programmes. Technical events were also organized for the PG students

and the prizes and certificates were presented to the winners.

## Aarupadai Veedu Institute of Technology

### NCISE-2013: 5<sup>th</sup> National Conference on Information and Software Engineering



IEEE Computer Society Madras Chapter, IEEE CS SB-AVIT and Dept. of IT organized 5<sup>th</sup> National Conference on Information and Software Engineering during 26-27, Apr 2013.

At the inauguration on 26<sup>th</sup>, Dr. A. Anthony Irudhayaraj, Sr. Professor (Research), welcome the gathering and briefed them the theme of Conference. Dr. J. Shanmugam, Principal,

presided over the function and delivered the presidential address. Dr. M. A. Dorai Rangaswamy, Sr. Professor & Head(CSE & IT) introduce the chief guest Dr. D. Damodharan, Scientist 'E', Additional Director, Software Reliability Centre, Chennai who in his inaugural address highlighted the importance of innovative ideas relating to Software Reliability. Mr. H. R. Mohan, Chairman, IEEE CS, Madras Chapter and Associate Vice President (Systems), The Hindu, delivered the keynote address explaining the trends in the ICT & Software Engineering areas and released the conference proceedings.

Around 100 delegates including the research scholars, faculty members and students from all over the country participated in the two days conf. in which about 35 technical papers were presented. Dr. M. D. Selvaraj, Professor, Indian Institute of Information Technology Design & Manufacturing, Chennai delivered an invited talk on "Green Communications". Prof. C. Karthikeyan, Associate Professor (IT), delivered the Vote of Thanks.

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

### Seminar



The IEEE SB and Energy Club jointly organized a national level one day seminar on 9<sup>th</sup> Mar 2013. The Correspondent Tmt. Vasanthasudhanandhen, in her presidential address insisted the emerging engineers to enthusiastically participate seminars to develop their talents. The Principal Dr. S. Muthu, encouraged the students and participants by stating that by being the budding engineers, the students are responsible for power production with green environment

During the keynote address the Chief Guest Dr. N. P. Subramaniam, Associate Professor, Pondicherry Engineering spoke on the importance of renewable energy sources such as solar, wind, geothermal, tide and job opportunities available in the renewable energy sector. He also explained the innovative methods of power production by using renewable energy sources. In the valedictory function held in the evening, certificates were distributed to the participants by the Correspondent and the principal.

*Report by: D. Sabapathi,*

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You can now access the May 2013 issue of IEEE India Info, the newsletter of the IEEE India Council at <http://ieeecs-madras.managedbiz.com/icnl/1305/icnl-iii-2013-05.pdf>

For the contents pl. visit <http://ieeecs-madras.managedbiz.com/icnl/1305/index.html>

## SSN College of Engineering

### IEEE Awareness Program



An IEEE Awareness Program was conducted by IEEE Madras Section Student Network (MSSN) on 16<sup>th</sup> Apr 2013 which was attended by over 100 IEEE members. Ms. Apoorva Naidu introduced the students to the history of IEEE, WIE and how it all started. Video presentations were also made to gain the attention of the student members and the student also actively exposed themselves with the answers for her questions. Then Ms. Salma Saitoon elaborated

the need and the advantages of WIE in IEEE. Mr. Hari Krishnan shared his experience at IEEE and he also answered for the questions put forth by the IEEE student members. A gaming session was also made in the meanwhile to increase the consciousness about IEEE. Finally Mr. R. R. Subhesh IEEE volunteer from SSNCE showed the groups, services which are exclusively available in the Social Networks for IEEE members and the program ended with the vote of thanks by Dr. Aswin Kumar Sahoo, SB Counsellor.

*Report by: R.R.Subhesh*

## Jeppiaar Engineering College

### Spectrum Talk



The WIE Affinity Group SB conducted an event 'SPECTRUM TALK' on 3<sup>rd</sup> May 2013 in which the student members discussed on various recent Spectrum articles. Ms. Anu Rekha and Ms. Divya Bharathi elaborated on 'Palm Vein Scanner', showing that sensors can also be used to identify palm veins. Mr. Siddarth presented on 'Tech Cars' giving immense knowledge about the tech cars and its history. Followed by, was a presentation on 'Digits Hand Free 3D', an upcoming project of Microsoft which makes use of IR-illuminations, by Mr. Joses Paul. Mr. Vivek explained on 'Robotic Ankle by Amputees', a highly comfortable robotic device for physically disabled.

Lastly, Ms. Shanmugapriya and Ms. Nithya explained on 'Tablet Telephones for Hearing Impaired At Home' which makes use of android type OS. The latest technologies discussed helped students to gain knowledge about the newest inventions. Ms. Shalini, Chair, WIE cited the unique features of IEEE Spectrum, and suggested the student members to read Spectrum online.

*Report by: Jayanthi*

## Sri Ramakrishna Engineering College

### Guest Lecture on "Recent Trends in Electronics"



The IEEE SB organized a guest lecture on "Recent trends in Electronics" by Dr. C. P. Ravikumar, Technical Director of University Relations, Texas Instruments, Bangalore on 21<sup>st</sup> Apr 2013. The principal of the college Dr. N. R. Alamelu welcomed the gathering and introduced the chief guest. About more than 100 faculties of the college from various chapters attended the lecture. The words of the Engineer, Academician and Technician, Dr.C.P.Ravikumar made the faculties to get the broad view on the

new Processors, Advanced chipsets, Controller Boards and Advanced Sensors with their possible applications. The speaker explained with presentation slides and displayed new controller boards and processors. He also briefed the students and faculties about The National Level Analog Circuit Design Contest being organized by Texas Instruments in 2014. *Report by: K. Balamurugan*

## Kingston Engineering College

### National level Technical Symposium – TECKRAZE'13



TECKRAZE' 13, a two days national level technical symposium was organized during 19<sup>th</sup> & 20<sup>th</sup> April 2013 by Dept. of EEE, ECE, IT and Mech Engineering. The symposium was technically co-sponsored by IEEE Madras Section, ICT Academy of Tamil Nadu and BGR Energy.

Prof. Dr. G. Baskar, Principal, Kingston Engineering College welcomed the gathering stressed students should learn beyond the syllabus in order to update their knowledge in their area of interest.

The chief guest Prof. Dr. M. R. Mohan, former Professor & Chairman, Anna University, Chennai, inaugurated the symposium and delivered the inaugural address on “Recent Trends in Power System” and shared his wide experience in the area of power generation, distribution and utilization.

In TECKRAZE'13, around 200 participants from various institutes were participated in events conducted by departments of EEE (EBASH-13), ECE (SEIZURE-13) Information Technology (CYBERTRON-13) and Mechanical (KRYOGEN-13).

EBASH-13: 40 technical papers selected out of 120 papers received in the areas such as Power Electronics, Power System, Embedded System, VLSI & Renewable Energy sources were presented. 12 innovative projects were selected for Project Expo event. Events like circuit debugging, technical quiz were also conducted.

SEIZURE-13: 45 technical papers short listed out of 120 papers received in the areas such as, Embedded System, VLSI Design, Fibre Optics, Neural Fuzzy Networks, 3G/4G Communications etc., were presented. 15 innovative projects were selected for Project Expo event. Events like circuit debugging, technical quiz, IC Race and Plug 'n' Play were also conducted.

CYBERTRON – 13: 40 technical papers selected out of 130 papers received in the areas such as Wireless Sensor Network, Software Engineering, Artificial Engineering, Android Technology, Network Security, Multimedia Technology etc., were presented. 15 innovative projects were selected for Project Expo event. Events like debugging in programmes, technical quiz, web designing were also conducted.

KRYOGEN-13: 50 technical papers short listed out of 140 papers received in the areas such as Robotics, Alternative Fuel/ Green Energy, Recent Trends in Manufacturing / CIM, Refrigeration/ Air Conditioning, Advancement in Automobile Engineering etc., were presented. 15 innovative projects were selected for Project Expo event. Events like CADD Design, technical quiz etc., were also conducted.

In the valedictory function, the winners and runners of the all the events were awarded with cash prizes of Rs.3000/- (First Prize) and Rs.2000/- (Second Prize) and certificates by Prof. Dr. G. Baskar, principal. The function ended up with vote of thanks by Ms. S. Jayachitra, SB Coordinator.

*Report by: Jayachitra Selvaraj, Email-id: [jayanethaji@gmail.com](mailto:jayanethaji@gmail.com)*

As a special benefit to IEEE members for the month of May, IEEE-USA is offering a free e-book, "Launching Your Career-Book 4: Lifelong Learning – Your Key to an Enjoyable and Rewarding Career," written by John Meredith, former IEEE-USA President.

This e-book is a guide for engineering students who are about to begin their careers, or the engineers just their careers. A number of practical ideas and thoughts are suggested that can help make lifelong learning a priority in pursuing an exciting and rewarding career. Download this e-book from <http://www.ieeeusa.org/communications/ebooks/files/47skc0ie/Launching-Your-Career-Lifelong-Learning.pdf>

## Activities of IEEE Computer Society, Madras Chapter during Jan – Apr 2013

- A presentation and demo on “**Enjoyable Introduction to Programming using Alice and JavaScript**” by Dr. Jeyakesavan Veerasamy, Director of CS UT Design Program & Teaching Faculty, Department of Computer Science, Erik Jonsson School, The University of Texas at Dallas, USA was organized on 3<sup>rd</sup> Jan 2013 by IEEE CS Madras Chapter in association with CSI Chennai Chapter.
- Dr. Vinton Gray Cerf, President, Association for Computing Machinery (ACM), Co-designer of TCP/IP Protocol & Turing Award Winner and Vice President and Chief Internet Evangelist, Google, USA delivered a public lecture on “**The Future of Internet**” on 24th Jan 2013. This was organized by the ACM Chennai Chapter along with IEEE CS, CSI and IIT Madras Alumni Association, Chennai.
- IEEE CS along with GINI (Student Network) supported the **Microsoft Tech Days** at Coimbatre (6<sup>th</sup> Feb 2013) & Erode (18<sup>th</sup> Feb 2013) covering the events on Windows 8 Developer Event and the IT Professionals Event.
- A presentation by Mr. R. Jairam Iyer, Director (Technology), Infocareer Private Ltd., Chennai on “**Refactoring Code**” was organized on 27<sup>th</sup> Feb 2013 by IEEE CS & CSI.
- IEEE CS supported the two-day national seminar, **NSATSE-13: National Seminar on Architectural Thinking for Software Engineers** held during 4-5 Mar 2013 at SRM University, Chennai.
- IEEE CS supported the one day conference, **NACTA-2013: National Conference on Advance Computing Technologies** and Applications held on 8<sup>th</sup> Mar 2013 at Sri Muthukumaran Institute of Technology, Chennai.
- IEEE CS joined with CSI, Chennai in the **CSI Foundation Day Celebrations** held on 15<sup>th</sup> Mar 2013 in which students from select engineering institutions **presented their innovative projects**. Mr. H.R. Mohan, Chair, IEEE CS conducted an **ICT Quiz** in which the all the participants took part enthusiastically.
- IEEE CS along with IEEE COMSOC, IETE, CSI & Broadcasting Society supported the one day conference **NCVESCO-2013: National Conference on VLSI, Embedded Systems, Signal processing and Communication Technologies** held at Aarupadai Veedu Institute of Technology at Chennai on 3<sup>rd</sup> April 2013
- IEEE CS along with CSI Div IV supported the one-day workshop on **Mobile Cloud Computing** held on 4th April 2013 and organized by the TIFAC – CORE in Pervasive Computing Technologies at Velammal Engineering College, Chennai.
- IEEE CS supported the two-day conference, **NCISE-2013: National Conference on Information and Software Engineering** organized during 26-17, Apr 2013 at Aarupadai Veedu Institute of Technology, Chennai

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## Distinguished Visitor



**Dr. San Murugesan**, Director, BRITE Professional Resources & Adjunct Professor, University of Western Sydney, Sydney, Australia has been nominated as a Distinguished Visitor of IEEE Computer Society for a term running till December 2014.

He can deliver guest lectures, tutorials on the following topics: Green IT; Cloud Computing and Its Applications; What is Web 3.0, and Why You Should Bother About It Now; The New World, Smart Systems, and Agent Renaissance; and IT in Emerging Markets: Harnessing the Opportunities and Addressing the Challenges

To know more about him and his expertise, pl. visit

<http://www.computer.org/portal/web/chapters/Murugesan> IEEE CS Madras Chapter will be pleased to coordinate in organizing the DLP by him during his visit to India. The institutions, interested in hosting his DLP may send their request by email to [hrmohan.ieee@gmail.com](mailto:hrmohan.ieee@gmail.com) for doing the needful in consultation with Dr. San Murugesan.

## Participation of Educational Activity Chair at IEEE SSCI 2013 at Singapore



The 2013 IEEE Symposium Series on Computational Intelligence (IEEE SSCI 2013) is the largest technical event in the field of computational intelligence. It was held in Singapore during 15-19, April 2013. The SSCI-2013 offered 34 symposium and 9 workshops. The symposia had around 50 keynote & tutorial speakers. In the IEEE SSCI 2013 symposium, nearly 620 papers were presented.

In IEEE SSCI 2013, Dr. N. Kumarappan, IEEE EXCOM Member, Educational Activity Chair & Treasurer, Madras Section was invited to chair a special session titled “Renewables and Storage” in IEEE Computational Intelligence Applications in Smart Grid (IEEE CIASG 2013) symposium. As the member of IEEE CIS Smart Grid Task Force, he also attended a meeting on 17<sup>th</sup> April 2013.

He also presented the following two papers in the symposium.

- Classification of Day-Ahead Prices in Asia’s First Liberalized Electricity Market Using PNN
- Coordination Mechanism of Maintenance Scheduling Using Modified PSO in a Restructured Power Market”

Participating in the symposium was a great experience as it provided a simulating forum for scientists, engineers, educators and students from all over the world to discuss and present their findings on computational intelligence.

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## Announcements

### All IEEE-R10 Young Engineers' Humanitarian Challenge 2013 – Final call with revised deadline

AIYeHum is a project-contest, Supported by: R10 Humanitarian Technology Activities Committee, R10 Student Activities Committee, R10 GOLD, and R10 WIE, to encourage young scientists and engineers to solve real-world challenges applying science and technology. The contest aims at orienting young minds towards identifying community problems and developing technology solutions to address them, focusing on actual implementation reaching the beneficiaries. The teams will be awarded fund grants to support their implementation. Suitable mentors from industry and academia will be invited to guide the teams, depending on the requirements and availability. In addition, webinars will be held to assist the teams on important topics such as Service Learning, Project Management and Planning. After 4 successful years in India, this program is now being organized to reach participants from all the Asia-Pacific (IEEE Region 10) countries. Bangalore Section is sponsoring AIYeHum 2013.

**Project proposal submission:** Project proposals are invited for submission. The projects should benefit an underserved population or solve a community problem, applying science and technology. A strong practical implementation of the projects, actually reaching the target beneficiaries is expected. From 2013, myReviewroomportal will be used for proposal submission, review and mentor assignment.

**Eligibility:** Open to professionals and students from any science or engineering fields, below age 35. Participants need not be members of IEEE to apply and submit proposals.

**Deadline:** 31<sup>st</sup> May 2013

**Website:** <http://www.ieeehumanitarian.com>

### 24th Faculty Development Programme

**Title:** Embedded Systems and its Application to Power System, Power Electronics

**Dates & venue:** 31<sup>st</sup> May – 1<sup>st</sup> June 2013 at Arunai College of Engineering at Tiruvannamalai.

For registration, pl. contact IEEE Madras Section at [ieemas@gmail.com](mailto:ieemas@gmail.com) or phone: 044-24423939 or Mobile: 9382328776

### Region 10 GOLD initiatives grant for the year 2013

IEEE Madras Section is pleased to inform the members that two our proposals out of 23 received from across Region 10, have been selected for grants. While the proposal for “E-Mentor Initiative” gets USD 400, the proposal for “Social Entrepreneurship Workshop” will get a funding of USD 250.

### Free e-Books from IEEE-USA

As a special benefit of IEEE membership, IEEE-USA offers free e-Books. Some of the recent offerings include the following:

- “Perspectives on the Management of Technology”. Download it from <http://www.ieeeusa.org/communications/ebooks/files/98dfj282/Perspectives-on-the-Management-of-Technology.pdf>
- “Strategic Thinking: A High-Tech Strategy Guidebook”. Download it from <http://www.ieeeusa.org/communications/ebooks/files/s-3n2d8j/Strategic-Thinking-Hi-Tech-Strategy-Guidebook.pdf>
- “A Practitioner’s Guide to Leadership”. Download it from <http://www.ieeeusa.org/communications/ebooks/files/Ei27c2k98/Launching-Your-Career-A-Practitioners-Guide-to-Leadership.pdf>

### IEEE Madras Section: New Student Branches recently approved in 2013

- Srinivasan Engineering College, Perambalur
- Arulmigu Meenakshi Amman College of Engineering, Kanchipuram
- Chennai Institute of Technology, Chennai
- Sri Krishna College of Technology, Coimbatore
- Ponjesly College of Engineering, Nagarkoil
- Scad College of Engineering and Technology, Tirunelveli
- PR Engineering College, Chennai

### IEEE Madras Section: New SB Society Chapters recently approved in 2013

- Sri Eshwar College of Engineering, Coimbatore, Computer Society
- Sri Eshwar College of Engineering, Coimbatore, Signal Processing Society
- Sri Eshwar College of Engineering, Coimbatore, Communication society
- Hindustan Institute of Technology & Science, Chennai, Industry Applications Society
- Jeppiaar Engineering College, Chennai, Power & Energy Society
- National Engineering College, Kovilpatti, Computer Society

### IEEE Madras Section: New Society Chapters recently approved in 2013

- Electromagnetic Compatibility Society, Madras Chapter
- Antennas and Propagation Society, Madras Chapter

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

Affiliate	8
Associate Member	55
Fellow	2
Graduate Student Member	1142
Life Fellow	2
Life Member	3
Life Senior	10
Member	1262
Senior Member	117
Student Member	4778
<b>Total</b>	<b>7379</b>

## IEEE Code of Ethics

We, the members of the IEEE, in recognition of the importance of our technologies in affecting the quality of life throughout the world, and in accepting a personal obligation to our profession, its members and the communities we serve, do hereby commit ourselves to the highest ethical and professional conduct and agree:

1. to accept responsibility in making decisions consistent with the safety, health, and welfare of the public, and to disclose promptly factors that might endanger the public or the environment;
2. to avoid real or perceived conflicts of interest whenever possible, and to disclose them to affected parties when they do exist;
3. to be honest and realistic in stating claims or estimates based on available data;
4. to reject bribery in all its forms;
5. to improve the understanding of technology; its appropriate application, and potential consequences;
6. to maintain and improve our technical competence and to undertake technological tasks for others only if qualified by training or experience, or after full disclosure of pertinent limitations;
7. to seek, accept, and offer honest criticism of technical work, to acknowledge and correct errors, and to credit properly the contributions of others;
8. to treat fairly all persons regardless of such factors as race, religion, gender, disability, age, or national origin;
9. to avoid injuring others, their property, reputation, or employment by false or malicious action;
10. to assist colleagues and co-workers in their professional development and to support them in following this code of ethics.

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## IEEE MAS LINK Congratulates

- **IEEE WIE Jeppiaar Engineering College SB Affinity Group** for receiving the 2012 WIE Student Branch Affinity Group of the Year Award which includes a certificate of recognition, cash award of USD 250/= and an offer of appointment of the group's chair, Ms. Shalini S. (or recommended representative) as the worldwide student representative on the WIE Committee from July 2013 to June 2014.
- **Prof. T. Thyagarajan**, Past Chair, IEEE Madras for his appointment to the position of 2013-2014 R10 Industry Relations Coordinator and to the 2013-2014 R10 Executive Committee.
- **Mr. K.V. Rupchand**, Chairman, IEEE Power and Energy Society, Madras Chapter for steering IEEE PES Madras Chapter to receive the Outstanding Chapter Runner-up Award for 2012 (with a cash award of \$250) for the third year running (2010, 2011 & now 2012).
- **Mr. P.A. Manoharan**, Chair, IEEE Robotics and Automation Society, Madras for successfully defending his PhD thesis on "Design of MEMS Based Capacitive Sensor with Novel Support Structure and PZT Sensing Element for Pressure Sensing Applications"
- **Mr. H.R. Mohan**, Chair, IEEE CS & PCS and Vice Chair, IEEE Madras for being elected as the Vice President cum President Elect of Computer Society of India, the largest IT professionals association in India which has over 102,000 members including students across the country

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