Chairman's Message

Dr. T. Thyagarajan
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Esteemed members,

At the outset, I convey my greetings to all the members on the eve of our 65th Independence Day.

Of-late, many student branches are requesting for uploading the conference proceedings in the IEEE –Xplore. Though it is a welcome trend, recently, we have received 4 complaints from HQ about Plagiarism. In this connection I furnish the following details downloaded from the IEEE website for your quick reference.

PLAGIARISM: Plagiarism is an unethical practice which can be of many different natures, ranging from copying texts to adopting ideas, without giving credit to its originator. The 5 levels of plagiarism are as follows:

1. Un-credited Verbatim Copying of a Full Paper or Un-credited Verbatim Copying of a Major Portion (more than 50%) within a Single Paper—An instance is where a large section of the original paper is copied without quotation marks, credit notice, reference, and bibliography. This case also includes instances where different portions of a paper are copied without attribution from a number of papers by other authors, and the sum of plagiarized material is more 50%, or Un-credited Verbatim Copying within More than a Single Paper by the Same Author(s)—This includes instances where more than one paper by the offending author(s) has been found to contain plagiarized content, and all the percentages of plagiarized material in each of the discovered papers sum to greater than 50%.

2. Un-credited Verbatim Copying of a Large Portion (greater than 20% and up to 50%) within a Paper.—An instance is where a section of the original paper is copied from another paper without quotation marks, credit notice, reference, and bibliography. This case also includes instances where different portions of a paper are copied without attribution from a number of papers by other authors, and the sum of copying results in a large portion of plagiarized material (up to 50%) in the paper, or Un-credited Verbatim Copying within More than One Paper by the Same Author(s)—This includes instances where the sum of plagiarized material from the different papers would constitute the equivalent of a large portion (greater than 20% and up to 50%) of the discovered paper with the fewest words.

3. Un-credited Verbatim Copying of Individual Elements (Paragraph(s), Sentence(s), Illustration(s), etc.) Resulting in a Significant Portion (up to 20%) within a Paper—An instance could be where portions of original paper are used in another paper without quotation marks, credit notice, reference, and bibliography.

From The Editor's Desk

H.R. Mohan
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Dear Friends,

This month chairman's message deals with an important issue – Plagiarism. IEEE Madras Section and some of the technical societies such as Computer Society, Communications Society, Power and Energy Society are getting sponsorship requests for the conferences being organized by the student branches of our Section. In view of the problems arising due to Plagiarism, our Section and technical societies are constrained to exercise caution in extending the sponsorship. A detailed SOP is being worked out on the guidelines for the sponsorship and the same will be shared with the conference organizers in a short while.

IEEE MAS LINK congratulates nine of our Section members (listed in page 9) including our execom member Dr. S. Baskar for having been elevated as Senior Members of IEEE during this year. We request other members, who qualify for the upgrade to apply for the same. Pl. refer to the LINK issue of June 2011 for details.

IEEE Computer Society, Madras Chapter congratulates and pleased to present books worth Rs. 1000/= to Mr. A. Maheshwaran, Student Member of IEEE & IEEE CS doing his 4th year B.Tech in IT at RMK Engineering College for having passed in the CSDA (Certified Software Development Associate) Examination of IEEE Computer Society. It may be noted that he is the first student member from our Section to have passed this examination.

As expected, the student branches have become very active and we are flooded with the activity reports for getting published in LINK. Though we were planning to restrict the newsletter to eight pages due to cost constraints, we did not have an option except to increase and restore our earlier page limit of 12 pages.

This month LINK reports the activities held at Latha Madhavan Engg College, Sri Venkateswara College of Engg, Thiagarajar College of Engg (3 events), EGS Pillay Engg College, Amrita School of Engg, Jayam College of Engg & Tech, PSNA College of Engg & Tech, Kumaraguru College of Tech (2 events), M. Kumarasamy College of Engg (4 events), Kongu Engg College, Jeppiaar Engg College (4 events), Aarupadai Veedu Inst. of Tech (2 events), Angel College of Engg & Tech, Sri Muthukumaran Inst. of Tech, Velammal College of Engg & Tech (MTT Society seminar), Madras Inst. of Technology – Anna University Chennai – MIT Campus, Francis Xavier Engg College, and Coimbatore Inst. Engg & Tech. Also, we have reported on the activities of IEEE PES and IEEE COMSOC.

Brief reviews of four text/reference books — "System Programming", "Data Structures Using C" , "Computer Networks", and "Digital Image Processing" appear in this issue of LINK. The publisher — Oxford University Press is willing to provide discount & free shipping to our members. Students and faculty members may pl. avail the offer.

LINK appeals to the professional members to contribute technical articles and share their experiences and present case studies which would interest our professional members and the student members at large.

We draw the attention of our readers to the announcement relating to "Forthcoming Events" and request to actively participate in them.

Inauguration of IEEE Student Branch at Latha Mathavan Engineering College

IEEE Communication Society, an IEEE student branch for the year 2011 was inaugurated in Latha Mathavan Engineering College; Madurai on July 25.Enigmated person, Dr.P.Venkatesan, BOYSCAST Fellow, PSU (USA), Executive Member of IEEE, Madras Section presided over the function. The function started with lighting the 'kuthuvilaku' by the dignitaries. Assistant Prof. N.Chellapandi IEEE Branch Councellor welcomed the gathering. Dr.K.Mathavan Chief Patron of IEEE addressed the gathering and briefed about the activities of IEEE Student Branch at Latha Mathavan Engineering College Dr.S.Marimuthu Chairman of IEEE spoke about the technicalities and benefits of IEEE. Prof. S. Sethupathy, Director LathaMathavan Group of Instution felicitated the function. Dr P.V Rajendra Sethupathi Vice principal delivered the key note address. Dr. P. Venkatesan introduced the new office bearers for the year 2011 and wished them all success and briefed the students on various IEEE events and highlighted its importance and benefits of being an IEEE member. The session ended with the vote of thanks by Ms.M.Hasina Praveen, Pre-Final CSE.

Office Bearers-2011

Chairman	-	Ms.Hasina Parveen, Pre-Final CSE
Vice Chairman	-	Ms.Ashrik Fareetha, II ECE
Secretary	-	Mr.Aravind, Pre-Final IT
Treasurer	-	Ms.Anish Fathima, II IT

Inaugural Event of IEEE Student Branch at Sri Venkateswara College of Engineering

The IEEE student branch of Sri Venkateswara College of Engineering, Sripeumbudur, organized the inaugural event for the year 2011-12 on 3rd August 2011. A seminar titled "What Next?" was delivered by the Chief Guest of the event, Mr. George Anand, Business Director, Semantics Learning Innovations who in his address had highlighted several key factors that engineering students should consider when they plan out their career options in the technical, managerial and entrepreneurial fields.

Mr. Ganesh Vaidyanathan, IEEE Student Branch Counselor announced new office bearers of the IEEE Student Branch for the academic year 2011-2012. This was followed by a short presentation titled "IEEE and You" by Mr.

Ramesh Rajesh, the Secretary of the IEEE Student Branch, which enlightened the students on how one could benefit from an IEEE student membership during their UG course. Several events were planned by the new office bearers, to be executed during this academic year.

Chairman's Message continued....

4. Un-credited Improper Paraphrasing of Pages or Paragraphs. Instances of improper paraphrasing occur when only a few words and phrases have been changed or when the original sentence order has been rearranged; no credit notice or reference appears with the text.

5. Credited Verbatim Copying of a Major Portion of a Paper without Clear Delineation. Instances could include sections of an original paper copied from another paper; credit notice is used but absence of quotation marks or offset text does not clearly reference or identify the specific, copied material.

The punishment varies according to the severity. Authors guilty of the most severe plagiarism can be prohibited from contributing work to IEEE-copyrighted publications for up to five years. Processing plagiarism cases involves engaging IPR legal experts from IEEE which is very expensive, time and effort consuming. Therefore for every case of plagiarism referred to IEEE Madras section, all the costs for processing will have to be borne by the concerned author/s, institutions and organizers of the conference.

Henceforth, IEEE Madras Section will support only those conferences that give an undertaking assuming full responsibility for plagiarism. Where a repeat of plagiarism is reported from the same institution, IEEE Madras Section will seek to derecognise the institution for all IEEE related activities.

Hence, I take this opportunity to appeal to all the organizers of the conferences with IEEE Madras section technical support to ensure that the plagiarism aspect is thoroughly checked by the reviewers before requesting for uploading the proceedings in the IEEE –Xplore.

Affectionate colleague
Dr. T.Thyagarajan

Report on the visit of Mr. K.V. Rupchand, Chairman, IEEE PES Madras Chapter to 2011 IEEE PES GM at Detroit, USA

I had the privilege and opportunity to attend the 2011 IEEE PES General Meeting at Detroit, USA during 24-29, July 2011 to present my paper "A proposal for meeting Power Demands of Electric Vehicle Transportation in India" and to be at the Awards function.

IEEE PES Madras Chapter has won the High Performance Chapter Award ($580) and Outstanding Chapter Runner-up Award ($400).

The Awards were announced at the Regional Leadership Meeting and Awards Dinner. Photos show Rupchand with Alan Rotz (President IEEE PES) and Ed Carlsen (Awards Chair.)

The event was studded with Members meeting, Plenary, Paper/Poster presentations, Students job fair, GOLD/WIE meeting and Tutorials. Technical presentations were in 15 parallel sessions. Attendance was 2300+.

Activities at Thiagarajar College of Engineering

Inauguration of IEEE activities

The student branch activities at TCE were inaugurated by Mr. G.Kalyana Sundaram, CEO, Great Innovus Solutions Pvt. Ltd on 1st Jul 2011. Dr. V. Abhai Kumar, principal and branch mentor delivered the presidential address. After the induction of the Office Bearers of the Student Branch, the chief guest gave notion for successful branch activities and enlightened on values of being an IEEE Member. Proposal for various activities to be held during academic year was made by the chair of IEEE, K.C.Harish, IV yr ECE. The programme ended on a happy note with the vice chair of IEEE, A. Sakthi, IV yr ECE addressing on the future plans of IEEE and thus setting a goal for the TCE IEEE Student Branch.

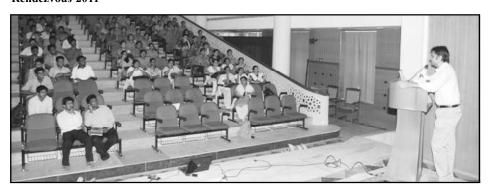**Workshop On "System Integration Challenges And Solution For Mixed Signal Design"**

To empower the engineers with knowledge on the frontier areas of electronics, a workshop on "System Integration Challenges and Solution for Mixed Signal Design" Was Conducted on 5th Jul. Dr. Madhavan Swaminathan, Professor from Georgia Tech, USA, a pioneer in the electronic industry was the chief gurst. He spent two days of his valuable time giving us an overview of the RF on Day 1 and the VLSI on Day2. The professor discussed at length about the evolution opf wireless communication and indicated that it remains as the main driver for "More than Moore" era. Further he elaborated on the use of how crystalline polymer(LCP) and Roger's Experimental Polymers(RXP). He identified "3D Ingtegration with Silicon Interposer" as the future technology and also the possibilities for 60 GHz application in the immediate future. He nonchalantly answered all the questions raised by the participants. He highlighted the importance of being aware of the latest technologies to make ourselves will-equipped so as to hold a significant position in the International arena of Engineers. The course was organized by Dr. S. Rajaram, Associate Professor and coordinated by Mr. Vinoth Thyagarajan, Assistant Professor, ECE Department, TCE.

Rendezvous 2011

Rendezvous is an initiative taken by the IEEE student branch at TCE to give an opportunity to the student members and students of the college to know of life in after college. Rendezvous 2011 was held on July, 7 2011 wherein more than 100 students from the college participated. The special invite for the day was Mr.Ananth Karthick Sunderrajan, Senior Associate, Projects at E&Y, Bangalore. Mr.Ananth had graduated from TCE during 2007. Mr. Ananth is unique in the fact that he switched over from engineering line to marketing line and emerged successful. Some of his valuable points he had shared with the students were

- The most important life skill learnt from engineering is debugging

- The most important thing not taught in engineering is accounting and finance.

- Commit to what u love and never do anything for someone else's compulsion.

- Treat failures as a revelation and a valuable experience as to what will not lead to success

- To survive outside Tamil Nadu, the most important survival tool is Hindi.

Inauguration of Student Branch at EGS Pillay Engineering College

The student branch chapter of IEEE was inaugurated at E.G.S. Pillay Engineering College, Nagapattinam on 20th Jul 2011. Dr. R. Rangarajan, Director, E.G.S. Pillay Engineering College presided over the function. Shri. P.A Manoharan, Technical Officer, DRDO, Chennai, was the Chief Guest at the function.

Dr. S. Ramabalan, Principal and IEEE mentor, Prof G. Giftson Samuel, Associate Professor and the student branch counselor participated in the inaugural function.

The function started with lighting the Kuthuvilaku by the dignitaries and was followed by the welcome address by Dr S. Ramabalan, Principal. A special honor to the Chief Guest and felicitation address was given by Dr. R. Rangarajan, Director. Prof G. Giftson Samuel, IEEE student branch counselor shared the happiness of getting the student chapter and introduced the Chief Guest.

Shri. P. A. Manoharan, spoke about the activities of IEEE and formally inaugurated the Student Chapter and introduced the new office bearers. The session ended with the Vote of thanks by Mr. R. K. Dinesh Kumar, Final year, EEE.

Office Bearers

Chairman	Mr. R. K. Dinesh Kumar, Final Year - EEE
Vice Chairman	Mr. N. Vignesh, Final Year - ECE
Secretary	Mr. N. Bhuvana Shankar, Final Year - EEE
Treasurer	Ms. S. Deepika, Pre Final Year - EEE

Seminar on Data Privacy-Challenges and Opportunities at Amrita School of Engineering

Amrita School of Engineering, Coimbatore IEEE student branch organized a one day seminar on "Data Privacy-Challenges and Opportunities" on July 28th, 2011. The seminar was delivered by Dr. Sachin Lodha - a research scientist from Tata Research Development and Design Centre, a research unit of Tata Consultancy Services. Budding engineers, post graduate students and researchers attended his seminar in addition to the IEEE members of Amrita University, Coimbatore.

Protecting the privacy of an individual's data is one of the top three concerns of Chief Information Officers in the world. It assumes even bigger proportion in the outsourcing world where data sharing is a must owing to business purpose, and legal and business consequences of any breach are enormous. In this age of globalization, organizations need to publish their microdata owing to legal directives or share it with business partners in order to remain competitive. This puts personal privacy at risk. Usual physical security measures, administrative controls, authentication machinery, and encryption based mechanisms are important for preventing unauthorized access to the data, but they cannot stop an

authorized user from breaching privacy if the original data is made available as is. Thus there is an inherent trade-off between the utility that databases can offer and the privacy they afford their constituents. Hence, there is a serious demand for cost effective privacy enhancing and utility preserving technology solutions which can protect individual privacy.

As a part of our research in data privacy, we are studying this trade-off formally, attempting to understand the relationship between privacy and utility. We will like to find a comfortable position between the extremes of fully disclosed and completely withheld data. Our researches have generated many peer reviewed publications and manifested into useful Privacy Enhancing Tools (PETs).

The workshop was mentored by Prof. K. Gangadharan, Chairman-IT, Dr. M. Sethumadhavan – Centre Head – TIFAC CORE for Cyber Security, Amrita Vishwa Vidyapeetham University and organized by Mr. C. Arunkumar, Student Branch Counsellor of IEEE, Amrita.

Report by: C.Arunkumar, arunkumarc@ieee.org

Research Seminar at Jayam College of Engineering and Technology

The IEEE Students Branch and Jayam College of Engineering and Technology jointly organized a one day Workshop on "Research Methodology" on 6th July 2011. Dr. G. Tholkappia Arasu, Principal, inaugurated the workshop in the presence of Shri.G.Venkatesan, Director, JCET.

Dr.S.Rita, Asst.Professor, School of Management Studies, VIT, Vellore was the guest and delivered a special lecture on "Role of Statistical Tools in Research". In her lecture, she had explained various aspects of research which include research process, types of research and testing of hypothesis. Prof.P.Umasankar, AP/ECE, Counselor of JCET-IEEE Student Branch proposed vote of thanks.

Inauguration of IEEE Student Branch at PSNA College of Engineering and Technology

The IEEE student branch was inaugurated at PSNA College of Engineering and Technology, Dindigul by Dr.T.Thyagarajan, Chairman IEEE Madras Section on 30th July 2011. The function began with a prayer song and the lighting of the traditional kuthuvilakku.

Prof. Dr. V. Rajasekaran, HODwelcomed the gathering. Prof. Dr. S.Sakthivel, Principal presided over the function and briefed the importance of IEEE student chapter in the college. Prof. Dr. K. Mahadevan introduced the chief guest Dr. T. Thyagarajan.

Dr.T.Thyagarajan, in his inaugural address, briefed on the importance and the benefits of IEEE student membership and invited the students to join IEEE.. He also addressed the students on how to do the project work, tips to prepare the abstract of the project and also delivered the essential tips to face the interviews.

The guest speaker, Mr.S.Elangovan Vice Chair, GOLD affinity group IEEE Madras Section, in his address briefed on the importance of GOLD affinity group. Mr. M. Kaliamoorthy, IEEE student branch counselor and Associate Professor Dept. of EEE introduced the office bearers for the year 2011-2012. The year plan for IEEE was also proposed by him. The Vote of thanks was proposed by Mr.B.Ganesh Prabhu, Chairman, IEEE student branch.

Report by: Mr.M.Kaliamoorthy,
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Activities at Kumaraguru College of Technolgoy

Awareness Program on Conservation of Nature

An awareness program on conservation of nature was organised on 2nd July 2011. The main intention of this program was to create awareness among the student community and make them to actively indulge in saving our mother land. Documentary films such as "SAVE TIGERS" by Shekar Dhathathri, Leonardo Dicaprio's "11th HOUR" which highlights the current issues threatening our living planet were screed. About 65 students attended this 1 hr 30 session which made the students to realise their role in conserving our nature.

Technical & Non technical talks

On 16th Jul 2011, a non technical talk by

Mr.J.C.Pannerselvam, Writer Self Confidence Magazine and a technical talk by Axis Global Automation were organised. The non technical session was a motivation class based on "Self Confidence". The speaker, Mr.J.C.Pannerselvam was introduced by

Prof .Sharmila Deve, IEEE staff-in-charge. The session was very interactive and lively. Few students were awarded the books written by the speaker for their active participation which was encouraging. After a short break, the students assembled for the technical talk based on automation. It was very informative and the video clippings screened enthralled the students to the automation field. The explanations about various technical devices were also helpful and the students were satisfied with the way they delivered their message. The students found the entire day to be very useful and the IEEE members were also happy at the success of the event and this team work will further bring out many successful events in the days to come.

Report by: Prof. Sharmila Keerthivasan

Activities at M. Kumarasamy College of Engineering

Inauguration of Student Branch Activities

IEEE student branch chapter activities for the year 2011 was inaugurated on 8th Jul 2011. Mr. M. Kotteswaran, Asst. HOD/MBA, presided over the function. Dr. D. Valavan, Principal Dr. S. Chitra, Vice Principal, IEEE Mentor Prof. K. Sundararaju, HoD/EEE, IEEE Student Branch Counselor and Prof. V. Kavitha, HoD/ECE, IEEE Student Branch Advisor, Chair person Mr. S. Arun Kumar and Vice Chair person Ms. J. Josh Ancy participated. Prof. K. Sundararaju, felicitated the gathering and briefed about the past year achievements and activities of IEEE Student Branch of MKCE and shared the happiness of getting the 'Best Activities' award for IEEE from IEEE Madras Section. Prof. V. Kavitha, addressed the gathering and briefed about the numerous activities and uses of IEEE in MKCE.

Our Guest of Honour took an interactive and very much informative session on 'Soft skills and Management skills'. He gave a short note on the preparation for an Interview and explained well about the managing skills to expose themselves in interviewing panel. That was very impressive and helped much in enhancing the knowledge about interviews. The Session ended with the vote of thanks from Mr. S. Arun Kumar, Final EEE, IEEE Chair person. With an amazing roll of 387 members, IEEE and WIE branch of IEEE, MKCE is waiting to make unbelievable progress in the forthcoming days.

IEEE Office Bearers- 2011

ChairPerson	-	Mr. S. Arun Kumar, Final EEE
Vice Chair	-	Ms. J. Josh Ancy, Final EIE
Secretary	-	Mr. R. Muthu Kumar, Final ECE
Joint Secretary	-	Ms. P. Anbumani, Final CSE
Treasurer	-	Ms. G. Prabakaran, Final EEE

WIE branch of IEEE Office Bearers- 2011

ChairPerson	-	Ms. S. Kishwar Jahan, Final ECE
Vice Chair	-	Mr. T. Ahmed Shameem, Final IT
Secretary	-	Ms. T. Soundarya, Final EEE
Joint Secretary	-	Ms. V. Naga Sushmitha, Final ECE
Treasurer	-	Mr. K. Saravana Kumar, Final EIE

Astronomical Space Program

IEEE student branch chapter had conducted Astronomical Space Program on the topic "Nearing Space with Innovative Inventions - an Overview" on July 21. Prof Mohan Sundara Rajan (India), a popular science communicator with four decades of experience in both print and electronic media presided over the function. Prof. K. Sundararaju, IEEE Student Branch Counselor felicitated the gathering and briefed about the Achievements of honorable Chief guest and the books written by Prof Mohan Sundara Rajan like "*Space Today*" (Five Editions) and its Tamil version titled Vinveli Vetri. Prof. V. Kavitha, IEEE Student Branch Advisor addressed the gathering and briefed about Prof Mohan Sundara Rajan as the only Indian author who had interacted with Neil Armstrong, the first man on the Moon and he is the only Asian selected by the Asian Development Bank (ADB), Manila, to become its Senior Editor and advised the students to make use of him to update their space knowledge and recent inventions.

Then Guest of Honor took an interactive and very much informative session on 'Nearing Space with Innovative Inventions ". He gave a short note on 18 popular science books, including the most recent titles on Space Technology, Nanotechnology, Wireless Telecommunications and Telescopes in India. He shared his experience of interaction with scientists and engineers in Space, Nanotechnology, Telecommunications and Biology in India and several countries including the USA, UK, France, Germany, Russia, and China Then he exploited the experience with world's first doctor cosmonaut, Boris Yegerov in Moscow and members of the Chinese Academy of Sciences in Beijing and hundreds of questions were raised by the IEEE pillars based on Space Researches and New Inventions. The Session ended with the vote of thanks from Ms. V. Naga Sushmitha, Final ECE, Joint Secretary of WIE branch of IEEE.

Hands on Training on "Embedded Systems"

IEEE Communication Society, a student branch chapter had conducted a Hands on training program in the field of "Embedded electronics" at M. Kumarasamy College of Engineering, Karur on July 22 and 23. Eminent trained persons from E'pro technologies enlightened the students on the basic building blocks of embedded system. The guest of honor was Mr. Shashi Kiran, Embedded Technical Lead at E'pro Technologies. After the welcome address by Mr.R.Vignesh, Final ECE, Chairperson of IEEE COMSOC, Prof. K. Sundararaju, IEEE Student Branch Counselor felicitated the gathering and briefed about the importance of electronic in everyday life. Prof. V. Kavitha, IEEE Student Branch Advisor addressed the gathering and highlighted on the tips to embed ourselves with IEEE COMSOC.

Models were provided to the student teams and based on which they were asked to frame similar kind of circuits with the involvement of all the members of the team. The students were taught to solder the circuits to frame an electronic working model. In the afternoon session, a demonstration of the software used for the compiling of the various components was held. On the next day projects were given to the students and they were provided with the necessary components to carryout the project. They were enlightened on the various codes integrated into a chip. It was an informative session and proved highly useful for the final year students so as to enhance their own project ideas. The Session was concluded with the vote of thanks from Ms. V. Naga Sushmitha, Final ECE, Secretary of IEEE COMSOC.

Programme on "Thermal Plant – Transmission and Distribution"

The IEEE student branch chapter had conducted the National Franchise program of ministry of power on the topic "Thermal Plant – Transmission and Distribution" on July 28 and

29. Eminent Industrial persons Er. Elamurugu, Er. Ravichandran and Er.Senthil Kumar from Rural Electrification Corporation Limited participated in the programme along with Dr. D. Valavan, Principal Dr. S. Chitra, Vice Principal, IEEE Mentor Prof. K. Sundararaju, HoD/EEE, IEEE Student Branch Counselor and Prof. V. Kavitha, HoD/ECE, IEEE Student Branch Advisor. After the lighting of '*Kuthuvilaku,* Ms. V. Naga Sushmitha, Final ECE, Joint Secretary of WIE branch of IEEE welcomed the gathering. Prof. K. Sundararaju, IEEE Student Branch Counselor felicitated the gathering and briefed about the Rural Electrification Corporation and their achievements in the field of Thermal Plant and Substations. Prof. V. Kavitha, IEEE Student Branch Advisor addressed the gathering and encouraged the students to get an updated knowledge from the eminent persons.

On the first day, the Guest of Honor took an interactive and informative session on 'Transmission and Distribution'. He gave a short note on Thermal Plant working and necessity for maintenance of components in Thermal Plant. Each and every component of the substation was explained practically by arranging an Industrial visit to Karur Substation on the second day. Moreover the difficulties experienced in Distribution sector were explained by the resource persons. This programme had helped the participants in enhancing the knowledge about problems faced by engineers and precautions to be followed by them for avoiding the difficulties. The programme ended with the vote of thanks from Mr. S. Arun Kumar, Final EEE, IEEE Chairperson.

Report by : Ms. V. Naga Sushmitha,
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FERRET-11 at Kongu Engineering College

FERRET-11, an Inter-departmental function for the IEEE/WIE members was organized by the IEEE/WIE student branch of Kongu Engineering College on 16th July 2011. "FERRET-11" was a hang-on package of talents, enthusiasm, enlightment, evolution, fun and spirit. Preliminary rounds were conducted for the various competitions and the selected students were short listed for the finals. The grand event of "FERRET'11" began with prayer song. The function was declared open by Mrs.V.R.Saraswathy, IEEE Staff-Coordinator.

The events for the day started with "Quiz", which was a test to the student's spontaneity, general knowledge, and shrewdness. The next event was "Debate" which was conducted between the short listed teams of six members each on the topic "Does India has potential to lead the World". It created a feel of being in a battle field with instant cheers from the audience. The day geared up with the excitement for the event "Emperor's Find" which focused on enhancing the "Crisis management" skills of the students. In "Emperor's Find", students were given lot of questions to be answered, and the answers will be found anywhere in the college campus.

After the lunch break, various on the spot events like "Traffic Jam" and "Cognizance" were conducted which enhanced the management and strategic planning skills of students. The next contest was "Visual Hunt" which has various rounds like "Memory game, Audio Visual round, Identifying advts. that were quite informative even for the non-participants. It was followed by "Marketing" which manifested the spontaneity and the ability to blend communication skills with humour.It gave an excellent finish to the function. On the whole,"FERRET-11" was a one day fun-feast and an innovative platform for the students to excel in every ground.

Book on Systems Programming

Author: Srimanta Pal. Publisher: Oxford University Press. Pages: 740. Price: Rs. 395/=

This book, after providing a background of systems programming and an overview of systems software, delves into machine structures and library structures and then explains in detail topics such as machine and mnemonic languages, assembly languages, macro language, macro programming, assemblers, linkers, loaders and object code translators. The aspects of compilers and operating systems are then dealt in detail along with a discussion on different system development tools such as editors and debuggers. A separate chapter is devoted for system administration.

While it meets the needs of the UG students of IT & CSE, it also serves as a ready reference for practicing software engineers.

IEEE Computer Society, Madras Chapter congratulates and pleased to present books worth Rs. 1000/= to Mr. A. Maheshwaran, Student Member of IEEE & IEEE CS doing his 4th year B.Tech in IT at RMK Engineering College for having passed in the CSDA (Certified Software Development Associate) Examination of IEEE Computer Society.

Activities held at Jeppiaar Engineering College

An Insight on IEEE

The IEEE Student Branch of Jeppiaar Engineering College organized an "Insight On IEEE" for the first year student members enrolled recently, on 6th April 2011. Mr. Manoj Reddy welcomed the gathering. Ms. Apoorva P Naidu highlighted the benefits of being a student member and various events being held within IEEE on the whole as well as within the student branch at the college. Mr. B Anand, Chairman and Mr. Rohit Jeyadev, Vice Chairman provoked the volunteering skills among the audience by conducting a fun-filled team-building activity involving high imaginary skills. The ice-breaker session, Logo Identification contest were held by Mr. Nivas Ravichandran. The response of the audience was tremendous. At the, Mr. B Anand, Chairman, on behalf of the whole team, expressed gratitude towards our branch counselor Mr. Sellakumar, under whose guidance this event was organized.

Training on how to run a Student Branch

On July 8th 2011, a training programme on "How to run a Student Branch" was conduced for the benefit of student members. The Branch Chairman, Mr. B Anand discussed with the members (about 50) about the proceedings of the branch and on the different roles and responsibilities to be adapted in event organization. Suggestions made by the members were recorded for reference. The team laid out an agenda for the current academic year with ample number of events. The event was beneficial to the students.

TECH FILM Event

In the Tech Film event held on 20th Jul 2011, the student members from 3rd year shared their knowledge with the help of video clips, on current innovative areas. Divya and Shobhi of EEE emphasized the need for development of WIND POWER TECHNOLOGY. Another team from EIE involving Ramalakshmi, Harini and Salma threw some light into the sector of AUTOMOBILE MANUFACTURING covering the complete process evolved,

followed by Arun Noel Victor of EIE highlighted on 3G and 4G technologies and also compared 2G with 3G and 4G.

Talk on Career Building

Mr. Sarith Nair, Trainer, IMS Chennai, in a session on Career Building held on 29th Jul 2011, motivated the 2nd & 3rd students to move on with their goals and plan well for their career prospects. The students learnt about the rounds in interviews during placements. Mr. Sarith stated the basic rules of GD and criticized the blunders made by the candidates during a GD and tipped on how to avoid them. After screening a sample video, a mock GD on "Can women be better managers than men?" was held. Further, he had highlighted the importance of entrance exams like GRE, GMAT, CAT etc., "Can Life After Graduation Bring A Change?" was his agenda of the session, which proved to be wrong. A Masters degree or an MBA would rather change one's own status from lifestyle to fulfilling one's commitments.

Report by: Apoorva P Naidu,
apoorva_7191@hotmail.com

Book on
Data Structures Using C

Author: Reema Thareja. Publisher: Oxford University Press. Pages: 668. Price: Rs. 345/=

This book is designed to serve as a textbook for the UG students of CSE and PG students of computer applications. It balances the theoretical aspects of data structures with their practical implementation.

After an overview of the concepts of C programming, pointers and functions are dealt. Following this, various data structures such as arrays, strings, linked lists, stacks, queues, trees, and graphs are detailed out. A separate chapter on efficient binary trees discusses concepts such as AVL trees, M-way search trees, B and B+ trees, tries, red-black trees, and splay trees. Chapters on sorting techniques, hashing, attributes and organization of files completes the coverage. Supplemented with suitable examples, the this book tries to impart a thorough understanding of the basic concepts.

Activities at AVIT

Seminar on Critical Reasoning & Career Opportunities

IEEE CS student branch, Association of Information Technology Engineers and the Dept of IT jointly organized a one say seminar on "Critical Reasoning & Career Opportunities" by Career Launcher, Chennai on 11th Jul 2011. Ms. B. Kavitha, Assistant Manager, Career Launcher, briefed on career guidance and Ms. Shilpa Bhatia, Sr. Manager, Career Launcher, focused on the importance of Critical Reasoning and created the awareness on Career Opportunities. Dr. (Mrs.) N.R. Alamelu Principal, AVIT, delivered the presidential Address. Dr. A. Anthony Irudhayaraj Dean (IT), Advisor, IEEE – CS Branch Chapter – AVIT welcomed the gathering and briefed on the importance of Career. Faculty members and students from the DIT attended the seminar and benefited. Mr. C. Karthikeyan, HOD/DIT delivered the Vote of Thanks.

Seminar on "Advanced Software Testing And Automated Testing Tools"

A one day seminar on "Advanced Software Testing And Automated Testing Tools" was organized by the IEEE CS student branch and Dept. of IT at AVIT on 13th July 2011.

Mr. Venkat Ramanan, Technical Consultant, Cegonsoft Pvt.Ltd, Chennai was the key resource person at the seminar. Dr. (Mrs.) N.R. Alamelu Principal, AVIT deleivered the presidential Address. Dr. A.Anthony Irudhayaraj Dean(IT), Advisor, IEEE – CS Branch Chapter – AVIT welcomed the gathering. Faculty members and students from Dept. of IT participated and benefited. Mr .C. Karthikeyan Head, Department of Information Technology delivered the Vote of Thanks.

IEEE Student Branch Inauguration at Angel College of Engineering and Technology

A new IEEE Student Branch at Angel College of Engineering and Technology, Tirupur was inaugurated on 30th Jul 2011 by Dr. Thyagarajan, Chairman, IEEE Madras Section & Prof. of Instrumentation Eggg, MIT Campus, Anna University, Chennai.

Prof. A. Pandian, HOD/EEE and Student Branch Counselor introduced the newly elected office bearers of the student branch for the year 2011. Mr. G. Prasanth, Chairman, Student Branch presented the annual plan for the year 2011. Dr. N. Gunasekaran Principal, Angel College of Engineering and Technology, Tirupur presides the function.

Dr. Thyagarajan, in his address, motivated the students by confiscating the panic over the topic regarding the UG project preparation and how to face the interviews. The address was very useful in all aspects. His speech was interactive & motivating. The sessions provided a deep insight into fundamental issues since all the students have been benefited.

It is felt that IEEE student branch will definitely play a substantial role in molding the career of all students. The staff members and IEEE student members of Angel College of Engineering & Technology actively participated in the program.

Report by: G. Prasanth,
prashu.guru@gmail.com

Book on Computer Networks

Author: Bhusahan Trivedi. Publisher: Oxford University Press. Pages: 700. Price: Rs. 395/=

Written in a easy and understanding language, this book starts with the fundamentals of networks and presents an overview of data communications and then covers in detail the concepts of OSI model, TCP/IP, UDP, fiber optic communication, IEEE 802 wireless standard, various network protocols, and other advanced concepts. In addition, it has a dedicated chapter on cryptography and network security.

With a well-balanced mix of theory and practice, the book features plenty of logical analogies and provides a rich combination of examples and exercises to help students assimilate the theory.

This book is suited for the UG students of CSE, IT and those pursuing MCA.

Book on Digital Image Processing

Author: S. Sridhar. Publisher: Oxford University Press. Pages: 660. Price: Rs. 395/=

This book is a basic textbook designed to meet the needs of UG students of CSE, IT, ECE & EE.

After the introductory chapters on image fundamentals & digital imaging systems, the book addresses the core topics such as image transforms, image enhancement, image compression, image segmentation, and colour image processing. It also provides an overview of research domains such as biometrics, stenography, image mining, and content-based retrieval systems.

A no. of numerical examples, review questions, numerical exercises, and MATLAB programs makes this book useful.

The accompanying CD has the MATLAB programs discussed in the lab manual, with representative input and output images and the images published in the book.

Mock Interview at Sri Muthukumaran Institute of Technology

IEEE student branch of Sri Muthukumaran Institute of Technology organized a National Level programme on Mock Interview on 23rd July, 2011 in the college campus. The event received overwhelming response from the students of various colleges. More than 200 students from 30 colleges actively participated. With 14 professionals from various reputed industries across multiple disciplines of engineering interviewing the students, the event proved a forum where the students analyzed their potentials to get placed in their dream companies.

At the inaugural session, Mrs. S. Kalaiselvi, Student Branch Counselor welcomed the gathering. Dr. G. Shankara Narayanan, Principal, SMIT, delivered the key note address. Prof.A.Mugugesan, HOD/EEE introduced the Chief guest Mr. A. Raja Mohan, General Manager(Finance), BHEL. The chief guest delivered an inspirational speech on the role of engineers in today's society.

The programme continued after a short break with various events which were planned for the day. After an aptitude test, group discussions and the personal interviews were held. There were 10 professionals assigned for personal interview, each interviewing 20 candidates and there were 3 professionals assigned for group discussions with each examining 70 candidates in a group of ten. The resource persons included the following:

- Mr Suguvanam Natarajan, Zylog Systems.
- Mr. T. Raghunath, Course Director T.I.M.E
- Mr Ganesh, CEO, Match Point.
- Ms.Shilpa Bahatia Centre Head, Career Launcher,
- Mr. Krishna Kumar, Centre Head, FACE,
- Ms.Aruna Sriram, HR Executive Talent Acquisition, RP Telebuy Sky Shop (P) Ltd,
- Mr.Narayanaswamy, ETL and Dataware housing Concepts, Infosys,
- Mr Pradeep Kumar, Technology Head, Scope International.
- Mr.Vijayaraghavan, Consultant, Intel Engineering Systems,
- Mr Lokesh.M.S, Project Engineer, Wipro.
- Mr.Felix Fedalies, Infosys
- Mr.Hemanth S, Former Leadership Advisor, JEC,
- Mr.Jayachandran, Former Secretary, JEC

After lunch, the students in an interactive session, put across their recruitment related queries to the resource persons who were happy and volunteered to answer such queries which provided the students with great knowledge

The program came to an end with the vote of thanks delivered by Mr.MM Hari Krishnan, Student Chair. The Student Branch expresses its sincere thanks to Mr.Thirumaran, Director Student affairs, Principal, and HOD of EEE department, volunteers and all the participants for making the event a grand success.

Report by: MM Hari Krishnan,
harikrishnan@ieee.org

IEEE MTT Society Seminar at Velammal College of Engineering and Technology

Under the auspices of IEEE Microwave Theory and Techniques Society of IEEE Madras Section, Velammal College of Engineering and Technology, Madurai conducted a seminar on "Antenna Trends and Technologies for LTE Wireless Applications" on July 20, 2011. Er. S. Deepak Ramprasad, Manager-Project, Thiagarajar Telecom Solutions, Madurai was the Chief Guest. Dr. S. Vasuki Professor and Head of ECE Department delivered the welcome address and gave an overview of the MTT Society. Dr. N. Suresh Kumar, Principal in his presidential address highlighted the opportunities and challenges in RF and Microwave field.

Mr. S. Deepak Ramprasad, the Chief Guest explained about the recent advancements in MIMO systems for Long Term Evolution and discussed the fundamentals of Antenna Theory with diversity techniques. He emphasized the significance of miniaturization of antenna and efficient utilization of Bandwidth in 3G & 4G wireless technologies. Also, he gave an idea about the real-time projects in RF field which can be done by the students of Electronics and Communication Engineering. He also highlighted the job opportunities available in the area of RF systems. Around 160 Students, Staff members and Research Scholars of ECE Department actively participated and benefited by this seminar.

Congratulations

IEEE MAS LINK congratulates the following nine Madras Section Members for having been elevated as Senior Members of IEEE during the year 2011.

- **Kumar Jagdeesh**
- **N. Malmurugan**
- **Paramasivam Venkatesh**
- **S. Baskar (Execom Member)**
- **Thangaraj Andrew**
- **K.B. Jayanthi**
- **A. Rajagopalan**
- **Christopher Seldev**
- **S.S. Vinsley**

International Conference on Recent Trends in Information Technology at MIT, Anna University, Chennai

The International Conference on Recent Trends in Information Technology (ICRTIT 2011) was held during 3 – 5, June 2011 at MIT, Chromepet, Chennai. It was organized by the Dept. of IT in association with IEEE Madras Section.

ICRTIT Pre-Conference Tutorials (3rd June) was inaugurated by Dr. V. Lakshmi Narasimhan (East Carolina University, USA) and Dr. S. Shanmugavel (Registrar, Anna University) presided over the function. Tutorial sessions were conducted in following topics:

- "Towards 4G Wireless Systems (WIMAX & LTE) BR" by Dr. M .S. Sricharan (WIPRO Technologies,   India) & Dr. Jackson Juliet Roy (Tata Elxsi, Chennai),

- "Wireless Sensor Networks" by Dr. V. Vaidehi (Department of IT, MIT, Anna University),

- "Free Open Source Software" by NFCFOSS Team (AU-KBC Research Centre, MIT, Anna University),

- "Information Retrieval" by Dr. C. Narasimha Murthy (IISc, Bangalore, India)

- "Current State of P vs NP Problem" by Dr. N. Srinivasan (NetApp, Bangalore, India).

ICRTIT Conference (4th & 5th June) was inaugurated by Dr. P. Mannar Jawahar (Vice Chancellor, Anna University), Dr. Xu Jian-Xin (NUS, Singapore) and Mr. Ram Viswanathan (IBM, India) presented the keynote addresses. Plenary Talks were delivered by Dr. Abhay Vaish (Ericsson, India), Dr. G.V.N. Apparao (CTS, Chennai, India), Mr. P. Balamuralidhar (TCS Bangalore, India), Dr. B. Ravindran (IIT Madras, India), Mr. M. K. Saravanan (Eastcom Systems, Singapore), Dr. P. Sreenivasa Kumar, (IIT Madras, India), K.N. Premnath (Nokia Siemens Networks Pvt. Ltd., Dubai), and Lakshmanan (Infosys, Mysore).

Around 240 papers were presented in various sessions. The proceedings of ICRTIT 2011 have been made accessible to international community via IEEE Xplore.

Awareness Program on Micro And Small Scale Enterprises Development at Francis Xavier Engineering College

The IEEE student branch of Francis Xavier Engineering College organized an awareness program on Micro and Small Scale Enterprises Development on 26th July 2011. Mr. Sathesh Kumar, Deputy Director, SME Development Institute, Guindy, Chennai was the resource person .The program started with a prayer song by H. Annie Wilfred of final ME -VLSI Design. IEEE Student Branch Chairman R. Parthiban welcomed the gathering. IEEE student branch counselor Prof. M. Selvi, HOD/ ECE introduced the resource person. Principal of Francis Xavier Engineering College Dr. K. Rajagopal delivered the felicitation address.

The programme coverage included: 1. Concerns of Micro Small and Medium Scale Enterprises reaching domestic and international markets; 2. New challenges and opportunities in MSME; 3. Various schemes in MSME promotion and 4. Cluster development .

Mr. Sathesh Kumar listed the various beneficiaries in forming clusters to improve the export. He also suggested, how to make a social change through Entrepreneurship .Through out the session he stressed the importance of Enterprises Development for nation's growth and the role of students in it. At the end of the session participants raised queries and clarified their doubts regarding MSME. The Coordinators of the event are Mr. G. Raja Kumar, & Ms. Mageswari, and about 180 final year students from various departments participated in the program. S. J. Nija of final ME VLSI Design delivered the vote of thanks.

Report by: A. Bellwyn

Section Membership as on 15th August 2011

Life Fellow	-	2
Fellow	-	1
Life Senior	-	7
Senior Member	-	92
Life Member	-	5
Member	-	1991
Associate	-	136
Affliate	-	35
Graduate Student Member	-	966
Student Member	-	6554
Total	**-**	**9,789**

Aptitude Test Contest for IEEE Students held at CIET

IEEE Students Branch of Coimbatore Institute of Engineering and Technology conducted an aptitude test contest for the IEEE student members on 22nd July 2011. Totally 60 students participated in the programme. The aptitude test contest comprised of questions from general awareness, recent technical trends, C programming language. The total number of questions was 20 and the time duration was 20 minutes. All the questions were of objective type and there was no negative marking. After the test was completed, evaluation was done and two students S.Arun, II year Mechanical and Mr.Logeshwaran, III Year ECE were selected as winners and they were presented with cash prize of Rs. 500/- each.

Report by B. Saravanan,
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IEEE COMSOC Lecture Series Programme

IEEE Communications Society Madras Chapter after the successful conduct of the lecture series in the last year conducted the first lecture series for this year. Mr Ganesh Balasubramanian, Engineering Manager - India, Amphenol Antenna Solutions delivered the lecture on "Antennas for Mobile Communication Base Station" wherein he dealt with the various antennas and design aspects. Shri Vijayaraghavan Rajagopalan, President – Business Solutions, LeadX Solutions and his associate Mr Sivakumar gave a lively presentation on the need for Aptitude Tests and approaches for clearing them. The lectures were well attended by 160 students from various Engineering Colleges. Earlier Mr P Subramanian, Secretary, IEEE Communications Society Madras Section welcomed the gathering.

Forthcoming Events

IAMA-2011: International Conference on Intelligent Agent & Multi-Agent Systems. 7-9, Sep 2011at Rajalakshmi Engineering College, Chennai in association with IEEE Madras Section, IEEE Computer Society, Madras Chapter, Computer Society of India, Chennai Chapter and Artificial Intelligence Association of India. Contact: enquiry@iama2011.org.in Website: http://www.iama2011.org.in/

ReSYM-11: Research Symposium on Pervasive Computing and its Underlying Technologies. 15 - 16, Sep 2011 at Velammal Engineering College, Chennai. Contact: Dr. A. Balaji Ganesh, Ph: +91-44-26591860 ; Mobile: 098427 91925; E-Mail: resym11@gmail.com & abganesh@velammal.edu.in

National Seminar on Medical Thermography. 21 – 22, Sep 2011 at SRM University, Chennai. For details, contact hod.bm@ktr.srmuniv.ac.in or visit www.srmuniv.ac.in or call 0-9790840279

National Power Electronics Conference, 19-22, Dec 2011 at Dept. of EE, Bengal Engineering & Science University, Shibpur, Howrah, West Bengal. For details, contact npec2011@becs.ac.in

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Posted On : 25th August 2011
Posted at: Egmore RMS (Patrika)

FROM:

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