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Message from Chairman



Dear Members

The start of this academic session, for me, has been rather busy with several events and conferences at different locations. It is heartening to note that institutions and student branches are very keen to organize conferences and events leveraging IEEE. When I compare IEEE with other associations, I find that IEEE has consistently leveraged technology to improve its service to members and volunteers all through its existence. This has resulted in IEEE being head and shoulders ahead of others in its effectiveness to connect and engage with its members and volunteers.

For example, the IEEE Conference Exchange (ICX)

(http://www.ieee.org/conferences events/conferences/organizers/icx.html) is the IEEE conference-management platform. ICX provides the infrastructure to support and enhance conference business processes. IEEE launched the first phase of ICX in June 2012 with the introduction of the IEEE Conference Application, with integrated Memorandum of Understanding (MOU) development. The old paper based MOU is no longer encouraged by IEEE.

Similarly vTools (http://sites.ieee.org/vtools/) offers a range of facilities such as Create a WebInABox site, Report officer changes, Schedule a Meeting, Setup a Survey, Setup a Web Conference, Setup an election, Submit L31 report, Vote in an election and some more under development.

As the premier association for advancing technology for humanity, I believe, as volunteers, we must lead in the use of technology for all our activities. Even charity has to begin at home. While I see some institutions and student branches using these tools effectively, most of the others are not. Many student branches do not even have a website. Please see http://www.ieee.org/membership services/membership/students/branches/region10.html

Our Section website http://ewh.ieee.org/r10/madras/ also requires content from all of you. We have sent a user id and password to each student branch and key volunteers to enable them to create and maintain their own page and also update it with content from events at their location. Maintaining a website will greatly help in transitioning the work from one set of volunteers to another and prevent reinventing the wheel year after year.

The Section recognizes and awards the student branches every year during the AGM on the basis of reports of events conducted in their respective institutions and submitted to the newsletter by them. That appears to be the only measurable metric to evaluate student branch performance. After all there is a saying 'In God we trust, everyone else brings data'.

Till next time,

Yours voluntarily ranga@ieee.org

Message from the Editor



H.R. Mohan
http://infoforuse.blogspot.com
Blog: http://infoforuse.blogspot.com

Our chairperson, in his message has detailed out on IEEE HQ uses technology in serving the members. While few SBs have mastered in using these features, many are yet to be familiarized and derive benefits. We request the IEEE Madras Section Student Network to take some interest in organsing sessions at various hubs and educate the SB counselors and OBs. His concerns on our Section website not getting content from various OUs – Society Chapters, SBs are also needs to be addressed. The website will speak for us provided it is updated with information regularly.

As indicated in the chair's message, the matrix for honouring the OU is the based on the activity reports published in the newsletter. Hence, we request the events be reported in time for publishing in the newsletter. In this context, as the editor of the newsletter, I have few observations to share. While a no. of SBs follow the general guidelines at http://goo.gl/Op2dU while submitting the matter for publishing in the newsletter, we still find a no. of events reporting do not adhere to the guidelines. We get reports with photos embedded which makes it difficult to edit/touchup the photos. Further, we get large photo files -- in MBs while what we can publish in the newsletter is in few Ks. We had suggested for the re-sizing of the photos to a size not more than 1024x768 px though we prefer to get much smaller ones of size 640x480 px. Some SBs take their own time to report the event. As a matter of principle, we will note able to publish the about the events reported after three months of its happening. We also get reports without much substance but with just names of the people, who welcomed the gathering, addressed / facilitated, introduced the speaker, presented memento and delivered the vote of thanks. We will be constrained to leave out names if they are too many in a brief report. We request the OBs & SB counselors to go through the edited & published reports in the newsletter and follow a similar style. Pl. provide good quality picture to go with the occasion. For a guest lecture, we get either a picture with a group / a large section of participants or a picture with just the speaker alone. Ideally, we prefer the picture to have the speaker and some audience. We also note that some SBs (like JEC, SMIT, Kongu) are very active with multiple events in a month – sometimes over six, a majority of our SBs appear to be inactive with no reports coming from them. We wish they also became active.

We were flooded with too many reports in this month and we could not publish all of them. We propose to present in brief, a summary list of events rather than publishing the individual events when no. of events reported by a SB exceeds four in a month in cases such as JEC, which reported on 12 events. SMIT submitted on eight (but late).

In this issue of LINK, we have published report on the various SB activities held at Jeppiaar Engineering College, Knowledge Institute of Technology, Kongu Engineering College, Karpagam College of Engineering, Sri Ramakrishna Engineering College, National Engineering College, Coimbatore Institute of Engineering and Technology, Sri Muthukumaran Institute of Technology, Sri Eshwar College of Engineering, Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya – inauguration of the SB, Thiagarajar College of Engineering, Scad College of Engineering and Technology – Inauguration of SB, Ranganathan Engineering College, Kalasalingam University, Erode Builder Educational Trust Group of Institutions – Inauguration of SB, Erode Sengunthar Engineering College, St. Xavier's Catholic College of Engineering – International Conf., Jeppiaar Institute of Technology, Easwari Engineering College, and Kumaraguru College of Technology. A report on IEEE PES GM2013, held at US as reported by Mr. Mr. K.V. Rupchand, Chair, IEEE PES along with the seminar on 'Research and Publishing' organized by the Antennas and Propagation Society and the Microwave Theory and Techniques Society Chapters also appear in this issue of LINK.

The Aug 2013 issue of the India Council newsletter IEEE India Info that has four interesting articles, book reviews, TechQuiz, List of Forthcoming events etc., has already been released to all our Section members. Pl. access it at http://ieeecs-madras.managedbiz.com/icnl/1308/index.html

The IEEE membership fee effective 16th August 2013 for the period Aug 2013 to Dec 2014 has been announced. We urge our members to promote membership, which entitles 14-month membership benefits with just 12 months fee.

IEEE Power and Energy Society

Report on IEEE PES GM2013





The IEEE PES General Meeting 2013 was held at Vancouver, Canada during 21-25 July 2013. This is the annual Flag Ship event of PES, held every year in North America. Statistics pertaining to the GM are mind boggling: 3000 attendees, 1000 Papers, Many Panel Sessions, Posters, GOLD, WIE, Students Exclusive Meetings, Award Functions & Committee Meetings.

I chaired & led a two hour Panel Session titled 'Linkage between Energy and Water' on 25th July 2013. Co-Panellists were Dr. Maike Luiken, Lambert College & Chair PES London Chapter and Dr. Jeff Carmichael, Director Research, Vancouver Metro Water. I had to put up sustained effort for 9 months to set up this Panel. The title was considered as of great significance reckoning the theme of the Conference 'Shaping the Future Energy Industry'.

I also attended the following other events:

- PES Chapter Chairs Meeting
- Chapter Awards Meeting & Luncheon (Madras Chapter Outstanding Chapter Award Runner-up announced & I was recognized as the Chapter Chair)
- Steering Committee Meeting for PES R 10 Meetings
- Welcome Reception & Dinner
- Members General Meeting Plenary
- Opening Plenary Sessions
- PES Renewable Technology Sub-Committee as its member
- PES RTSC Photo-Voltaic Working Group as its member.

It was exhilarating to rub shoulders with the top executives of PES, other peers, exchange 'notes' and renew contacts which I established at the GM2011 at Detroit & Chapter Chairs meeting at Perth, 2011. At every meet, I highlighted the statistics of Madras Section, especially its enterprising officers and large & active Student Chapters & its Members.

Report by: Mr. K. V. Rupchand, Chair, IEEE PES Madras Chapter from USA

Events

National Workshop on "Signal & Image Processing Applications using Xilinx System Generator". 22nd & 23rd August 2013 at Coimbatore. Organized by IEEE SB & Dept. of ECE (PG), Sri Ramakrishna Engineering College, Coimbatore in association with CoreEL Technologies, Bangalore. Website: www.srec.ac.in

BIOYANTRA'2013: National Symposium on Medical Devices. 6th & 7th September 2013 at SRM University, Chennai. Website: http://www.srmuniv.ac.in/node/7587

Jeppiaar Engineering College

IEEE communication society, with great zest conducted a paper presentation contest on 8th July 2013. Out of seven papers presented, the paper presented by Rahul Sharan and Siddharth Ravichandran on "Distinguishing Identical Twins By Multi Scale Automatic Facial Mark Detection System" was selected as the best paper.



The WIE Affinity Group organized **STAR Program on** 9th **July 2013** in which simple projects developed by 2nd year students which could be easily deciphered by the 6th, 7th and 8th grade students were demonstrated at Thiruporur Government Boys Hr. Sec School. Under the guidance of the volunteers, students demonstrated the projects such as Lemon Battery, Homemade Electroscope, Homemade Burglar Alarm, Proximity Sensor, Clinometer, etc... The school students, about four

hundred in number, showed great interest and enthusiasm in learning new things. In order to motivate them, fun activities involving science were conducted and IEEE Goodies were provided for the students who answered questions at the end of the session. After the presentations of the projects, our execom members Krishna VS and Shiv Prashad presented some inspirational and innovative videos to inspire the students. The event created a highly positive image on engineering and science among the students.



The IEEE Power and Energy Society Chapter at JEC was inaugurated on 10th Jul 2013 by Mr. K. V. Rupchand, Chairman, IEEE PES Chapter, Madras. In his enlightening speech on the topic "IEEE and Technological Development" Mr. Rupchand enunciating ideas of what IEEE and PES is, the future technologies, energy sustainability and lot more. It was then followed by introduction of the office bearers: Amarnath R, Chairman, Priyanka V, Secretary and Vivek Venkatasubramaniam, Treasurer. Then a short video on PES was presented. The session concluded with vote of thanks by Amarnath R.

The Inauguration of Solar Powered Classroom and Honoring of the Energy Audit team was the first event conducted by IEEE PES SB Chapter on 11th July 2013. The main ceremony started with inauguration of solar powered classroom. The energy audit team comprising of ten members namely Siddarth V.R , Manoj Reddy G , Dinesh Kumar A, Vivek A, Macbel M, Jagadeeshwaran R , Madhuri K.P, Shoby G, and Krithika N were honored by the principal Dr. Susil Lal Das and Dr. T. Thangavelu, HoD/EEE. The Energy Audit team was funded with Rs. one lakh twenty five thousand for the implementation of Solar Powered Classroom. Also V.R.Siddarth, Manoj Reddy G, Dinesh Kumar A, were funded with 250 \$ from IEEE for their paper. It was then followed by a presentation on the theme "Energy Audit and Solar Powered Classroom" by the team members Ms. Shoby G , Mr. Manoj Reddy G and Mr. Macbel M. It was then followed by a video presentation on implementation of Solar Powered Class room.



Eight JEC SB members attended the prestigious Region 10 Student/GOLD/WIE Congress held at Hyderabad during 11-14, July 2013. While Nivas, Arun Noel Victor, Salma Saithoon, Harini Vasu, Shalini Santhosh, Wafa Waheeda, Sree Rakshaa and Fathima Hathoon Nargis represented the JEC SB and IEEE Madras Section, Mr. Arun Noel Victor and Ms.Sree Rakshaa displayed a stall for IEEE SIGHT with other SIGHT members. Mr. Nivas, being the R10 Social Media Lead, organized the Twitter Contest for the Congress and assisted in organizing the Project Presentation Event 'Demo IT' on the third day of the congress. Salma, Wafa, Shalini and

Fathima prepared a poster on WIE Affinity Group of JEC and presented in the WIE Poster Contest and won the second prize, R10 Exemplary Student Branch Award 2012. Anand received the third prize for the R10 Student Paper Contest 2012. On the last day, Aakash tablets were distributed to each one of us to make the students develop apps. The congress gave us a vast experience as it was one of the biggest events of IEEE Region 10 where the dignitaries were from different parts of Region 10 and other Regions. We convey our sincere thanks to IEEE Madras Section in funding us completely to attend the congress.

The IEEE Power and Energy Society Chapter of JEC conducted a **Technical online quiz on 13th July 2013** to motivate the student members to take part in upcoming events and to recognize their talents. The server was hosted by Mr. Joseph Peter Webmaster IEEE JEC SB. Out of 61 participated, Mr. Srinivasan, EEE final year, Ms. Visalakshi, EIE pre-final year and Ms.Ananshiya, EEE final year stood first, second and third respectively. All the participants were given e-certificate and special prizes were given to the winners along with the certificates.



The VLSI Workshop on 15th July 2013 was conducted by JEC SB and COMSOC SB chapter. Ms. Jeyalakshmi Devi, Assistant Professor, Dept. of Electronics & Instrumentation, JEC conducted the workshop. Ms. Jeyalakshmi began the workshop with an introduction on the evolution and necessity of VLSI, and then she continued to elaborate on its various design tools. This was followed by a detailed presentation on the different types of programming techniques used in VLSI.

She explained the concepts clearly and made the students to write program code for the models of a few circuits. The workshop served as a good platform for the students to gain knowledge about the basics of VLSI and also strived to help them in academics and in making projects.



The Computer Society chapter of JEC organized a workshop on PHP, the most widely used programming language in order to give a basic idea of how to create a website using PHP on 18th July 2013. The speakers at the workshop were Mr. Manoj Pandian, Mr. Prabhu Nathan from FIASD, & Mr. Siva Ganesh. The workshop was attended by 86 participants.



The Computer Society Chapter of JEC hosted GOOGLE IT, an online treasure hunt, in association with the IEEE Computer Society Chapter of Madras Section with the aim of testing the logical thinking of the students and also to check how aware they were on the current issues in the country. It was open for all the IEEE India Council members and we received 308 participants from Delhi, Hyderabad, Kerala, Bangalore, Gujarat and Madras, trying tirelessly to crack the answers. A team of ten spent their quality time to frame questions and design the website. All the areas like latest inventions, books, movies, sports and much more where covered in the whole hunt. The hunt, which lasted for a week from 20th July 2013 to 27th July 2013 turned out to be the platform for fun and knowledge to meet. Atchai Viknesh, Jeppiaar Engineering College won the contest and the runners-up were Prasanth Pulakala

and Naveen S from Hyderabad Section. The event conveyed that 'There is a search in everyone's life, only the smart manage to get to the destination'.

IEEE PES Chapter of JEC organized a workshop on MATLAB on 23rd July 2013 as a part of the Project Month. The speakers at the workshop were Mr. Arun Srinivas and Mr. Sakthi. In the first session of the workshop, Mr. Arun Srinivas enlightened the participants about the basic concepts of MATLAB simulation and briefed about the structure of the programme. Mr. Sakthi, in the second session, engaged the students to develop their own program and design circuits for simulation. The workshop attracted 75 participants who felt the workshop was extremely beneficial.



The JEC Computer Society Chapter in association with the SB organized a workshop on Photoshop on 25th July 2013 as a part of Project Month. It was a one day Workshop with three eminent speakers Mr. Arun Noel Victor, Secretary, IEEE SIGHT Madras Section, Mr. Siva Ganesh and Mr. Prabhunathan. 65 students took part in the workshop. Mr. Arun

Noel Victor took the session involving the basic concepts and tools necessary for creating attractive posters. He showed a complete demo of his IEEE works and grabbed the student's attention. He also focused on 'Google Sketch up' software and taught how to create 3D effective sketches. At the end Mr.Prabunaathan took over the session about Projects and how to work on it. The workshop as a whole was a huge boost up and created awareness among students about the Website Designs.

As a part of the Project Month, the PES Chapter of JEC in co-ordination with the IEEE Sb organized a workshop on Soldering on 25th July, 2013. Mr. Guru Nathan was called upon to handle the session for the 60 participants who were split into 15 teams of 4 each. Each team was given a soldering kit and a board to practice soldering. They were taught to design their own circuits. The participants were also trained efficiently on the de-soldering techniques. The workshop was most expedient for each and every student member who had participated for they had a practical session on soldering.



The WIE Affinity Group of JEC, on 26th Jul 2013 conducted PAPYRUS'13 – a paper presentation contest for the final year and third year IEEE student members to encourage them to present technical papers and also update the audience about the latest technologies and advancements. The event was presided by Ms. Ashley Mary Tom, Asst. Prof., Dept. of EE and Mrs. Girija Mahesh, Asst. Prof., Dept. of CS. The event began with the felicitation of the judges by

the Student Branch Counsellor Mr. Sellakumar. There were 13 teams in all comprising of members from various departments including EEE, EIE, ECE, CSE and IT. Each group had a presenting time of 10 minutes followed by a Q&A session by the judges. The winning teams to be announced during the next IEEE event. The student members actively participated in the event and their hard work and toil was evident in the manner of their presentations. The event also provided an opportunity for the participants to share ideas and suggestions among themselves.

Knowledge Institute of Technology

Guest Lecture on MSP 430 Processor - Industrial Trends



The IEEE SB in association with ECE Dept. organized a guest lecture on 26th Jul 2013. The Chief Guest, Mr. Gurjith Singh, Managing Director Gill Instruments, Bangalore, gave a motivational speech on happiness for life through learning. He discussed about needs of embedded system and stated that around 95% of the microcontroller usage is by embedded system. He briefly discussed about the architecture of MSP430 IC; IC invention; and working of MSP430. It was informed that around 70% of the chips that are used in our daily life have been manufactured by Texas and by its second and third party vendors. He also discussed on some of the projects in which his company is involved to protect the trees in Kerala and also few applications such as Bio–medical instruments, MSDC and Embedded Web Server. His presentation with queries benefited around 300 student participants.

Idea/Poster contest on Assistive Technologies



An Intra college idea contest and poster presentation was organized on innovative ideas for assistive technologies on 31st Jul 2013. IEEE student members submitted their ideas as abstracts on 27th July. 26 different ideas for assistive technology were submitted by the students of various departments. The best 13 ideas were shortlisted for poster presentation and the contest. The students explained their ideas and participated actively. The winners were selected based on the innovativeness of the idea and the quality of presentation. The judges queried the participants and suggested tips/ideas which the students can implement more effectively in enhancing their work. The judges also motivated the students to come out with more projects for enabling assistive technologies.

Kongu Engineering College

Technical Awareness Programs



The WIE Affinity Group of KEC conducted a Technical Awareness Programme for a team of about 70 students of Erode Arima Society Trust, Thindal, Erode in an orphanage home on 20th July 2013. 15 members volunteered for this TAP and conducted various events like memory game, multi tasking, musical chair, on the spot, dancing, singing, drawing, etc. A technical and inspirational talk on various courses of study was given to secondary and higher secondary students. The members and the office bearers of WIE extended their hands in helping these children through various means like funds and materials required by them. The winning students in various events were presented with prizes and chocolates.



Another Technical Awareness Program was organised on 2nd Aug 2013 for the students of Parents Matriculation School, Perundurai. 20 members volunteered for this TAP. About 45 students participated in the programme. In the morning session, after an introduction on the courses available to students after 10th standard a presentation about the universe was made. In this interactive presentation session, focus was on the scope of different fields available for them in high school and diploma at

various colleges. They were also made to understand the importance of keeping themselves updated on the technology trends. Students were encouraged to come up with queries and clarified. A 'Memory Game' which triggered the memory power of students was conducted. The afternoon session started with a multitasking event to test the multitasking skills of the students. It was followed by an activity where in the students were asked to find the proverb through actions. In the Quiz Quest, the young and energetic minds of students were challenged. The program came to an end with the discussion about the importance and focus towards their forthcoming studies and tips to face their board examinations. The students in their feedback, expressed their gratitude for enlightening them about higher studies, engineering and were also happy about the events which relaxed and kindled their minds.

Report by: S. Amirthamani, s.amirthamani@engineer.com

Karpagam College of Engineering

Special Lecture on Embedded System



The IEEE SB in association with Electronics and Telecommunication Dept. organized a special lecture on Embedded System by Mr. D. Mageswaren, Solution Engineer, Tech Mahindra, Bangalore on 26th Jul 2013. He explained about the embedded software, embedded hardware and latest research areas in embedded system technology, android systems and made the students to get awareness over the present embedded products and development. The lecture was informative to students as well as faculty. It

was also very interactive. The speaker also highlighted on the recent trends in embedded systems. The lecture contained recent application on embedded system in various fields.

Sri Ramakrishna Engineering College

Workshop on "Dream Career for future"

The IEEE SB organized a one day workshop on "Dream Carrer for future" on 20th July2013 with an objective to make the students to effectively plan their future by self assessment. The workshop started with the welcome address by K.Balamurugan, SB Counselor. The HR Manager of Robert Bosch, Mr. P. SivaKumar was the resource person for the workshop. His aspiring words made the students to have a clear perception about the dream and career. He explained the industry's expectation and the skills they demand from a fresh graduate. He made the workshop more interactive by encouraging the participants to share and query on their dreams and career. He further, emphasized the importance of the industrial interaction and the professional linkups and tieups to know the availability and positions in a corporate. About 30 students from various disciplines attended the workshop.

Guest Lecture

A guest lecture on "Career Extension and Guidance" by Dr. Vimala, Asst. Prof., Bharathiyar University, Coimbatore was organized on 2nd August 2013by the WIE SB. Over 100 students and faculties attended the lecture. The speaker, Dr. Vimala, one of the successful women in Coimbatore provided an insight into the transition of the roles of women two generations earlier and the current scenario. She emphasized the audience to know their hidden talents, skills and asked them to work on it. The speaker advised that the inferiority complex within the individual should be avoided and self-esteem should be developed. The speaker asked the gatherings to develop personality, self-confidence and their own self-respect to survive in this competitive environment. The speaker also detailed over the DO's and DON'T's that each and every women should follow in the society. The speaker's power packed words were admired by each woman in the gathering and inspired them too.

National Engineering College

CRYPT-ARITHMETIC



The event was aimed to encourage the students and make them a part of the core technical team in the college, right from the start. All the participants performed brilliantly and most of them solved all the problems within the stipulated time. The winners were chosen by judges based on the sharpness and accuracy. The winners of the event were: I Prize - Ms. J. Pavithra, III year ECE, II Prize - Mr . G. Chandrakala - II year CSE, and III Prize - Mr . Aravind - III year CSE.

Coimbatore Institute of Engineering and Technology

Seminar on Fundamentals of Business Analytics

The IEEE SB conducted a seminar on "Fundamentals of Business Analytics" for the final year students of CSE, ECE and IT on 26th July 2013. Mr. G. Ranjith, Placement Trainer addressed the students on the following topics;

- Business view of Information Technology Applications
- Types of Digital Data
 - o Structured data
 - Unstructured Data
 - Semi-Structured Data
- On-Line Transaction Processing
- On-Line Analytical Processing Architectures and Operations
- Data Models
- Business Intelligence Definition and Concepts
- Data Integration
- Multidimensional Data Modeling
- Enterprise Reporting

Sri Muthukumaran Institute of Technology

Membership Drive



The IEEE SMIT SB organized a membership drive for the second year students from EEE, ECE and CSE departments on 20th of the July. It was attended by 250 students. The session began with the welcome address by S. Divya after which Dr. R.M. Suresh, the Principal of SMIT addressed the gathering on the importance of being a member of IEEE and how to use IEEE for boosting the confidence level and achieving ultimate goals.

The chief guest, Mr. Hari Krishnan, Mentor, SMIT SB, started off with an ice breaking session and conducted ship wreck to make the students ponder on difficult situation and at the same time lift their interests.

Later Pooja Vijayaraj, chair WIE, presented on "Introduction to IEEE". A presentation on "WIE Affinity Group" was made by Ramya Hemant and Meenakshi Chaturvedi. The

benefits of IEEE were highlighted by M. S. Balaji and S. Vikash Koushik. K. Sindhuja, an ardent IEEE volunteer elicited the student's interest towards joining IEEE. The session came to an end with vote of thanks by Balaji. M.S, SB Chairman. Positive feedback was provided by the students.

Sri Eshwar College of Engineering

Technical Awareness Programme



"A Technical Awareness Program for Electrical Engineering Aspirants" was organized on 8th July 2013. Dr. T. Vijayakumar, Prof and HoD/EEE, presided over the function and welcomed the gathering. The program was organized for the benefit of second and third year students of EEE, to motivate and make them aware of the scope for an Electrical Engineer and also various career opportunities and the skills required for it. Mr. K. N. Karthikeyan from Apollo Tyres was the Chief Guest at the programme and addressed the participants highlighting the skill set required to sustain in any industry

Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya

IEEE Student Branch Inaugural Function



The IEEE SB was inaugurated on 24th Jul 2013 by Mr. H.R. Mohan, Vice Chairman, IEEE Madras Section and Chairman of IEEE Computer Society Madras Chapter and Associate Vice President (Systems) at The Hindu. The dignitaries at the inaugural included the Prof. K. C. Srinivas, Dean-Faculty of Engineering & Technology, Dr. M. Rathinakumar, SB Counselor & HOD/EEE, Prof Dr. M. Sivanandam, HOD/ECE, Branch Chair Mr. R. Purandhar and Vice Chair Mr. Venkata Sumanth.

The dignitaries' speech made the gathering feel energetic and they got an overview of IEEE and its benefits. Branch Chair Mr. R. Purandhar gave the welcome speech and outlined the plan of activities. Prof. K. C. Srinivas, in his address, spoke about the development of technology and highlighted the availability useful material in IEEE Xplorer and purposes of joining in IEEE. Mr. H.R. Mohan, in his detailed presentation, highlighted the organization of IEEE, features, benefits, society branches, awards, educational and professional services, scholarships, volunteer opportunities etc and then administered the IEEE Code of Ethics. He also touched upon the branch operations and know-how on various activities that can be executed under the branch.

Thiagarajar College of Engineering

IEEE Activities Inauguration



The academic year 2013-2014 for the Dept. of Electronics and Communication, IEEE Student Branch & ECE Association began with a grand inaugural function on the 3rd of July, 2013. The function was presided over by our principal Dr. V. Abhaikumar. Joint Secretary P. Singara Sudhan introduced our chief guest Mr. R.K. Malaviya, Secretary, Antenna Test and Measurement Society (ATMS). Mr. Malaviya gave us a brief overview of the process and technologies involved in designing and testing antennas. Joint Secretary M. Hariharan introduced our

invited guest Mr. Vincent George, Treasurer, ATMS. His brief talk was inspiring for all the young engineers. U. Dinesh, Chair, IEEE Student Chapter and Aravind Ram, IE Chapter Convener honoured the chief guests with mementos. The office bearers listed out the events planned for this academic year and the function came to an end with the vote of thanks.

Scad College of Engineering and Technology

Inauguration of IEEE student Branch



The IEEE SB was inaugurated organized on 23rd July 2013 by Prof. A. Darwin Jose Raju, Chairman of IEEE GOLD Affinity Group, and Execom Member, Madras Section. Mr. A. Mohamed Asarudeen, SB chairman welcomed the gathering. Dr. N. Mohamed Sheriff, Principal SCAD CET in his presidential address advised the IEEE members to be socially relevant, responsible and actively participate in the events which are to be conducted in this academic year and encouraged them to come up with innovative ideas.

The chief guest, in his address, explained about IEEE & its benefits to the professionals and students. He highlighted present day competition & importance of participation in the student activities. Prof. S. Vellaisamy, HOD/EEE, Prof. D. Jeya Mani Latha, HOD/ECE offered felicitations. Mr. S. Muthukaruppasamy, Assistant Professor & SB Counselor introduced the office bearers for the year 2013-2014 and also presented a brief report on the student membership and the activities. Mr. Jinesh conducted a student interaction session and answered the queries by student IEEE members. The programe ended with the vote of thanks by Ms. J. JESLIN BELLA, Vice chair, SB

Ranganathan Engineering College

Academia Industry Meet Phase II - REC AIM 2013



The REC Academia - Industry Meet (AIM) - 2013 Phase II was conducted on 10th Jul 2013. Placement related training programmes were organized for the students of EEE, ECE, CSE, &IT. In the first session Ms.Archana and her team from Aarons Academy emphasized the importance of computer networking through multimedia presentation. She highlighted the opportunities available in various companies all over the world. For better jobs, she insisted that students should improve their communication skills and other basic needs to meet the demands of organization. She also explained the

certification course in networking and its benefits and briefed about the placement and job security.

In the second session Mr.T. R. Madhavan, Sub Divisional Engineer, 3G Mobile Switching Centre, BSNL, Coimbatore highlighted the importance of Research and Development towards the economic development of the nation. He presented the statistical report on the growth of the Telecom Industry. He advised the students to update their knowledge and go for research activities in areas such as FDMA, TDMA & CDMA, GSM.

In the third session, Er. S. Kannammal, Deputy General Manager, Data Centre, TNEB, Coimbatore, emphasized that, apart from academics, social responsibilities are also a must for the engineering students. He said that students should first analyze themselves the positives and negatives in their life and then set goals based on their interests. He advised the students to develop themselves in communication skills, courage, attitude, time management, personality, leadership qualities, and also physical fitness to achieve their goals.

A Memorandum of understanding (MOU) was signed between Keymind Learning India Private Limited and Ranganathan Engineering College. Dr. P. Tamilarasi Murugesan, Chairperson, REI, Dr. R. Murugesan Chairman, Dr. S. Nithiyanandam, Principal, Mr. Anmol Vij, CEO and Mr. Rakesh, Keymind Learning India Private Limited were present during this occasion. They will focus on training the students in soft skills, aptitude, personality development, communication skills, and logical reasoning to achieve better placements.

Kalasalingam University

Workshop on "Image Processing and its Applications"



The IEEE SB organized a two days' workshop on "Image Processing and its applications" on 2nd & 3rd August 2013. Dr. S. Saravana Sankar, Vice-Chancellor, Kalasalingam University, inaugurated the workshop and lauded the efforts of the IEEE Branch in organizing technical events for the benefit of the students. Dr D. Devaraj, Dean, Planning and Development and IEEE SB Counselor welcomed the gathering and gave an overview of the workshop.

The resource persons for the program were Dr D. Devaraj; Dr. R.Balasubramanian Professor,

Manonmaniam Sundaranar University; Mrs. K. Punitha, Kalasalingam University; Dr. M. Balasubramanian, Assistant Professor, Annamalai University, Chidambaram; Dr. V. Masilamani, Assistant Professor, Chennai; Mr. A. Muthukumar, Assistant Professor, Kalasalingam University; and Dr. R. Narmatha Banu, Professor, Velammal Engineering College, Madurai.

The topics covered included: Basics of Image Processing, Image Segmentation Techniques, Image Processing using Matlab, Algorithms for Tomography, Biometrics and cryptosystems, Image classification and Feed forward Neural networks. In addition, the participants were given hands-on training using Matlab.

Students from Kalasalingam University and participants from various colleges attended this two days program. Dr. B. Kannapiran HOD/ICE and Dr R. Narmatha Banu, distributed the certificates to the participants. Mrs R. Sathya, Kalasalingam University proposed the vote of thanks.

Student Branch Website Contest 2013 for Region 10

IEEE MAS LINK is pleased to announce that the website of Jeppiaar Engineering College (Madras Section) http://jeppiaarieee.org/Beta has been chosen for 2nd Place with a cash award of USD350 & a Certificate.

This website will be representing R10 along with others selected at the global website contest for student branches.

Erode Builder Educational Trust Group of Institutions

Student Branch Inauguration



The official inauguration of IEEE SB and Association of ECE took place on 13th Jul 2013. Prof. D. Umamaheswari, HoD/ECE welcomed the gathering. After the presidential address by the trustee Thiru. S. N. Natarajan, director, Dr. P. Govindasamy offered felicitations. The association office bearers were introduced by Dr. C. Venkatesh, Dean, Faculty of Engineering.

Shri. T.S. Rangarajan, Chairman, IEEE Madras Section, after inauguration of the SB, briefed on the significance and benefits of the IEEE membership and

also emphasized the need for a professional membership. He advised the students to join IEEE and to volunteer with the activities of SB. He also insisted to initiate WIE affinity group in the institution. He then introduced the office bearers of SB for the academic year 2013-14.

Mr. R. Bharath, SB chairman presented a report on the proposed activities for this year. The Program ended with the vote of thanks by Ms.V.Manimala, SB counselor.

Erode Sengunthar Engineering College

IEEE SB activities inauguration and Guest lecture



The Inaugural function of the IEEE SB activities was organized on 13th July 2013. Dr. P. Selvan, Professor and Head welcomed the gathering. Mr. B. Ragavendra, Assistant Professor & SB Counsellor introduced the office bearers for the academic year 2013-14. Thiru. M. Balusamy, President delivered the presidential address. Thiru. S. Sivananthan, Secretary, Er. R. Mohanraj, Correspondent, Dr. A. T. Ravichandran, Principal and Professor. M. Palanisami, Student Affairs offered their felicitations. Mr. T. S. Rangarajan, Principal Consultant, Enterprise Risk Officer, TCS, Chennai & Chairman, IEEE Madras Section inaugurated the SB activities and delivered a guest lecture on "Rural Energy". Mr. J. Ganesh, SB Secretary proposed the vote of thanks.

St. Xavier's Catholic College of Engineering

ICEETS – 2013: International Conference on "Energy Efficient Technologies for Sustainability"



An International Conference on "Energy Efficient Technologies for Sustainability" technically co-sponsored by IEEE Madras Section and Education Society Chapter was organized by the Mechanical Engineering Department during 10-12, April, 2013. Resource persons from reputed institutions shared their knowledge in energy efficient technologies to a gathering of researchers, academicians, industrialists and students. The topics for deliberation in the conference were demarcated into six technical tracks as Alternate Energy, Building Technologies, Automotive Technologies, Modelling and Design, Manufacturing Systems and Power Systems. The conf. attracted delegates from all over the country and especially delegates from Delhi, Uttarkhand, West Bengal, Gujarat, Punjab, Uttar Pradesh, Bihar, Madhya Pradesh, Maharashtra, Odhisa, etc representing prestigious institution like IIT's and NIT's. Foreign delegates from Canada, Iran, Australia, and Bangladesh added the international flavour to the conference.

The conference featured 12 invited keynote talks and 247 selected full paper presentations from around 700 submitted papers.

The invited keynote talks include:

- "Doing Research" by Dr. Joshi C. Haran, Professor, Amirtha School of Engineering, Coimbatore.
- "ZeotophicMixure Biomass" by Dr. T. Srinivas, Professor, VIT, Vellore.
- "H2 Fuel Generation System" by Dr. S. Vasudevan, Principal Scientist, Central Electrochemical Research Institute, Karaikudi.
- "Biomass Gasification Technologies" by Dr. V. Kirubakaran, Professor, GandigramUniversity, Dindigul.
- "Trigeneration Cycle on Biomass Power Generation" by Dr. Bale V Reddy, Professor, University of Ontario, Canada.
- "Alternatives to HCF22 refrigerant for Air-conditioning Application" by Dr. D. Mohanlal, Professor, Anna University Chennai.
- "Energy Efficient Automotive Technologies" by Dr. G. Nagarajan, Professor, Anna University Chennai.
- "Green Building & Solar Power Cooling" by Dr. V. Antony Arul Raj, Professor of Easwari Engineering College, Chennai.
- "Smart Materials for Smart Applications" by Dr. M. Sreekumar, Professor, IIITDM, Chennai.
- "Combined Power & Cooling System" by Dr. R. Saravanan, Professor, Anna University Chennai.
- "Nanotechnology for Energy Efficient Technologies" by Dr. B.S.S. Daniel, Professor, IIT Roorkee.
- "HVAC Systems" by Dr. Ashok Kumar, Professor, College of Engineering Trivandrum.

The ICEETS 2013 Organizing Committee adopted full electronic paper submission system for transparency and efficiency. All the technical research papers were checked for plagiarism through iThenticate professional plagiarism checker provided by IEEE. Meticulous planning for technical presentation simultaneously at ten venues

with each venues having five sessions, accounting to 50 sessions, chaired by 100 chairs persons, who are eminent Professors from various institutions in and around Tamil Nadu and abroad made this conference a great knowledge sharing forum.

Dedicated and committed efforts of ICEETS team headed by the Conference Chair and Principal Dr. S. Joseph Sekhar, consisted of faculty members, research scholars and UG & PG students, backed by the management along with their entire machinery, especially by the Correspondent Rev. Fr. A. Jesumarian and Bursar Rev. Fr. Dr. A.S. Michael Raj made this conference a successful one. The conference was coordinated by the Organizing Secretary Dr. R. Edwin Raj, Coordinator of Research & Development Center

INSPIRE-13



INSPIRE'13 – An Internship program in collaboration with the Department of Science and Technology was held from 15th July 2013 to 19th July 2013. Around 150 students participated in the internship and were inspired to know more about the new technologies. The IEEE SXCCE SB was given an opportunity to conduct some non-technical events on 17th July 2013 at evening. The in charge for the event was Ms. Dhivya, IV-EEE.

The events started with a brief presentation on IEEE by Ms. Infant Jeya and Ms. Jeni Christy. Then a short video was presented on IEEE and IEEE SXCCE SB. Then some games

such as Blow the pyramid, Flash card games, Bouncing Ball and Adzap were conducted by the members. Prizes were given to the winners. All the participated students were given IEEE stickers. At the end all students were made to dance to the song "If you are happy and you know it clap your hands" to refresh them. All danced to these tunes including staff members

Jeppiaar Institute of Technology

Guest Lecture on "An Insight on IEEE"



The IEEE SB of JIT organized a guest lecture on "An Insight on IEEE" for the benefit of IEEE members 30th Jul 2013 by Mr. Nivas Ravichandran, R10 Electronics Communications Committee member as the resource person. He enlightened the members on possible IEEE activities that can be organized by the SB within the campus. He encouraged the students to make use of the IEEE membership as much as possible for their betterment.

Report by Mr. A. Madhusudhanan, amadhusudhanan@jeppiaarinstitute.org

IEEE Day Photo Contest 2013

The contest is open with the following prizes.

1st prize: \$7502nd prize: \$5003rd prize: \$350

• The Best Humanitarian Activity: \$500

• The Best Technical Activity: \$500

The Best Professional Dev Activity: \$500

• The Most Creative Photo: \$250

The Most Energetic Photo: \$250

• The Largest Gathering: \$250

• The Best "Landmark" Event: \$250

For details pl. visit http://www.ieeeday.org/photo-contest/

Judging Criteria

- The Photo must be inspired by year's IEEE
 Theme, which is "Leveraging Technology for a
 Better Tomorrow"
- Photos should show IEEE members in action (at work, at university, in a lab, in a classroom, ... etc) or in an IEEE event
- · Creativity and originality
- IEEE should be somehow present in the photo

Antennas and Propagation Society and the Microwave Theory and Techniques Society Chapters

Seminar on 'Research and Publishing'





A half-day seminar on "Research and Publishing" was organized by the IEEE Madras Section Chapters of the Antennas and Propagation Society (APS) and the Microwave Theory and Techniques Society (MTTS) in association with SAMEER - Centre for Electromagnetics, on 20th July 2013.

Prof. Krishnasamy Selvan of SSN College of Engineering delivered a talk on 'Perspectives on research and publishing.' This talk covered general reflections on quality, nature of research and originality, literature review, types of research papers and tips for improving writing skills. The talk concluded with a discussion of academic ethos including plagiarism.

Dr. P.H. Rao of SAMEER in his talk on 'The art of writing technical papers' offered general guidelines for writing technical papers for both journals and conferences. Selection of an appropriate journal for the submission of a manuscript, best practices for compiling and presenting research results were explored. Ways of responding to reviewers' comments were also discussed.

The seminar was attended by 67 participants, including 26 IEEE members. The participants included students (25), faculty, and professionals from R&D and industry. The sessions were interactive, asking questions and seeking clarifications.

Report by: Dr. Krishnasamy Selvan, selvankt@ssn.edu.in

Easwari Engineering College

IEEE Activities Inauguration and Mini Symposium

The inauguration of the IEEE SB activities was held on 12th July 2013 with Mr. B. Munirathnam, M.D, EyeGlobe Systems as the chief guest.

Dr. Saraswathi Janaki, HOD/ECE in her address cited the meritorious achievements of students in the previous academic year. The OBs for the current academic year were inducted. Mr. D. Abishek of 4^{th} Year ECE, Chairman, proposed the agenda of the SB year.

A mini symposium was followed the inauguration of the activities in which technical contests like circuit debugging, microprocessor based coding etc and nontechnical contests like Adzap, Gaming etc were conducted. The winners of the contests were awarded with cash prizes.

Report By: Dheeptha. M, dheeptha.m@gmail.com

Kumaraguru College of Technology

IEEE International Conference on Intelligent Interactive Systems and Assistive Technologies (IISAT'13)



Kumaraguru College of Technology organised an international conference on Assistive Technology on 2nd and 3rd August 2013 in collaboration with California State University, Northridge, California.

The conference was inaugurated by the IEEE Madras Section Chair, Mr. T. S. Rangarajan who explained about the theme of IEEE "Advancing Technology for Humanity". The speakers like Dr. S. K. Ramesh and C. T. Lin from California State University Northridge, Dr. Shengdong Zhao from National University of Singapore, Dr. Quoc Bao Vo from Swinburne University Australia presented their research on assistive Technologies while Dr. Sujatha Missal from Occupational Therapy Unit of KMCH and Mrs. Akila Vaidyanathan, an Autism Consultant shared their experiences and discussed the requirements of differently abled community.

During the preconference workshop, Dr. Ramesh and Dr. C. T. Lin gave a talk for three hours about the cognitive controlled wheel chair and other devices they are developing. Dr. Sujatha talked about the various assistive technology devices available with their therapy unit and demonstrated their use.

The different speakers from industry like Mr. Amit Anil Nanavathi from IBM Research Labs, Dr. Sriganesh Madhavanath of HP Labs India explained the part of industry in developing devices for accessibility and shared their research ideas. Ms. Priya Kuber from Arduino India captivated the students during the student session by her energy, passion and enthusiasm which inspired the students. Dr. Rajaraman who is retired from IIT, Madras was very eloquent on how technology should preserve India's heritage and called the students to take part in the campaign. Mrs. Dhrubaa Ghosh from Yahoo India gave a valuable and inspiring keynote on research opportunities in language processing.

The conference also had a special international project competition SS12 Asia 2013 which was organised for the first time in Asia. Owned by the team Project: Possibility with Google as partners, it has been organised in America and Europe but now brought to Asia with the aim of developing applications for the differently abled community. The first tier was conducted by pilot universities in Bangladesh, Pakistan and India which sent their final teams to the conference. The final winner was the team from Easwari Engineering College who developed a mobile application for voice activated chess game.

The conference was well attended by the students from Engineering and Medical Professions as well as faculty, research scholars, NGO members and industry participants.

Report by Dr. Ramalatha Marimuthu

Announcements

Teachers In - Service Program (TISP)

Date: 31st Aug 2013

Venue: Sudharsan Engineering College, Sathiyamangalam, Pudukkottai - 622501

Organised by: The IEEE Madras Section & R10 Educational Activity Committee

Co-ordinators: Dr. N. Kumarappan & Mr. A. Ravi

For registrations, pl. contact: IEEE Madras Section. Phone: +91 44 2442 3939. Mobile: 93823 28776

Email: ieeemas@gmail.com

IEEE Madras Section - Badminton Premier League

MAS LINK is pleased to announce the approval of the "IEEE Madras Section - Badminton Premier League" for funding of USD 700 by the SEC Team. Mr. B. Anand, submitted the proposal as an IEEE R10 Section, Subsection and Chapter Leadership and Social Activity. Details of the BPL will follow.

The All India Student Congress 2013

Dates & Venue: 3-6, Oct 2013 at Amrita University, Coimbatore.

It is a never before like opportunity for students to interact with and learn from various leaders and the top brass of IEEE.

The congress will provide impetus for its participants to observe, assimilate and learn from many inspiring sessions and thereby evolve as better leaders for taking on the challenges ahead. It will also be a unique opportunity for students from various disciplines and institutions to interact and exchange ideas and hence benefit mutually.

The congress promises to be an informative yet an enjoyable experience for all its attendees. The first three days will elucidate the various dimensions of IEEE and its host of functionalities, along with a number of fun packed and exciting events. The last day will cater to the raise awareness and bring in more involvement into two societies namely, IEEE Communication Society and IEEE Power and Energy Society.

Come, participate in the congress and ignite the transformation for a lifetime! More details at: http://www.ieeeaisc2013.org/index.php

IEEE Madras SIGHT in association with The Solarillion presents Solar Lamp Workshop and Contest

Solar Lamp Design Workshop

August 3 - Chennai August 10 - Coimbatore August 17 - Nagercoil August 24 - Salem August 31 - Erode September 7 - Tuticorin

Solar Lamp Design Contest

August 17 - Chennai August 24 - Coimbatore August 31 - Nagercoil September 7 - Salem September 14 - Erode September 21 - Tuticorin

October - Grand Finale at Chennai

Register now at http://goo.gl/97Vwe Contact: Mukundhan: 9600095291 or Arun Noel Victor: 9840175979

Congrats to IEEE WIE Madras Affinity Group for winning the 2012 WIE Affinity Group of the Year Award. The Award includes USD 250/= and a Certificate.

IEEE Mentoring Program

The IEEE Mentoring Connection is now the IEEE MentorCentre. Mentoring at IEEE now has a new name, new online platform and commitment to providing a valuable resource to IEEE members seeking a professional mentoring partnership. That means all the best practices you have come to expect from an IEEE mentoring program are in place, with ample opportunity to enter a unique mentoring partnership not found anywhere else.

What you will find with IEEE MentorCentre:

- The ability to connect with mentors based on specialized areas of practice, experience, IEEE societal
 affiliation and more;
- Opportunities to give back to the profession by registering as a mentor;
- Additional fields to narrow down the preferred profile of the mentor, and;
- Improved mentor controls allowing them to control how they are viewed in the system.

For more information on the program, go to www.ieee.org/mentoring

#OpenDataApps Challenge

NIC in association with NASSCOM presents #OpenDataApps Challenge to encourage data-driven innovation. Here's the chance to unleash your expertise in app development! Create unique and useful Apps across platforms and devices ranging from Mobile/Tablet, SMS to Voice-based applications using Open Government Data. This Contest is open to individuals, teams of individuals and business entities inside the territory of India. Participant(s) must be aged 18-years or older, on the date of submitting the application. You can Win... 1st Prize: 1,00,000 INR 2nd Prize: 50,000 INR in 3 Sectors to be decided by the Jury depending on the submissions. For details, pl. visit http://data.gov.in/appschallenge

IEEE Madras Section membership status as on 1st Aug 2013

Affiliate	11
Associate Member	115
Fellow	2
Graduate Student Member	1158
Life Fellow	2
Life Member	4
Life Senior	10
Member	2108
Senior Member	121
Student Member	6852
Total	10383

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IEEE MAS LINK

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