Chairman's Message

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Dear Members

I want to devote this message entirely to 'Social Media' and how IEEE Madras Section members can and should leverage these tools both for their personal and professional benefit.

In my interactions with members during conferences, events and other meetings I find the use of social media to be vastly stratified. Let me list some of the categories as I perceive them

a. Active IEEE Organizational Units on Social Media – R10, many sections, many societies, many society chapters, many affinity and special interest groups who are using Facebook, Twitter, Google + and LinkedIn to remain actively engaged with their members

b. Very active 'professionally' – almost 99% of whom are student members. They have created Facebook pages for their respective OUs in IEEE across the globe. They have liked, followed and joined the pages created by their contemporaries. They post updates on whatever news regarding IEEE they get. They are active in Twitter, Google + and LinkedIn too.

c. Extremely active 'personally' – I would say almost 'all' students and some members are definitely addicted to Facebook if not Twitter, Google + and LinkedIn.

d. Not present in Social Media at all – I bet there are quite a few, at least seniors who are yet to open their social media account.

A few years ago your section had coined a tag as its mission 'engaging members'. There cannot be a better way to realize that mission than engaging and interacting with all the members through these social media tools. Last week we had sent out a circular to you urging you to visit your section's page on Facebook. What we wish to achieve through that circular is to persuade the members who are not in social media, to join it upon seeing the circular and for those of you who use social media for personal networking to also consider it for professional networking.

The IEEE member 'friends' in my Facebook, Google + and LinkedIn accounts have the advantage of messaging me for whatever clarifications or help they need and get a quick response or a smiley ☺ at least. We can surely extend this advantage to other more resourceful members if we can connect with them.

By leveraging these social media, I also hope to enhance the visibility and use of our section website which already has links to these.

Today we are only scratching the surface of the enormous possibilities of networking, engagement, enhanced awareness, and mutual assistance that we can render to each other using this media. Let us aim to connect each member of our section into a giant resource pool of shared interests, availability and competence to travel to the next level of maturity

Till next time,

Yours voluntarily
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From The Editor's Desk

H.R. Mohan
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Dear Friends,

Our Section chairman, in his message has highlighted the impact of Social Media (SM) such as Facebook, LinkedIn, Google+ and Twitter, in the context of professional and personal networking and mutual development. While the student members are quite active with SM, it is the professionals and seniors who may soon to get in to SM. May be, the Section/Society Chapters will soon organise programmes on this.

The outcome of the recent R10 meeting appears to be very positive with the proposed "MGA Plan for India" to be steered by the IEEE Strategic Direction and Environmental Assessment (SD&EA) committee and assisted by our volunteers including Mr. T.S. Rangarajan, our Section Chairman. We hope the impact of this activity will be beneficial to us.

The vibrancy of the SBs are quite evident from the fact that we had accumulated backlogs in terms of activity reports to be published for want of space in our regular 12 page monthly newsltter LINK. Those SBs who have reported just in time (7th Apr) or later may find their activities are not published. They are reserved for the next issue. Be first to report the events as soon as you complete them.

Our Section activities, which are major in nature, are now being included in the India Council newsletter. This will be providing additional visibility to the SBs and OUs across the country. So, to get the benefits, report in time.

This month LINK has reports on events held at the following SBs along with the reports on Student Skill Development Programme on "Artificial Intelligence Methods in Engineering", Workshop on "Women in Electro Magnetics" organized by WIE, Madras, Solar Lamp Workshop organized by the IEEE SIGHT Madras Section and the Seminar on Signal and Image Processing organized by IEEE COMSOC Madras Chapter.

Kongu Engg College; Jayaram College of Engg & Tech.; Muthayammal Engg College; Jeppiaar Engg College; Easwari Engg College; S.A Engg College; Velammal Engg College; KCG College of Tech.; Mahendra Engg College; Amrita School of Engg; Sri Ramakrishna Engg College; SRM Univ.,; Saveetha School of Engg; Dhanalakshmi Srinivasan College of Engg & Tech; Sri Muthukumaran Inst. of Tech; Coimbatore Inst. of Engg and Tech.; Knowledge Inst. of Tech; MPNMJ Engg College; Infant Jesus College of Engg and Tech.; St. Xavier's Catholic College of Engig; Hindustan Univ.,; Kingston Engg College

We draw the attention of our readers to the forthcoming events list, at http://goo.gl/UaSa4 which is quite impressive with a wide range of workshops, seminars, FDPs, national and international conferences, to derive maximum benefit by contributing papers and sharing their research findings and update their knowledge by registering as delegates.

It is time to start new membership at 50% fee but with 8 months benefits. Pl. encourage your colleagues and co students to join IEEE and get benefited.

Kongu Engineering College

AVANZARE'13

AVANZARE'13, a two-day national level technical symposium was organized on 13th and 14th Feb 2013. After the welcome address by Prof. K. Narayanan, SB coordinator, Prof. S. Kuppuswami, SB Counselor and Principal, in his presidential address, extolled SB on receiving various awards from IEEE Madras Section. Mr. N. Gokulsankar, Chairman, SB summarized the agenda of the symposium. Mr. Tata Sudhakar, Senior Scientist, National Institute of Ocean Technology, Chennai inaugurated the symposium and in his address, explained about the on-going projects at NIOT such as deep-sea mining, gas hydrates, submersibles, ocean observation systems and coastal buoy deployment. The various events conducted include:Paper Presentation, Techno Exhibit, Idea Presentation, Visual Hunt, Dexterous Designer, Line Follower, Snap Shot, Quiz Whiz, Best Manager. Prizes were presented by Mr. S. Balamurugan, DEAN, Science of Communication and Computer Sciences to the winners.

On the second day of the symposium, a workshop on **LABVIEW** was conducted by Mr G. Sriram, Application Engineer, National Instruments. At the valedictory, Mr. G. Sriram highlighted the role of an engineer in the society. Then, the certificates were distributed to the participants.

GYANDYAN'13

The WIE SB conducted GYANDYAN'13, an interdepartmental function with various events for the IEEE members on 22nd Feb 2013. The function was inaugurated by Mrs.V.R. Saraswathy, SB Staff Coordinator. The events conducted include: Paper Presentation, Project Presentation, Quiz, Debate on 'Value of education in Government Colleges and Private Colleges', Google War and Visual Hunt. Prizes and certificates were distributed for various events.

TAP Programme

The WIE SB conducted a Training Program for school students in rural areas on 12th Mar 2013 at Lalitha Kalvi Nilayam School, Erode. A group of 40 students from 8th standard were provided the training on the educational stream by briefing on the courses of study that they could choose after the school education. Videos and presentations kindled the students interest in Engineering. Events such as Minute to win it, Word finding and Proverb finding were also conducted along with a Quiz and an innovative Multitasking event to test the multitasking skills of the students. The programme, came to an end with the discussion about the importance and focus towards their forthcoming studies. Students were also provided with tips to face the Board examinations. Certificates and prizes were distributed to students who were actively participate in the events and interacted well with the trainers.

STAR Programmes

The WIE SB conducted a STAR Programme for a team of about 40 students belonging to the 10th grade of Municipal High School, Edaiyankattuvalasu, Erode on **2nd Feb 2013**. The programme was inaugurated with a career guidance talk by Prof. K .Narayanan, staff coordinator.

'The WIE SB conducted a STAR Programme for the students of 8th grade of Panchayat Union Middle School, Manickampalayam, Erode on the **16th Mar 2013**. The aim of the programme was to create an awareness on the latest technologies and the career opportunities available. A squad of 40 students, accompanied by two teachers, participated in the programme which started with a career guidance presentation by Ms.V.R. Saraswathy, SB staff coordinator.

In both these programmes, a lot of team building and brain training activities such as multitasking, a general knowledge quiz, proverb finding, tongue Twister and other team events to improve their concentration and performance were also conducted. The students were encouraged to come up to the stage boldly and face the audience. After the lunch, the students were taken around sophisticated laboratories in the college and were exposed to the infrastructure of the college as well.

Report by: K. G. Preethi,
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Jayaram College of Engineering and Technology

Workshop on "Security Assessment and Enhancement using FACTS devices"

The SB organized a one day workshop on "Security Assessment and Enhancement using FACTS devices" on 22nd Feb, 2013. The chief guest and resource person was Dr. S. Sutha HOD/EEE, Anna University, Panruti Campus. Her areas of interest are Power System Security Assessment, Power System Enhancement Technique and Power System Optimization. In her presentation, she explained the Neural Schema of Power System and based on the

FACTS devices she also explained the power system assessment and power system enhancement techniques and provided a detailed

explanation about wavelet transform of neural networks, PSO optimization. In the afternoon session Algorithms with coding also had been executed in Matlab.

Around 13 Colleges and Jayaram Group of Institutions had participated in the workshop and acquired knowledge. Over 160 UG and PG students, faculty members, 91 participants of other colleges and 73 participants in our group of institutions had utilized the workshop. At the valedictory function, certificates were issued to the participants. The workshop was coordinated by the SB coordinator by M. Bhoopathi AP/EEE.

Muthayammal Engineering College

Guest Lecture

A guest lecture on "Recent Trends in Communication, Networking and Embedded System" was held on 7th Jan 2013. The guest was N. Sathi Saravanan, from ECIL Chennai, delivered the lecture and explained about soft computing techniques, Embedded System, Networking. In this programme, 200 students of ECE Dept. participated.

Technical Seminar on "4G networks" and Workshop on "MTLC Learning Framework"

In association with Wipro Technologies, Bangalore, a two days technical seminar on "4G

networks" and workshop on "MTLC Learning Framework" was organized during 28th Feb 2013 and 1st Mar 2013. Dr. S. Nirmala, HoD welcomed the participants and Prof. T. R. Suresh Kumar inaugurated the programme and introduced the chief guest.

The chief guest, Dr. M. S. Sricharan, Architect, Wipro Technologies, in his lecture outlined the developments taking place in the field of wireless communication and then explained the data flow in the existing and the fast growing 4G networks. He elaborated on the effective leadership by the project manager in handling the team in the various critical circumstances of the project execution. He also touched upon various aspects like Time Management, Stress Handling, Team Work, Technical and Behavioral Development etc., in the workshop. About 40 students of ECE participated in the programme.

Report by: V. Mathiazhagan,
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Jeppiaar Engineering College

Quiz Quest

The IEEE SB conducted a Quiz Contest "QUIZ QUEST" on 22nd Feb 2013. The students in teams were provided with a set of questions taken from various fields. The event was hosted by Mr. Santhosh Kumar and Ms. Chris Sahana. Followed by the Quiz there was a Puzzle game which proved to be engrossing one.

Report by: Santhosh Kumar. S,
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Technical Tour to Infosys, Mysore

The IEEE Madras Student Network organized a one day Technical Tour to Infosys Limited, Mysore Campus on 23rd Feb 2013, in order to expose the student members to the current trends in the IT industry. The technical tour agenda comprised of attending the nation-wide program, Spark organized by Infosys and a tour throughout the Infosys, Mysore Campus. There were 45 students from various engineering colleges of Chennai hub including Jeppiaar Engineering College, Sri Muthukumaran Institute of Technology, AMS College of Engineering, KCG College of Technology, Sathyabama University, RMD College of Engineering, Sree Sastha Institute of Engineering and Technology, Thangavelu Engineering College, Asan Memorial College of Engineering and Technology.

The students attended the Spark Program till noon, which focused on the advances Information technology has made, Infosys' role in the growth of IT and how students can learn from it all. The Campus tour around the Infosys Mysore Campus visiting the Largest Corporate University, Multiplex, etc. made the students

much excited. It was a fun filled yet an informative trip that boosted up the student members to gather with a larger community of technical world and get inspired.

Report by: Fathima Hathoon Nargis A,
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Basic Electronics and Circuit designing Workshop

IEEE COMSOC SB conducted a workshop on 'Basic Electronics and Circuit designing' on 13th Mar 2013, to enhance the student's knowledge on the basic electronic components, their working and application and how the basic circuits are designed. The workshop was well handled by Mr.Ramesh Subbu and Mr.Pawan Gnanaraj from KCG College of Engineering and was attended by 30 members from ECE Dept. The workshop started with a presentation on various components and later turned on to hands-on session where the students were given circuit component kit along with the soldering kit to build a circuit on a PCB board on their own.

Report by: S.P.Sree Rakshaa,
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Easwari Engineering College

Workshop on Android

A workshop on designing android applications was held on 22nd and 23rd of Feb

2013. The event was the initiative of IIT-BHU in association with Proactive-InfoSoft. Mr.Raghu and Mr.Tanzeel of Proactive-InfoSoft were the conveners. The participants mainly comprised of students belonging to ECE Dept. and from other colleges.

The workshop had four sessions. The first session dealt with the basic introduction to Android and its features and dealt the know-how required to effectively design the application. The second session introduced the participants to the software and provided a chance to explore

the various features covered in the first session by means of some simple programs.

The second day saw some rigorous coding and designing and the software was thoroughly explored by the students. Some apps like media player, SMS message app were developed. The final session was a competition in which the participants were asked to design an app for email sign in confirmation. The winners of the competition will have the opportunity to go to IIT-BHU and participate in the next level of the contest.

Report by: DHEEPTHA.M,
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S.A Engineering College

ICICES - 2013: International Conference on Information, Communication & Embedded Systems

The third International Conference on "Information, Communication and Embedded Systems organized by the Dept. of PG Studies in Engineering and supported by IEEE Madras Section was held on 21st & 22nd Feb 2013. At the inaugural, following the welcome address by Shri. P. Venkatesh Raja, Director, SAEC, Mr. Adam Kotkin, Vice Consulate General of USA, Chennai inaugurated and addressed the participants. Dr. Yi Pan, Georgia State University, Atlanta, USA, released the conference proceedings and addressed the participants highlighting the technological development happening around the globe including in India and the need for doing more research.

In this two days conference, 238 contributed papers were presented in four sessions in parallel at eight different venues in the areas such as Network Security, Pervasive Computing, Cloud Computing and Advanced Computing Technologies, Mobile Computing and Wireless Communications, Data Mining and Knowledge Discovery, Advanced Networking and Applications, Information Security & Information Retrieval, Artificial Intelligence & Soft Computing, Computer Applications in Web services, Bioinformatics, Global Optimization Problems, Multimedia Technologies, Grid Computing, 3G/4G Wireless Technologies, Advanced Communication Systems, Optical Communication & Networking, Sensor / Adhoc Networks, Medical Electronics, RF Antennas - Design, Modeling and Measurement, Computational Electromagnetics, Image and Speech Processing, Real Time Embedded Systems, MEMs and NEMs, Electrical Drives and Embedded Control, Computers in Embedded Systems, Nano-Photonics, Fuzzy Logic and Neural Network Technologies, Embedded Networking, Design of Embedded System with VLSI, Automation & Distributed Control Systems, Remote Sensing.

At the valedictory, Dr. S. Suyambazhahan, Principal, SAEC delivered keynote address. The participation certificates were presented by Chief Guest Dr. Yi Pan.

Report by: N.Mahendran,
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Velammal Engineering College

DSP on "An Overview of Issues in Nano Computing"

The IEEE Computer Society Madras Chapter supported ACM Distinguished Lecture on "An Overview of Issues in Nano Computing" by Dr. V. Lakshmi Narasimhan (Dr. VLN), Professor, Computer Science, East Carolina University, USA was held on 8th Jan 2013. Dr V. Yegnanarayanan, Sr. Prof. and Sr. Member of IEEE welcomed the gathering.

Dr. V. Lakshmi Narasimhan, after a briefing on ACM, in his lecture covered the various aspects of Nanotechnology and Nano Computing such as: Nano Scale, Nano Material, Brief history, Nano Technology for Nature, Broad areas of Nano Technology, Challenges and Opportunities in Nano Computing, Technical Issues in Nano Computing, Nano Computing through Molecular Computing, How Nano Technology is applied in IT, Energy, Medicine, Consumer Goods, NASA Mission Needs, Semiconductor Nanomaterials, Significance of Nanowires, Carbon Nanotubes, Nano Technology in Sports, Military Applications of Nano Technology, Nano Memory, Health and Environmental Concerns of Nano Technology, Potential human hazards of Nano Scale particulates, Nano Software, Atomistix Toolkit, etc., His talk appropriately educated all the audience about the niceties and issues in Nano Technology and Nano Computing.

KCG College of Technology

Workshop on MATLAB and Simulink

The IEEE SB conducted the workshop on MATLAB and Simulink during 15 – 16, Feb 2013 in collaboration with the IEEE Madras Student Network. The resource persons at the workshop were Dr. Vivek Rao and Mr. Venkatsubramaniyan Kuppusamy. The workshop was attended by enthusiastic students from Jeppiar Engineering College, Thangavelu Engineering College, Sri Muthukumaran Institute of Technology, AMET, Jeimathaji Engineering College and KCG College of Technology.

On the first day Mr. Venkatsubramaniyan and Dr. Vivek Rao explained the concepts of MATLAB and followed it with a hands-on session in the afternoon. On the second day, they explained the concepts of Simulink and followed it with a hands-on session in the afternoon.

Report by: S. Gayathri,
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Section Membership as on 1st March 2013

Life Fellow	-	3
Fellow	-	2
Life Senior	-	10
Senior Member	-	104
Life Member	-	3
Member	-	975
Associate	-	46
Affliate	-	6
Graduate Student Member	-	730
Student Member	-	2227
Total	**-**	**4106**

Mahendra Engineering College

Technical Symposium and National Conference

A two day National Level Technical Symposium and 7th National Conference on Innovations in Computing Techniques (Innovfest - 2013 & NCICT - 2013), in association with IEEE was organized by the Dept. of CSE on 14th & 15th Mar 2013. It provided a forum for industry professionals and researchers to deliberate explore and contribute their research to discuss the latest advancements & future directions in the emerging areas of Engineering & Technology.

Innovfest – 2013 was organized for the benefit of Under Graduate students to enhance their technical knowledge and provide innovative ideas. The Invited Guest Mr. Kalidass Subramani, Senior Specialist (People Soft Architecting), Wipro Technologies advised the students to find opportunity in each obstacle, which they face in their life. He also gave some valuable points to the participants to succeed in their life, which had motivated the young minds.

NCICT – 2103, was organized for the benefit of Post Graduate Students, Research Scholars and Faulty members. The Invited Guest, Padmashri. R.M. Vasagam, former Vice Chancellor of Anna University Chennai spoke about the recent computational model, which is becoming essential in storing and analyzing the data in the modern era, which has witnessed information revolution and explosion. He also shared about his working experience in Indian Space Program since early 60's and various visits to abroad Avionics centers.

About 300 technical and research papers contributed by by the students, faculty members and research scholars from various colleges across the nation were presented in 20 different domains of Computer Science and Information Technology.

Report by: Dr. P. Raviram,
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Amrita School of Engineering

Special Lecture on Empowering the Nation through YOU

A special lecture on "Empowering the Nation through YOU" was organized on 4th Mar 2013 in association with the Lions Club of Pollachi, CSI and ACM student. A special address was delivered by Mr. Paramasivam, Lions District Governor of 324B1. In the special lecture, Dr. Adhilakshmi Gurumurthy, Gynecologist and Former District Governor of the Lions Club emphasized the importance of Hard Work, Time Management, Working as a group (Team Effort) and other important qualities required by an individual to empower the Nation. As a part of this program, the Lions Club of Pollachi honored Mrs. S. Padmavathi, Asst. Porf., Dept. of IT, Amrita School of Engineering and Mrs.Thavamani, Pro-Vice Chancellor of Periyar Maniammai University, Tanjore, who have done exemplary service in

social activities in addition to their academic excellence. The student and faculty community participated in large numbers for the program.

Women's Day Celebrations

The IEEE SB organized a special lecture on "Women – Yesterday, Today, Tomorrow" on 7th Mar 2013 in association with the Lions Club of Pollachi, CSI and ACM student Chapters.

Kalaimamani. Andal Priyadarshini, Program Director of Doordarshan Kendra, Coimbatore was the Chief Guest. She spoke about how women can contribute to the society and also how women are suppressed in the society. Lion. Murugesha Pandian, PRO of Park Group of Institutions, Lion.S.S.Shanmugham, Vice District Governor and Lion. M.Shanmugham also graced the occasion. Dr.M.P.Chandrasekharan, Dean – Engineering, Amrita School of Engineering graced the occasion and presented memento to the Chief Guest. The student and faculty community participated in large numbers for the program.

These programmes were mentored by Prof.K.Gangadharan, Chairman-IT and organized by Mr.C.Arunkumar, SB Counsellor and Ms.K.R.Bindu, Faculty Coordinator of the ACM Chapter.

Sri Ramakrishna Engineering College

International Women's Day Celebration

The IEEE & WIE SB celebrated the International Women's Day on 8th Mar 2013 with a series of intra-college events such as Paper Presentation, Quiz and Debate. Around 110 students participated in these events. In a special lecture on "Women of today – The Balance Act" by Mrs.Nandhini Padmanabhan, Manager - HR, Payoda Technologies Pvt Ltd., Coimbatore, the speaker expressed her views about balancing

the role of women in society and encouraged the students to identify the passion for life, to enhance the skill set and to improve the confidence level towards the career. The certificates were distributed to the participants and to the winner of various events.

For the list of **forthcoming events** organized or supported by IEEE OUs, pl. visit http://goo.gl/s7ua8

SRM University

Symposium: TeleTech'13

A two days symposium - TELETECH'13, on "Recent Advancements in Telecommunication Technologies" was organized during 11-12, Feb 2013 by the Dept. of Telecommunication Engineering (TCE) in association with IEEE COMSOC SB and the Telecommunication Engineers Association (TEA) with sponsorship from DRDO, Govt. of India.

At the inaugural, Dr. C. Muthamizhchelvan, Director of E&T, SRM University, in his presidential address spoke about the past, present and future of telecommunication sector and provided many instances of how the industry played a key role in developing the social and economic level for progress of the country & the world.

Prof. D. Narayana Rao, the Director of Research, SRM University, emphasized on the digital aspect of today's technology in his special address. Dr. T. Rama Rao, HOD/TCE introduced the chief guest, Dr. Surendra Pal, President, IETE who presented the inaugural address on "Perspective in communication – Indian Space Paradigm". With his very informative and enlightening words, he said that a radical change has taken place in the communication arena of India and the world.

The afternoon session had an invited talk by Mr. Sobhan Babu, VP, Tata Communications on "Managing Telecom Networks", a guest lecture by Mr. Swapnil Kulkarni on "3D EM software FEKO - dealt with the real world E-M problems on field electromagnetic computation and a lecture by Dr. S.S. Karthikeyan, IIIT D&M, Kancheepuram on "Product Design for EMC Compliance".

The paper presentation session was beneficial to a large group of faculties and students from various colleges and universities who attended the symposium.

The 2nd day of the events included: an invited talk by Mr. P. Kishore, SC 'D', ISRO, Bangalore on "Challenge for system design in Q/V band" and another invited talk on "Telecommunication Technologies" by Mr. M. Ravindra Kumar, Scientist, DLRL, Hyderabad. The two-day fest also played a host to other technical and non-technical events such as Technoquest, Telepathy, Technolodean, Technoasis, Cross-O-Hola.

Report by: Dr.T. Rama Rao,
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Saveetha School of Engineering

Inauguration of IEEE Robotics and Automation Society

The Dept of EEE organized the inauguration of IEEE Robotics and Automation Society chapter and an informative technical lecture 27th Feb 2013. Mr. P. A. Manoharan, Chairman IEEE Robotics and Automation Society, Madras Section formally inaugurated the RAS chapter and selected the volunteers. In his technical presentation highlighted the robotics and its various applications.

Inauguration of IEEE Power and Energy Society

The Dept of EEE organized the inauguration of IEEE Power and Energy Society

chapter along with an informative technical lecture 4th Mar 2013 by Er. K. V. Rupchand Chairman, IEEE-Power and Energy Society Madras Section. After the formal inauguration of the PES chapter, Er. K. V. Rupchand, selected volunteers. In his presentation on "Future Technologies & PES", he outlined the scope and benefits of IEEE PES Membership for students as well as a professional members. He highlighted the future technologies in power system then the important role of renewable energy sources in India and the role power and energy society in the development of new technologies.

Report by: M. Venkateshkumar,
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Dhanalakshmi Srinivasan College of Engineering & Technology

National Workshop

The IEEE SB and the Dept. of EEE organized a one day national level workshop on "Soft Computing Techniques Applied to Electrical Engineering" on 6th March, 2013. The resource persons for this workshop were Dr. P. Sanjeevikumar, Associate Prof., VIT University, Chennai campus, Dr. V. Jamuna, Prof., Jerusalem College of Engineering, Chennai and Dr. R. Rengaraj, Associate Prof., SSN College of Engineering, Chennai.

The workshop covered the topics such as the conversional PI and PID controllers, importance of soft computing techniques, fuzzy logic controllers, neural network controllers with simple case studies and GA optimization techniques applied to design of above controllers.

The workshop was attended by 33 participants including faculty members and PG/Research scholars from various colleges. Dr. R. Ponraj, Principal distributed the certificates to the participants.

Report by: V. KARTHIKEYAN,
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Sri Muthukumaran Institute of Technology

Elicit Edison

The invention of light in world is an irreplaceable contribution given to us by Edison. Honouring him on his birthday, the IEEE CS SB organized the event "Elicit Edison" on 11th Feb 2013, which emphasized on bringing out solutions for technical problems. The students came out with interest in providing solutions to a no. of real time technical problems such as preventing corrosion current, decreasing the Carbon Di-oxide content resulting in reduced effect of global warming with the help of nano particles using nanotechnology. Solutions provided by the students Brajesh Bharti (CSE), S.Nalini (CSE), Pooja Vijayaraj (EEE), Ayesha Nilofar (CSE), Suganya (EEE) were appreciated. They were motivated to enhance their ideas in to technical research applications.

Report by: Vaishali Ravindran,
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Workshop on 'How to do a Project'

The IEEE COMSOC SB Chapter organized a workshop on 'How to do a Project' on 16th Feb 2013. About 70 IEEE members from various departments attended and benefited from this workshop. Ms. Kamala Tamilvanan, Executive Verbal Trainer, Smart Training Resources was the main resource person. The participants were made aware of the various criteria for selecting a project, fields/areas in which to do a project, steps in doing a project. She then then elaborated the 9 steps to be kept in mind whenever a project is done. Mr. G. Kottiswaran, Mentor, SB, presented on 'Benefits of IEEE'. Then Mr. M. M. Harikrishnan, Coordinator, Madras Section Student Network, in his address, highlighted on various resources of IEEE available to the students. Student volunteers Balaji. M.S and Suraj Jain. M explained the various steps for organising an event.

Report by: Maheswaran. P,
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Explore the World of Engineering – Membership Drive

The IEEE COMSOC SB conducted the event Explore the World of Engineering on 27th Feb 2013 with a motive to create an awareness of IEEE among the first year students. The Chief Guest Dr. C. Srinivasan, HOD, Science and Humanities gave an inspiring speech with several real life examples on the value of being a member of a professional society. A presentation on "What is engineering" by Balaji. M.S, SB Chairman provided the basic knowledge to know about engineering and was followed by a presentation on the benefits of IEEE by Suraj Jain. M, Chairman, IEEE COMSOC SB. Jayashree of 2nd year ECE shared her experience of being an IEEE member.

National Conference on Advanced Computing Technologies & Applications

A one day National Conference on Advanced Computing Technologies & Applications (NCACTA) on Friday the 8th Mar 2013. A the inaugural, the chief guest Mr. H.R. Mohan, Chairman, IEEE Computer Society and the Associate Vice President (Systems), The

Hindu traced the developments in the area of Information and Communication Technology and highlighted the current trends which include Social, Mobile, Analytics and Cloud (SMAC). He added that with the agility and innovation are the major forces in retaining our lead role in the global scene. One of the distinguished keynote lectures was delivered by Dr. Nalli Kuppuswami Chetti, Chairman, Nalli Business House who explained the importance of education to the women to empower them. Dr. Rekha Shetty, Managing Director, Farstar Distribution Network Ltd., in her address touched upon the significance of International Women's Day and the contributions of women in development. She also stressed the need for innovative approaches to excel in all our activities.

Chief guest and special guests were honored by Managing Trustee Thiru A.N. Radhakrishnan, Chairperson Tmt Gomathi Radhakrishnan, Director Dr. A. Kalyani and Principal Dr. G. Sankaranarayanan.

The conference attracted over 180 contributed papers of which about 90 were shortlisted for inclusion in the conf. proceedings and presentations in four parallel tracks covering various aspects of ICT such as Artificial Intelligence, Bio Metrics, Computing Methods, Data Mining, Image Processing, Network Security, Natural Language Processing, Software Engineering, and Wireless Networks. About 200 participants comprising of faculty, students and industry professionals attended the conf. and benefited.

Women Empowerment Contest

In the IEEE CS SB event conducted on 10th Mar 2013, as a part of Women's Day celebrations, the students participated actively and shared their pioneering and new-fangled ideas featuring women empowerment. The online event had contests such as Anagram, Guess the personality, phrase and essay contest and the winners were awarded.

Report by: Divya. S,
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Workshop on "How to Code?"

The IEEE CS SB took an initiative to equip the engineers with full-fledge coding techniques and organized an workshop on "How to Code?" on 14th Mar 2013. Mr. Kumaran A.E., Program Lead, Drona Technology Solutions briefed the students of II year CSE with the programming techniques, algorithm designing, coding methods and a step by step approach to solve the problems and design. The workshop not only included the explanation of concepts but also practical implementation. The workshop had two sessions. The first, theoretical session covered SDLC, difference between LPDC and SDLC, algorithm designing, construction of program and the second, the hands-on session, equipped participants with the technique rendered where they could design their own code.

Report by: Sreeda Sridar,
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Coimbatore Institute of Engineering and Technology

Seminar on "Operating Systems"

The IEEE SB conducted a one day seminar on Operating System Concepts for the Third year B.E / B.Tech – ECE, EEE students on 23rd Feb 2013. Mr. G. Ranjith and Mr. R.Rajat Sharma, Placement Trainers addressed the students on the following topics:

- Goals and major functions of operating system
- Memory management schemes: Demand paging; Page replacement algorithms; Segmentation
- Process Management: Process State Transition; Process Control Block; Scheduling

- Inter process Communication: Concurrency; Critical Section Problem; Mutual Exclusion; Semaphore

Project Contest

The IEEE SB conducted a Project Contest for the selective students of III Year B.E / B.Tech Students on 2nd Mar 2013. About 80 students participated in the contest. In the contest, students were divided into batches of 3 to 4 members and each batch was asked to select a project and perform the following steps related to the project.

- Feasibility Study
- Requirements Analysis: Software Requirements Specification; Functional Requirements; Non-functional Requirements; Domain Requirements
- Design: System Design; Detailed Design; UML; Software Design Document
- Coding: Selection of appropriate languages; CASE
- Testing: Test Plan; Test Cases; Test Report
- Implementation

At the end of the contest, each batch had also shown the demo to the audience.

Report by: Saravanan. B

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 27th and 28th 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 co-ordinators 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.

Report by Dr.N. Kumarappan, kumarappan_n@hotmail.com

Knowledge Institute of Technology

Spectrum Analysis – Discussion

On 16th Feb 2013, the IEEE SB organized **"Spectrum Analysis"** - Discussion on IEEE Spectrum Magazine in which student members discussed about different topics from recent IEEE Spectrum Magazine. Around 40 IEEE student members participated in the discussion, which was started by Mrs. M. Shenbagapriya, IEEE In-charge.

National Level Technical Symposium

On 22nd Feb 2013, IEEE SB and the ECE organized "ELECTRIX 2K13", 3rd National level Technical Symposium. During the inaugural function, the chief guest Mr. Sridhar Rajendran, General Manager-Human Resources in Simbus Technologies Pvt.Ltd., Bangalore addressed the participants from various colleges and KIOT students about career growth which was very helpful for their placements. Around sixty students have participated from various colleges.

After the inauguration, the students presented their papers in different areas like Image Processing, VLSI, Embedded System etc., parallel, spot events were conducted in technical and non-technical areas like Technical Quiz, Circuit Debugging, Google the world, and LAN Gaming. The winners of events were awarded with cash prizes.

Report by: M.Mathiarasi

IEEE Women in Engineering, Madras Section

Workshop on "Women in Electro Magnetics"

The International Workshop on "Women in Electro Magnetics" WiEM'13, sponsored by IEEE-Antenna Propagation Society, IEEE Women in Engineering, and cosponsored by Council of Scientific and Industrial Research (CSIR), New Delhi, Agilent Technologies and Ni Logic Pvt Ltd Pune was held on 1st & 2nd March 2013 at Kumaraguru College of Technology, Coimbatore. With 205 (84 men and 121 women) registered participants consisting of researchers from academia and industry and enthusiastic students contributing to bring out a lively two day interaction, the program turned out to be a success beyond expectation.

Dr. Parveen Wahid, Professor, EECS Department, University of Central Florida, Orlando, USA and Dr. Magdalena Salazar Palma, President of IEEE-Antenna Propagation Society and Professor, Dept. of Signal Theory & Communication, Universidad Carlos III De Madrid, Spain, were the international speakers sponsored by IEEE Antenna Propagation Society.

The program consisted of keynote addresses on technology and applications by Academia and Industry on interdisciplinary topics like "Computational Approach on numerical solvers used in CADFEKO", "Biomedical Applications of Electromagnetics"

etc. Experts from Agilent Technologies, Amrita University, Thyagaraja College of Engineering, PSG College of Technology and Ni Logic Pvt Ltd gave their best efforts to educate and entertain the delegates.

The poster presentation on "History of EM inventions" was a delight to the young student participants. The highlights of the event were, the video presentation on women role models (Dr. Bharati Bhat and Dr. Chatterjee) in Electromagnetics and the panel discussion on "After the Break" which was focused on the difficulties experienced by women returning to profession after taking a break for family or health reasons. It was moderated by Dr.

Raghavan, NIT, Trichy and the panelists were: Dr. S. Raju, Thyagaraja College of Engineering, Dr. Subharani, HOD/ECE, PSG College of Technology, Dr. N. R. Alamelu, Principal, Sri RamaKrishna Engineering College, Dr. Magdalena & Dr. Parveen Wahid.

The event has given the women students the confidence and interest to pursue research in the field of Electromagnetics which is a less women populated field. This is an achievement in itself since the field is considered tough and with the increased interest in computing and other automation related fields which are considered to be suitable for women the field of electromagnetics is facing the crisis of low interest.

M. P. Nachimuthu M. Jaganathan Engineering College

National Conference

The Association of Electrical and Electronics Engineering and the IEEE SB jointly organized the 5th One Day National Conference on 31st Jan 2013. In his keynote address, the chief guest, Dr. A. Nagappan, Execom Member IEEE Madras Section and Chairman IEEE Aerospace and Electronics Society, spoke on the exploitation of non renewable sources which causes depletion of precious resources such as fossil fuel, coal etc. and about the researches to

be routed in harnessing the renewable energy resources for sustaining the green environment. In addition, he explained the importance of

renewable energy sources such as solar, wind, geothermal and tide etc.,

In the conference, 20 papers selected out of the 180 papers received from various engineering colleges all over India, were presented. 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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Mark Twain Awards for Travel support

Infant Jesus College of Engineering and Technology

International Conference

The Dept. of ECE and the SB organized the International Conference on Emerging Trends in Computing, Communication and Nanotechnology (ICECCN2013) during 25th and 26th of March 2013 which attracted about 400 participants from all over the country and abroad. At the Inaugural, on 25th Dr.V.Velmurugan, principal, welcomed the gathering, Shri. T. S. Rangarajan, Chairman IEEE Madras Section inaugurated the conference and released the proceedings and spoke about plagiarism. Dr. S. Allwin, conference general chair and Director of Infant Jesus group of Engineering Colleges, in his presidential address advised the participants to be innovative in the highly competitive global environment.

Out of 713 papers received, after a peer review, 149 were selected for presentation and inclusion in IEEE Explore. The papers were presented in parallel tracks in the areas of Wireless Sensor Networks, Communication, VLSI, Power and Energy, Computing, Image Processing, Ad-hoc, MANET.

The following invited talks were delivered during the conf

- Dr. D. Nirmal, Professor, Karunya University on "MOSFET Architecture in Nano regime".

- Dr. B. Ramadoss Professor, NIT Trichy delivered a talk on "Emerging Trends in Computing".

- Dr. P. Bomanna Raja, Professor, PSNA College of Engineering & Technology Madurai highlighted the New Trends in Image Processing.

- Dr. P. Sanjeevikumar, Professor, VIT, Chennai delivered a talk on "Asymmetrical Multiphase AC Motor Drives".

The conference had a panel discussion on the theme by the panelists Dr. B. Priestly Shan, Prof. Sabarinath, IEEE Kerala Section, Prof. Arun and Prof. Deepu, St. Joseph College of Engineering and Technology, Kottayam, Kerala.

At the valedictory, Dr. V. Sundareswaran, Regional Director, Anna University, spoke about the importance of conducting conference and the importance of paper publication. The guest of honour, Major.V.V. Chandrasekaran, Hon. Secretary IEEE Madras Section highlighted the role of IEEE in academics. Dr. Prof. Sabarinath from IEEE Kerala Section highlighted the importance of the technical associations in keeping abreast with the ever changing information and communication technologies Dr. B. Priestly Shan, conference publication chair finalized and announced the awards for the best paper and the best presentation. T. D. Subash conference organizing secretary delivered the vote of thanks.

Report by T.D.Subash,
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St. Xavier's Catholic College of Engineering

Technical Gathering Meetings

The following technical gathering discussion meetings were held during Jan & Feb 2013.

- On 8th Jan, 2013, Ms. Arya, of 3rd CSE gave a presentation on new technologies of the world. After the presentation, the details of the Grass Hopper Conference on Women in Computing India held at Bangalore were discussed and the members were encouraged to attend the same.

- On 22nd Jan 2013, Ms. Annie Mary Varghese, of 2nd EEE, delivered a talk on "Solar Space Collector".

- A technical presentation on "Radio Frequency Identification-RFID" was made by Ms. Dhrisya, of 2nd EEE on 5th Feb 2013. Discussions were held on the forthcoming magazine of the IEEE SXCCE (10th issue). The proposal to conduct the soft skill program was worked out.

- A technical presentation on "Nano Humming Bird or Nano Air Vehicle (NAV)" was made by J. Girish Gowtham of 3rd EEE on 19th Feb 2013. Discussions were held on National Engineers Week and the Rainbow Project.

- On 26th Feb 2013, Mr. Janaki Raman of 3rd CSE gave a technical talk on "Ways to Improve Securities in order to avoid Online Hacking". WIE chair Ms. Ann Agnetta Chandru informed the members about the various competitionsto be held during the ICON'13 Symposium and encouraged the members to participate in them.

Sri Muthukumaran Institute of Technology

Workshop on Self-Defence

On 15th March 2013, as a part of Women's Day celebrations, a workshop on Self-defence for women was organized by the IEEE COMSOC Society Chapter. Prof. D. Shanthi Chellaih, HoD/ECE welcomed the gathering and Dr. G. Sankaranarayanan, Principal, delivered the Inaugural address. The chief guest Dr. Kalyani, Director, Meenakshi group of institutions, enlightened the participants with her vision on women's active participation in every sphere of life.

Mr. Anoop Madhavan, lead trainer and founder of Survival Instincts, explained the gathering on self-defence with the help of demonstration by volunteers. He elucidated on the instantaneous measures that women must impose in critical situations such as harassment and violence against them.

In the afternoon, after a talk on women empowerment by Prof. S. Sangeetha, Hod/MBA, 150 students from various departments participated in events such as 'Minute to win it', 'Addcraz' and 'Queen of the Quest' organized

by coordinators Koteeswari, Hamsa of 3rd year ECE along with the teammates Shilpa, Aleena, Jayashree, and Padmapriya of 2nd year ECE. The workshop ended up with the prize distribution for the winners.

Report by: K. Padmapriya, padmapriyak@ieee.org

Hindustan University

National Conference on Energy, Systems and Control

A two days national conference on Energy, Systems and Control - NCESC' 13 was organized by the Dept. of EEE in association with the IEEE Madras Section on 14th & 15th of March 2013.

Dr. K. Sarukesi, Vice-Chancellor, presided over the inaugural function. Dr. R. S. Shivakumara Aradhya, Additional Director, PSD, CPRI, Bangalore inaugurated the conf. and delivered the address on "Issues in grid integration of renewable energy sources like large wind farms". Dr. R. Devanathan, Dean, School of Electrical Sciences emphasized the importance of the conferences in the present day context. Prof. K. Shanthi Swarup, IIT Madras delivered a keynote address on "Smart Grid". The conference proceedings was also released at the inaugural session.

The second day of the conference started with the keynote address on "Energy Security - A need for future" by Mr. K. K. Rajan, Director, Fast Reactor Technology Group, IGCAR, Kalpakkam .

The conf. received over 200 papers from all over the country on various topics such as: Embedded Systems, Wind Energy Conversion, Energy Conservation and Nuclear Power, Electrical Drives and Control, Power Electronics & Power Quality and Solar Power Conversion. 41 papers including 4 industry papers were selected by an expert panel for presentation in the conf. in six technical sessions which were chaired by senior academicians.

Solar Initiative: Solar Lamp Workshop

IEEE SIGHT Madras Section has taken initiative to spread humanitarian technology among students by conducting a Solar Lamp Workshop on 15th March 2013 in SRM Easwari Engineering College. The Workshop was conducted in collaboration with IEEE Power and Energy Society and an NGO: The Solarillion Initiative.

The workshop was organized by Anand (Chairman), Antony Venus A.J (Vice Chairman), Arun Noel Victor (Secretary) along with Mukundan, Madhuri Narayanan, Salma Saithoon A, Nivedhitha R. Mr. Vinith Vijayaraghavan, CEO Panchabhutha and Ramesh Rajesh, Co-founder Solarillion, rendered immense support to the event as the NGO partners.

There were 115 participants from 10 institutions across Tamil Nadu. The objective of the workshop is to take the knowledge on solar power to the students and kindle their interest towards developing renewable energy projects. Ramesh Rajesh, Solarillion Co-Founder explained the mission of their initiative as to reach a million people to get benefitted with SOLAR Energy. The workshop was held in four batches. The session started with an introduction about SIGHT and Solarillion Team, need for the solar energy. Mr. Arun Noel Victor and Mr. Mukundhan provided hands-on training to the participants on basic electronics and solar circuit design. Following the workshop the teams are in the process of designing their own solar lamp to compete in the Solar Lamp Design Contest which is to be held on 13th April 2013.

Velammal Engineering College

Workshop on Mobile Cloud Computing

The TIFAC-CORE in Pervasive Computing Technologies, in association with IEEE Computer Society, Madras Chapter & CSI Div IV conducted a one day workshop on 4th Apr, 2013 on "Mobile Cloud Computing". The event was organized by Prof. B. Venkatalakshmi, Chief Coordinator, TIFAC-CORE and coordinated by Asst. Profs. Mrs. Anitha Julian and Mr. R. Ganesan with the aim to provide a wide spectrum of knowledge by choice of apt resource persons in the field. Around 50 external participants from educational institutions across South India, and 20 internal participants attended the programme.

Dean, Dr. S. Chandrasekaran welcomed the gathering. Principal, Dr. R.S. Kumar delivered the presidential address by encouraging the participants to aspire in gaining additional knowledge in the emerging technologies such as Cloud Computing and Big Data. The inaugural address was given by Mr. Yogesh Girikumar, Application Specialist, CSS Corp., who also delivered the first session titled, "Mobile Cloud – Implementation with Application Development" elaborating the concept of Mobile Computing, Cloud Computing and the integration of both to real world applications.

Mr. V.S. Raghunathan, Senior Technical Director, National Informatics Centre, Chennai illustrated in his talk on "Mobile Application Reusability – SaaS in Mobile Cloud Computing", a wide variety of useful applications currently implemented by NIC in the government sector and also gave a detailed report on its efficiency in our daily affairs.

The next session on "OpenStack use cases in Educational Institutes" by Mr. A.R. Rathinasabapathy, Co-founder. Solutions Architect, Cloudenablers, Chennai, gave elaborate information on the models of cloud architecture currently available. The session was also followed by an exciting Demo.

In the final session, IT expert, Mr. T.S. Rangarajan, Principal Consultant, Tata Consultancy Services, in his talk on "Challenges and Issues in Mobile Cloud Computing - Research Perspective", explained in detail the current research areas where one could apply the emerging technology.

IEEE COMSOC Madras Chapter

Seminar on Signal and Image Processing

IEEE COMSOC Madras Chapter, which has been organizing lectures, lecture series and seminars in Chennai, organized for the first time in Coimbatore a one-day seminar on Signal and Image Processing on 9th March 2013 at Sri Ramakrishna Engineering College, Coimbatore.

Dr M Jagadeeswari, HOD/VLSI Design welcomed the gathering. Dr N R Alamelu, Principal, SREC and Chairperson, IEEE COMSOC Madras Chapter gave a brief introduction on the activities of IEEE COMSOC Madras Chapter and on the Seminar. Dr R Prabhakar, Secretary, Coimbatore Institute of Technology, Coimbatore inaugurated the Conference. Dr A Ebenezer Jeyakumar, Director (Academics), SNR Sons Charitable Trust, Coimbatore presided. Mr P Subramanian, Secretary, IEEE COMSOC Madras Chapter & Assoc Prof, Aarupadai Veedu Institute of Technology delivered the vote of thanks.

The seminar had the following lectures.

- Dr. KA Narayankutty, Professor, ECE Dept, Amrita School of Engineering, Coimbatore spoke on the topic of *Compressed Sensing.*

- Dr. S Manigandan, Scientist-C, DRDO, Bangalore spoke on the topic *Video Signal Processing.*

- Dr. K Porkumaran, Principal, Dr N G P Institute of Technology, Coimbatore gave a lecture on *Biomedical Signal Processing.*

- Dr. PT Vanathi, Professor, ECE Dept, PSG College of Technology, Coimbatore gave a lecture on *Speech Signal Processing.*

- Er. Chioranth Patil, Field Application Engineer, CoreEl Technologies, Bangalore gave a presentation on the *Challenges in Multimedia Processing-Solution in Xilinx.*

Mr K Balamurugan, IEEE Student Branch Counselor, SREC, Coimbatore concluded the proceedings with a report on the seminar. The seminar was well attended by about 86 students, faculty and research scholars.

Kingston Engineering College

Guest Lecture

The IEEE SB organized a guest lecture on "Present Scenario in Power System" on 6th Mar, 2013. The guest speaker, Mr. C. Nallasivan, System Studies Engineer, Tamil Nadu Generation & Distribution Corporation (TNEB Ltd) Chennai, in his lecture provided a brief insight of power generation and power requirement across India. He highlighted how to reduce power losses in the transmission line. He encouraged, production of electricity using renewable energy sources (Solar and Wind energy) for domestic and commercial purpose. He also focused on "smart grid" advantages and its existence across the world. He had also screened few video clipping and made the lecture interesting.

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Posted on: 24th April 2013
Posted at: Egmore RMS (Patrika)

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