Chairman’s Message

Dr. T. Thyagarajan
thyagu_vel@yahoo.co.in

Esteemed Members,

You are aware that there is a provision of paying the student membership fee in rupees. Some of the counselors sent mails requesting me to give the details pertaining to the same. Please be informed that, all the details regarding the rupee payment are given in the website: www.ieee.org/students OR www.ieee.org/rupee

By the by, in my last two month’s messages, I shared my thoughts about, ‘Looking West wards’ for pursuing MS program and the details about, “How to plan for pursuing Management Courses?” for the benefit of student members. This month let me present some of the important details from the website: http://gate.itim.ac.in/ about GATE 2011 to pursue ME/M.Tech, for your quick reference. Kindly check the authenticity in the official website before proceeding further.

About GATE: GATE is the acronym for Graduate Aptitude Test in Engineering. It is an all-India examination administered and conducted jointly by the Indian Institute of Science and seven Indian Institutes of Technology on behalf of the National Coordinating Board - GATE, MHRD. The GATE qualified candidates with Bachelor’s degree in Engineering/Technology/Architecture/Pharmacy or Master’s degree in any branch of Science/Mathematics/Statistics/Computer Applications are eligible for Master/Doctoral programmes in Engineering/Technology/Architecture/Pharmacy as well as for Doctoral programmes in relevant branches of Science. To avail the scholarship, the candidate must secure admission to such a postgraduate programme, as per the prevailing procedure of the admitting institution. GATE qualified candidates are also eligible for the award of Junior Research Fellowship in CSIR Laboratories and CSIR sponsored projects. Some government organizations prescribe GATE qualification as a requirement for applying to the post of a Scientist/Engineer.

Imp. Dates: Application forms (online and offline) for GATE are available during September/October. The Offline exam (with paper & pencil) for GATE is held on the second Sunday in February, while the Online exam (on computer) is held a few weeks earlier. The on-line and off-line examinations of GATE-2011 will be conducted on 30th Jan and 13th Feb 2011, respectively. In GATE 2011, 4 papers (AE, GG, MN and TF) will be conducted in the Online mode, while the remaining 17 papers will be in the Offline mode. The results will be announced in March 2011. The candidate is expected to appear in a paper appropriate

contd..... page 2

From The Editor’s Desk

H.R. Mohan
hrmohan@gmail.com

Dear Friends,

GATE is an all India examination and qualifying in GATE facilitate admission for masters and doctoral programmes with fellowship and also serves as criteria for appointment in some select cases. Our Section Chairman, in his third installment of tips, has provided the details on how to go about taking GATE examination. It is a timely update for the student community.

LINK congratulates Dr. D.P. Kothari, Advisor to Chancellor & Former Vice Chancellor, VIT University, Vellore for becoming an IEEE Fellow.

LINK congratulates Mr. M.S. Haresh and Ms. Sukanya – both from Velamal Engineering College, the winners of the Info Contest -1011 who will receive a prize of Rs. 500/= each sponsored by SRA Systems.

With this issue, we have cleared the backlog of publishing the reports on the events held at various student branches of IEEE in our Section. With the examinations and holidays around, we note that the activity rate has come down. In this issue of LINK, we have published brief reports of 20 events – inauguration of the Robotics & Automation Society Chapter, Conf. on Mobile and Adhoc Networks, Intl. Conf. on Communication, Control and Computing Technologies, Renewable Energy Mela, Workshops on Circuit Simulation, Solid State Device Modeling, C# and .Net, Python Programming, Labview Programming, FPGA based system design, Interaction Meetings and Guest Lectures held at different parts of the state.

We have started a new column “Books” and publishing short reviews on books which will be useful to our student and professional members. Publishers are coming forward to offer these books as gifts to the winners of the Info Contest – a regular feature appearing in LINK and the InfoQuiz appearing in the fortnightly CSI eNewsletter which also gets circulated to our members. Some publishers are willing to provide special discount and post free delivery of books. We are sure that our readers will welcome this column.

The combined student membership in IEEE, IEEE CS along with digital library access is available at USD 40/- for the year 2011. Those who are already members of IEEE, can become the member of IEEE CS at just USD 13/-.

COMSOC also has come out with special offers for the membership. We request the student counselors to encourage the students to avail these special offers of membership which are available for a limited period. It may pl. be noted that eMembership in IEEE at reduced rate (USD 50/-) is available for professionals along with facilities to make payment in INR.

We have listed a no. of ICT events which are planned in the immediate near future which provides opportunity to present papers or to participate and enhance the knowledge in different areas of CSE. Members, pl. make a note and benefit from the opportunity.

LINK requests the matter for publishing is sent by 8th of every month as per the guidelines available at http://ieee-cs-madras.managedbiz.com/guidelines-matter-for.ieee-mas-link.pdf We are still getting matter without confirming the guidelines. Pl. note that we will be constrained to ignore the matter if not submitted as per the guidelines.

LINK wishes all its readers a HAPPY AND PROSPEROUS NEW YEAR 2011.
Technical Lecture & Inauguration of Robotics & Automation Society

A meeting in association with M/s. Larsen & Toubro Ltd., ECC Division, Chennai was arranged on 30th Oct 2010 at Hotel GRT Radisson along with the Inauguration of Robotics & Automation Society.

The IEEE – Robotics & Automation society was formally inaugurated by Dr. T. Thyagarajan, Chairman, IEEE – Madras Section. In his addressed, he highlighted the advantages of membership in the society.

Er. S. Rajavel, Chairman, IEEE – Industry Applications Society (Madras Chapter) and Executive Vice President, M/s. Larsen & Toubro Ltd, Chennai introduced the guest speaker and also spoke about the salient features of Industry Applications Society.

Er. S. Malakar, Head – IT Systems, M/s. Larsen & Toubro Ltd., Delhi International Airport Ltd., delivered a presentation on “AIRPORT IT SYSTEMS” and he explained about various IT systems synchronizing the function of Airport. It was a highly educative presentation.

Chairman’s Message continued…

to the discipline of his/her qualifying degree. The candidate is, however, free to choose any paper according to his/her admission plan, keeping in mind the eligibility criteria of the institutions in which he/she wishes to seek admission. Requests for change of Test paper after the submission of Application Form are not considered.

Eligibility: Bachelor’s degree holders in Engineering / Technology / Architecture (4 years after 10+2) and those who are in the final or pre-final year of such programmes. Master’s degree holders in any branch of Science / Mathematics / Statistics / Computer Applications or equivalent and those who are in the final or pre-final year of such programmes. Candidates in the second or higher year of the Four-year Integrated Master’s degree programme (Post-B.Sc.) in Engineering / Technology or in the third or higher year of Five-year Integrated Master’s degree programme and Dual Degree programme in Engineering / Technology. Candidates with qualifications obtained through examinations conducted by professional societies recognized by UPSC/AICTE (e.g. AMIE by IE(I), AMICE(I) by the Institute of Civil Engineers (India)-ICE(I)) as equivalent to B.E./B.Tech. Those who have completed section A or equivalent of such professional courses are also eligible.

Examination pattern: The pattern of question paper depends on the paper code. For GATE 2011 examination, there are 5 different patterns of question papers. For Agri, Architecture, Civil, Chemical, Comp, Chemistry, ECE, EEE, IE, Maths, Mech, Mining, Metallurgical, Physics, Production; the GATE examination consists of a single paper of 3 hours duration which contains 65 questions carrying a maximum of 100 marks. The question paper will consist of only objective questions. In all papers other than Aerospace Engg (AE) and Textile and Fibre sciences (TF), all the questions are of multiple choice type. In AE and TF, the question paper will consist of 60 questions of multiple choice type and 5 questions of numerical answer type. For multiple choice type questions, each question will have four choices for the answer. For numerical answer type questions, each question will have a number as the answer. Each GATE paper has a General Aptitude (GA) component carrying 15 marks. For Geology, Engg Sciences (XE) and life sciences (XL) the pattern is different. The XE and XL papers are of general nature and will comprise of the sections namely (Engg Maths, Mat. Sci, Solid Mech, Thermodynamics, Polymer Sci, Food Tech) and (Chemistry, Bio chem., Botany, Microbiology, Zoology, Food Tech) respectively. A candidate appearing in XE or XL paper will be required to answer three sections apart from the General Aptitude (GA) questions. Section A is compulsory in XE paper and Section H is compulsory in XL paper. The candidate can choose any two out of the remaining sections listed against the respective papers, at the time of examination. The candidate will mark the correct answer out of four options in an Optical Response Sheet (ORS) by darkening the appropriate bubble (For ONLINE test, the candidate clicks the correct answer on a computer screen using a mouse).

Admission to PG Program: Candidates are advised to seek details of admission procedures and availability of MHRD scholarship/assistantship from the concerned admitting institution. The criteria for postgraduate admission with scholarship/assistantship are different for different admitting institutions. A candidate declared “GATE qualified at the time of admission” is entitled for MHRD fellowship for 24 months unless he/she loses it due to poor performance in the registered programme. You can clarify your doubts by mailing to gate@itim.ac.in

Affectionate office bearer
Dr. T. Thyagarajan

Free subscription to “Solid State Technology” magazine

Solid State Technology magazine is the longest-running semiconductor magazine and is the most complete source of information for the semiconductor & semiconductor packaging manufacturing industry and covers topics such as nanotechnology, semiconductor equipment, wafer processing, packaging design, IC packaging, packaging technology and other issues important to professionals. For a free subscription of the digital edition, pl. visit http://www.omeda.com/cgi-win/sst.cgi?p=NE10CA
ALCONESY’10 & IEEE Awareness at Alagappa Chettiar College of Engineering & Technology

ALCONESY’10, a two-day national level technical symposium was held at Alagappa Chettiar College of Engineering & Technology, Karaikudi on 6th & 7th Oct 2010 along with a IEEE Awareness Programme for the students on the inauguration day on 6th Oct 2010.

The event started off with the lighting of traditional lamp, as a token of bliss. The dynamism of events and the projection that the platform had on offer were elucidated in the welcome address by our Vice-Principal and HOD Prof. A. Mala. Our Principal Dr. V. Sekaran, addressed the gathering. He encouraged the students having beaming talents to grab every opportunity that comes by including joining IEEE. He also stressed on development of innovative thinking to transcend beyond boundaries.

It was heartening to meet and greet Dr. Suresh Chander Pal, our chief guest, who was alumni of our institution, to share his nostalgic pleasant memories of his younger days from 1954 to 1958 in the college, including his association with Dr. Rm. Alagappa Chettiar, a great visionary & founder of ACE Trust & cluster of educational institutions & the centre of excellence.

Dr. S. C. Pal accentuated on the importance of acquiring various skills, apart from degree. He wished the budding innovators to learn the values of life and enhance their knowledge & skills, through IEEE, for becoming successful professionals. With many energizing thoughts and stressing the need for maintaining highest code of ethical standards, in life, he complimented the organizers and wished the event to be a great success. He spoke on the benefits of IEEE and appealed to students to join in large numbers, for their empowerment through various capacity building trainings, global exposure, updating with latest technological knowledge and building self confidence.

With everyone’s anticipations and wishes, the event kick started sharply at 10.30 a.m. with the much expected video conference. The video conference titled TRANSFORMING VISION TO ACTION was fuelled by the rocket scientist from Tamil Nadu, Dr. Mylswamy Annadurai, Project Director, Chandrayaan I&II.

The one & half hour interaction through video conference was a delightful experience. Dr. M. Annadurai showcased a presentation on that title, later he went on cheerfully to answer the questions of our future scientists. The informative conference on Upgraded facilities in Chandrayaan-II & Space Vision of India, etc. was attended by our Principal, Vice-Principal, Chief Guest, Faculty members, Participants from other colleges and our own students.

In parallel, we had paper presentation session running, along with project presentations, by the students from different colleges, all over Tamil Nadu with novel ideas in various domains from renewable energy to artificial intelligence, Embedded systems, etc.

We had another session, in the afternoon, with Dr. P. Suresh Chander Pal, which was arranged at our request and this was devoted to guiding and enlightening our students of I and II years, about IEEE and towards their career oriented learning. Initially he gave some general tips on developing self confidence, career guidance, counseling etc and the ways to face the interviews. A PowerPoint presentation on the benefits & ways to joining IEEE was shown and explained. The benefits of being globally connected & getting international exposure were well emphasized. He suggested starting the IEEE Student Branch at ACCET, immediately and large student participation in Committees, like Newsletter, Website, Programme, Membership, Women in Engineering Affinity Group, GINL, GOLD etc.

Quiz (including Mastermind), circuit debugging and simulation were also conducted and the events aimed at provoking radical thoughts and had an appropriate response from the participants. The prizes for various events were announced and distributed and feedback was received from the participants for guidance for organizing ALCONESY’11, on a larger scale.

The valedictory function ended with the vote of thanks given by Mr. M.C. Thaneegaivelmurugan (IV EEE) Secretary of EEE Association. The workshop organized on 7th Oct. with the training, provided by Trident and TECHLABS, was very useful for all the participants, in the three simulating software, viz. 1. Techno-Motor design, 2. PSIM-Power simulator and 3. Power World. There were hands on session for 4 hours, arranged to check the skills learnt by the participants.

The workshop benefited around 230 participants. ALCONESY’10 / IEEE Awareness programme, was indeed a memorable experience and it was productive and very effective! We thank our faculty, Management and IEEE for their support and encouragement.

Report by Mr. M. C. Thaneegaivelmurugan

LINK congratulates Dr. D. P. Kothari of IEEE Madras Section and Advisor to Chancellor & Former Vice Chancellor, VIT University, Vellore and Former Director i/c, IIT Delhi for becoming an IEEE Fellow. He is being recognized for contributions in electrical engineering education.
ECSTASY-‘10: Technical Symposium at Francis Xavier Engineering College

The Electronics and Communication Engineering Department of Francis Xavier Engineering college organized the 8th National level Technical Symposium, ECSTASY-‘10 on 9th Oct 2010, in association with the IEEE Student Branch of the College.

The function started with the lighting of kuthuvilakkku by the Chief Guest, Mr. L. Louis Sam Titus, DGM / LMF / ISRO, Mahendragiri, Dr. K. Rajagopal, Principal, Prof. M. Selvi, HOD/ECE, Dr. T.V.J. Ganesh Babu, Dean-R&D, Mrs. T. Mageswari, Assistant Professor/ECE, Mr. T. S. Arun Samuel, Lecturer / ECE.

The Chief Guest, Mr. L. Louis Sam Titus, DGM / LMF / ISRO, Mahendragiri, in his keynote address traced the history and development of the Electronics and Communication field and discussed about the recent advancements in the technology like 3G and 4G.

Out of the 90+ papers were received from various engineering colleges 24 papers were short listed for presentation by a team of expert faculty members after a review. The Presentation took place in two venues with Prof. M. Caroline Viola Stella Mary, HOD/IT and Dr. T.V.J. Ganesh Babu, Dean-R&D, SCAD group of institutions as the juries. The papers focused on the emerging topics such as Embedded Systems, Nanotechnology, Image Processing, VLSI etc. The students were given 10 minutes for presentation, 3 minutes for queries and 5 minutes for Demo section (if any).

Adding to the thrill, there were many other events like TECH QUIZ (QUIZ contest), Circuit Debugging, Marketing, MATLAB Debugging. All the events were conducted smoothly by the respective staff and student-in-charge who kept the event well going and raised up the enthusiastic level of audience and the participants.

In the valedictory function, 3 best papers were presented with cash awards of Rs.1500/-, Rs 1000/- and Rs 750/- respectively for the first, second and third positions. Certificates were provided to the participants, who took part in the events.

Renewable Energy Mela 2010 at AVIT

The Renewable Energy Mela 2010 for the school students of Chennai, Chengalpattu and Kancheepuram districts held on 10th Nov 2010 was organized to popularize Science and to create awareness of renewable energy sources among the school students by the EEE Students Association, IEEE Power and Energy Society Student Chapter of Aarupadai Veedu Institute of Technology. This event was co-sponsored by Tamilnadu State Council for Science and Technology (TNSCST), IEEE Madras Section and IEEE Power and Energy Society (PES).

Dr. N. Veerappan, HOD / EEE Dept. welcomed the gathering and Dr. N.R. Alamelu, Principal / AVIT delivered the presidential address. The chief guest Dr. S. Vincent, Member Secretary / TNSCST inaugurated the Mela and explained the various benefits of renewable energy sources and requested the students to spread the thematic message of renewable energy among the general public, institution and industries. Er. K.V. Rupchand Chairman /IEEE – PES, in his special address, described the various sources of renewable energy.

About 500 students and teachers from 15 schools in the districts of Chennai, Chengalpattu and Kancheepuram participated in the various events like exhibition of working models, renewable energy treasure hunt, energy wise shopping, drawing, slogan, quiz competition, complete the incomplete story, elocution competition and mobile exhibition by TEDA. All the participated 500 students were given gifts. Both the participants and winners in the various events were given participation certificates and prizes.

Dr. R. Christodas Gandhi, IAS, Chairman / Tamilnadu Energy Development Agency, in his valedictory address explained what a renewable energy source is and emphasized the importance of the same for the future generation. He appreciated the interest shown by the various school students in designing and developing the various models of renewable energy sources. He also had the glimpses of the various models of the school students and visited the Bio gas plant installed at the Aarupadai Veedu Institute of Technology.

Section Membership as on 15th December 2010

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Guest Lecture on “IEEE Awareness” at Adhiparasakthi Engineering College

A guest lecture on “IEEE awareness” was conducted by IEEE student branch on 11th Oct 2010 at Adhiparasakthi Engineering College, Melmaruvathur. About 200 students from various departments have actively participated in the programme.

The chief guest was Dr. P. Suresh Chander Pal, Chair, Student Activity, IEEE Madras Section & Executive Vice Chair, IEEE India council. He gave the participants, a brief knowledge about history, objectives of IEEE and detailed views about the IEEE Student Branch and its benefits. There was an overwhelming response to his appeal for volunteers and he was pleased to nominate the principal officers and the Chairpersons of the various Committees, in the IEEE Student Branch. He spoke on the formations of the Newsletter, Website, Membership, Program, Publicity Committees and their duties. He expressed his desire that all the girl-students should join the Women-in-Engineering Affinity group, as they are Sakthis and the boy students are also nobar. He stressed on the ethical values and IEEE’s role in encouraging the spirit of volunteerism to serve the community, in various ways by taking technology to rural areas. He offered salutations and pranams to our revered Amma (Arulthiru Bangaru Adigalar), Founder, ACMEC Trust and Sakthi Tmt. Visalakshi Bangaru Adigalar, Vice-President and Sakthi Thiru GB. Senthil Kumar, Correspondent for their support and encouragement. He thanked respected Principal, Dr. S. Jayashri, for her keen interest in activating the IEEE Student Branch at this College.

Mrs. P. Tamizharasi, Branch Counsellor, IEEE Student Branch welcomed the gathering. She was very enthusiastic and wanted to activate the Branch by following the guidelines of IEEE. Mr. K. Moorthi, member, introduced the chief guest. Dr. S. Jayashri, Principal of the College, honoured the chief guest and Mrs. G. Anusooyya, member, IEEE Student Branch proposed the vote of thanks. The session was very useful, productive and interactive with the willing participation of the students. The students were kindled and were very enthusiastic in joining IEEE, and they were highly interactive.

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Membership Drive at Sri Muthukumaran Institute of Technology

IEEE Student branch of Sri Muthukumaran Institute of Technology, Chennai organized a program for membership campaign on 21st Oct 2010, for first year students of B.E and M.E in order to induct them into IEEE. The event had two sessions of 2 hours each involving various branches of students and was held at college auditorium.

Mrs. G. Janaki, Student branch counselor welcomed the gathering. The session began with an inaugural speech by Prof. A. Murugesan, HOD, EEE department. He gave an overall view of IEEE activities. Mr. Hari Krishnan, student chairman spoke about IEEE and the membership in IEEE. He also briefed the gathering how the members will improve their technical skills through IEEE. Ms. Kamala, Student member highlighted the benefits accrued by becoming a member of IEEE. Mr. Karthik, former IEEE student branch chairman shared his experience in the capacity as a member and chairman.

The speakers kept the students active through various activities and showcasing motivational videos. The response of the students was overwhelming. The session was an eye opener for many students in pursuing their goals as an engineer. The student branch expresses its sincere thanks to Mr. Srinivasan, HOD of S&H, HOD of EEE department, the student branch counselor for making the event a grand success.

Reported by: S. Bala Ragavendra, Secretary, http://ehw.ieee.org/sb/madras/smit/
NCMAN-2010: National Conference on Mobile and Ad Hoc Networks

A two days national conference on “Mobile and Ad Hoc Networks” (NCMAN) was organized by the Computer Society of India (CSI) Coimbatore Chapter at Dr. Mahalingam College of Engineering and Technology (Dr. MCET), Pollachi during 29-30, October, 2010 with the support of CSI Divisions 3 (Applications) & 4 (Communication) and Region 7 and IEEE Computer Society, Madras Chapter. Various corporate sponsors for the conference included Extreme Networks, Netcon and Precision Informatics. The conf. was attended by about 100 delegates who included Industry professionals, Academic faculty and students.

Mr. H.R. Mohan, Chairman, Division 4 of CSI and Associate Vice-President, The Hindu inaugurated the conference on 29th Oct 2010. Dr. Chenthur Pandian, Principal, Dr. MCET presided over the inaugural event. Mr. Mahendra Kumar, Chairman, CSI Coimbatore Chapter welcomed the conference convener, Dr. A. Rathinavelu, while giving an overview of the conference, informed that out of 200+ papers received, after thorough scrutiny by experts in the field, 60 were short listed for presentation in multiple tracks. He pointed out that the conference was truly national in character as papers had come from various research and academic institutions in states like Delhi, Gujarat, West Bengal, Maharashtra etc besides the southern states of Tamil Nadu, Karnataka, Kerala, Pondicherry and Andhra Pradesh. Dr. S. Vijayarangan, Director of Dr. MCET released the conference proceedings (both in print and CDROM) and Mr. H.R. Mohan received the first copy. Mr. A. Gowrishankar, the conference organizing secretary also addressed the august gathering and Mr. Prashant R. Nair, Secretary proposed the vote of thanks.

In his inaugural address, Mr. Mohan, traced the developments in the filed of communications and how the country has benefited by the advancements in this cutting-edge and pervasive technology. He also pointed out that any leading technology like mobile communication is a double-edged sword and had its fair share of problems and misuse in terms of cyber crimes. He added that the recent advancements such as Bluetooth introduced a new type of wireless systems known as mobile ad-hoc networks. These networks operate in the absence of fixed infrastructure and offer quick and easy network deployment in situations where it is not possible otherwise and typically used in Military scenarios, Sensor networks, Rescue operations, Students networking on campus, Free Internet connection sharing and Conferences. Mobile ad-hoc network is an autonomous system of mobile nodes connected by wireless links; each node operates as an end system and a router for all other nodes in the network. With the advent of 3G, these Ad Hoc networks are bound to become much more popular. Mr. Mohan also spoke about the CSI special interest groups in the area of communication.

Apart from the presentation of about 60 papers by researchers from all over the country, the conference had several keynote addresses by experts from industry and academia like Dr. P.T. Mathew, Principal General Manager, BSNL who spoke on 3G Mobile Systems and Dr. N.K. Karthikeyan, HOD-CSE, Sri Krishna College of Engineering, Coimbatore, who spoke on Wireless and Ad Hoc Networks.

On the second day, 30th Oct, evening, Dr. S. Subramanian, Chairman, CSI Division 3 distributed the certificates to the participants during the valediction. Dr. S. Vijayarangan, Director of Dr. MCET presided over the valediction.

A limited number of copies of the proceedings are available for distribution. For details, pl. contact Dr. A. Rathinavelu Convener, NCMAN, 2010, Professor, Dept. of CSE, Dr. Mahalingam College of Engineering and Technology, Pollachi - 642 003. Mobile: 9842304211, E-Mail: starvee@drmcet.ac.in

Report by Mr. Prashant R. Nair, Secretary, CSI Coimbatore & Mr. H.R. Mohan, Chair, CSI Div IV & IEEE CS

Workshop on “Circuit Simulation and SPICE” at Sri Krishna College of Engineering and Technology

IEEE student branch of Sri Krishna College of Engineering and Technology, Coimbatore conducted a training workshop on “Circuit Simulation and SPICE” for the benefit of students seeking rudimentary knowledge of Spice on 9th October 2010.

The main objective of the workshop was to provide the students with an essential knowledge of circuit simulation and spice programming required to get started with it.

The contents covered in the workshop include: Introduction to EDA tools, SPICE fundamentals and simulation, understanding PSPICE A/D and Multisim. Students were demonstrated and trained in OrCAD and Multisim through hands-on-sessions. The sessions were handled by Mr. N. Krishna Prakash, Department of Electrical and Electronics Engineering.

About 60 students, including 20 IEEE student members from Electrical and Electronics Engineering department benefited from this workshop.

Report by: N Krishna Prakash, krishnaprakash@ieee.org
Workshop on “Solid State Device Modeling” at Thiyagarajar College of Engineering

The IEEE student branch of Thiyagarajar College of Engineering, Madurai conducted a three days workshop during 26-28, Nov 2010 on “Solid State Device Modeling”. The workshop instructors were Dr. N. B. Balamurugan, Mr. V. Vinith Thyagarajan, Mr. V. R. Venkatasubramani and Mrs. K. Kalyani.

In the inaugural session, Mrs. K. Kalyani gave a broad overview of MOSFET devices and the details of modeling a basic MOSFET. A session on advanced MOSFET modeling and RF modeling was taken by Mr. V. R. Venkatasubramani. On the second day, Dr. N. B. Balamurugan handled a session on Noise modeling and Mr. V. Vinith Thyagarajan gave valuable inputs about BSIM modeling. In the last day’s session they dwelled more on MOSFET models, and the effects of modeling process, variation, device mismatch and quality assurance.

Dr. N. B. Balamurugan coordinated the workshop and ensured the successful conduct of the programme. It was an interactive workshop with active participation of students from electronics and communication department. At the end of the session, the student participants asked queries and got their doubts cleared. Indeed they had days of valuable inputs on solid state device modeling.

Report by: K. Kalyani, Branch counselor

Workshop on “C# AND .NET” at Coimbatore Institute of Engineering and Technology

CIET - IEEE Student Branch of CIET conducted a 2-day workshop on “C# and .NET” on 9th and 10th Oct 2010. The workshop was sponsored by IEEE Madras Section with Rs.10, 000/-, 105 IEEE student members were participated in the workshop. Mr. B. Saravanan, IEEE Student Branch Counselor inaugurated the programme and highlighted the various activities conducted in the last one year under the IEEE section.

Ms. N. Padma Priya, Software Engineer, Majestic People Info Tech, Coimbatore was the resource person at this two days workshop. In the first day, the the sessions covered the .Net framework, C# fundamentals, Win forms and ADO .Net features. The second day sessions included XML, ASP.NET, Data Access in ASP.NET, Web Services and Security issues. Sample demo projects were also presented to the participants for providing some practical exposure.

At the end of the workshop, students interacted and clarified their doubts. Certificate of Participation was distributed to the participants.

IEEE MAS LINK
Info Contest

H.R. Mohan
Chairman, IEEE CS, Madras Chapter
AVP (Systems), The Hindu, Chennai

Info Contest - 1012
1. The charge of the neutron is ———
2. The SI unit of voltage is named in honour of ———
3. The ——— of the resistance is known as conductance
4. Energy = Power & Time. State True or False
5. The Ammeter is always connected in parallel to the element to measure current. State True or False

Email your answers by 5th Jan 2011 to hrmohan.infocontest@gmail.com with subject “Info Contest - 1012”. Please provide your name, designation, company/institution, full postal address (to send the prizes) and the contact phone nos. after the answers. The first person to answer correctly and one randomly selected lucky winner will be presented with the books whose short reviews appear below. The books sponsored by Shroff Publishers & Distributors Pvt Ltd (www.shroffpublishers.com ). Answers along with the winner info will be published in the next issue.

Info Contest - 1011
Answers & Winners

True, True, Micromax Modu T, Acer, FastTrack, Password crackers, 140, BliXOS, Lapcare, Adobe

Mr. M.S. Haresh of and Ms. Sukanya Sivanandan - both from Velammal Engineering College are the winners. They will receive a cheque for Rs. 500/- each sponsored by SRA Systems.

The winners of the Info Contest – 1012 will be presented with the following books sponsored by Shroff Publishers & Distributors Pvt Ltd.

**Basic Electrical Circuits**


Workshop on “Python Programming” at Rajalakshmi Engineering College

The one-day workshop conducted on 9th October, 2010 was jointly organized by Free-Open-Source-Software (FOSS) group and IEEE Student Branch of Rajalakshmi Engineering College.

The aim of the workshop was to promote the use and benefits of Open Source Software among the student community. Hence the registration fee was not collected from the participating students.

The workshop aimed at providing the participants an introduction to the Python, an open source, high-level powerful programming language. The salient features of the language such as data types, control structures, functions, object oriented approach, standard libraries, file handling and 2D plotting were covered in the workshop.

The workshop started with the welcome address by Dr. S. Renganarayanan, Principal, Rajalakshmi Engineering College. The overview of the workshop was given by Dr. Sheila Anand, Dean (Research) Computer Studies and IEEE Student Branch Counselor, Rajalakshmi Engineering College. The workshop comprised of lectures interleaved with hands-on training sessions.

Workshop on “Labview Programming” at Arunai

The IEEE Student Branch well thought out a two days knowledge practicum titled “An Introduction to Labview Programming” at Arunai Engineering College on 23rd and 24th September 2010. Prof. Kumaravel Staff Coordinator welcomed the gathering. Dr. Arumugam, Principal, Prof. Ravichandran, Project Director and Heads of various Departments graced the inaugural session by their presence and conferred an informative and inspirational converse on the basic ideas of Labview. The practicum spotlighted students from Dept. of Electronics and Communication Engineering, Mechanical Engineering, Electrical and Electronic Engineering and Instrumentation Engineering.

Mr. A. Sundaravelan Technical Assistant and Mr. R. Vengatesh from INNOVA Automation & Controls Private Limited were the guests at the sessions. He emphasized the basics of lab view and detailed guidance on lab view. He carried out the speculative sitting in an interactive manner by screening presentation on prologue and basic notion of lab view program. At the tea break, interesting word playoffs were conducted for the students and delegates for stimulant. After that the Laboratory Session was in progress. The participants were given training with the lab view toolkit.

The second day was continued with the laboratory session to enrich the knowledge of the students in diverse concept of lab view program. The workshop kindled the student’s zeal to explore more in the field. Prizes and certificates were distributed to the participants at the valedictory function.

Report by: M. Valarmathi, v.mathi56@yahoo.com & M. Amalasuganya, amala_achevier@gmail.com

Expert Lecture on “Smart Grid – Issues and Challenges” at Sri Krishna College of Engineering and Technology

IEEE student branch of Sri Krishna College of Engineering and Technology, Coimbatore organized an expert lecture on 30th September 2010 on “Smart Grid – Issues and Challenges” by Dr K K Sasi, Professor, Department of Electrical Engineering, Amrita Viswa Vidyapeetham University.

The session started with a welcome address by Ms. Thilagavathy, Treasurer, IEEE student branch. Dr S Subbiah, IEEE student branch mentor and senior member inaugurated the session. He pointed that this seminar is a proud highlight of SKCET IEEE student branch and stressed about the necessity and importance of smart grid in future. Mr Sathish Subramanian, vice-president, IEEE student branch introduced the guest to the gathering.

In the technical session, Dr K K Sasi started with a brief history of electrical transmission and dealt with an overview of critical Smart Grid components. The session turned out to be an interactive one with series of queries from the students.

Prof. Muthuraman Ramasamy, branch counselor, Mr N Krishna Prakash, Mr Nandalal, student branch faculty advisors and faculty members attended the event. There were 125 registrants including 35 IEEE member participants of different departments. Mr Dasarathy, joint-secretary, IEEE student branch proposed the vote of thanks.

Report by: N Krishna Prakash, krishnaprakash@ieee.org
Guest Lecture on “Next Generation Enterprise Systems and RFID” at Kalasalingam University

The IEEE Student branch of Kalasalingam University, Krishnankoil organized a guest lecture on “Next Generation Enterprise Systems and RFID” on 30th October 2010. The lecture was delivered by Mr. T.S. Rangarajan, Principal Consultant, TCS, Chennai and Vice Chairman, IEEE Madras Section.

Dr D. Devaraj, IEEE Student Branch Counselor, Kalasalingam University welcomed the gathering and Mr. S. Arunkumar, Student Chairman introduced the guest. Around 250 students from CSE, ECE, EEE and EIE departments attended the guest lecture.

During the presentation Mr. T. S. Rangarajan explained the present trend in Enterprise Systems and quoted some examples from Google Wave. He also mentioned about the ongoing process in TCS regarding the same. On RFID system he spoke about the importance of automating the process. He mentioned that RFID can replace the barcode being used in many applications. He enthralled the audience by playing a few videos on RFID based modern retail market.

Apart from that he mentioned about the RFID-based projects carried out at TCS in recent times. He advised the students to learn more about this technology of the future, and to undertake projects using this technology. At the end of the lecture, the students have attracted with the resource person. Afterwards the Branch Counselor Dr. D. Devaraj presented a memento to the guest. At the end Ms. Anju Yoga, Secretary, proposed the vote of thanks.

Report by: Dr. D. Devaraj, Branch Counselor

Workshop on “FPGA based system design using EDA tools” at Thiagarajar College of Engineering

The IEEE student branch of Thiagarajar College of Engineering, Madurai conducted a two days workshop during 22-23, Nov 2010 on “FPGA based system design using EDA tools”. The workshop instructors were experts from ENIX Technology India Pvt Ltd and the sessions were organized by Mrs. K. Kalyani, IEEE Branch Councellor.

The first day’s session was handed by Mr. Bhuvenesh Muthu from ENIX Technology. The session was about the introduction to Altera Devices /ASIC & FPGA and simulation & synthesis, implementation & optimization using Quartus II software.

The next day session was about designing with the Nios II Processor and SOPC Builder, verification tools in Quartus II software, and demonstration of development boards and debugging tools.

The sessions were attended by 35 student members and faculty from ECE department of Thiagarajar College of engineering. The workshop was very interactive, with active participation from the students. It gave the students right perspective about the industrial needs of FPGA systems. Further Mr. Bhuvenesh created awareness among students, about the existence of various FPGA based system design industries in India, and stressed that students must utilize the opportunity to further their expertise in the domain.

Report by: K. Kalyani, Branch counselor

Officer Installation Ceremony at Sri Muthukumaran Institute of Technology

The Ceremony for installation of the newly elected officers for IEEE Student branch was organized in SMIT college campus on 14th Oct 2010.

The Program was initiated by our Past-Student Chairman Mr. Karthik Malmarugan. He presented the Annual Report of the branch and shared his experience in organizing various events. The branch officer election was conducted through simple ballot system. The newly elected officers were announced by Mrs. G. Janaki, branch counselor. Head of the Department Mr. A. Murugesan congratulated the newly elected officers. He heartily appreciated and encouraged the team to carry out various activities in the upcoming days.

The Following Student Members are elected as officers of the IEEE SB at SMIT

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<th>S.No</th>
<th>Position</th>
<th>Name</th>
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<tr>
<td>1</td>
<td>Student Chairman</td>
<td>Mr. M. M. Hari Krishnan, III year, EEE</td>
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<tr>
<td>2</td>
<td>Vice Chairman</td>
<td>Mr. Vigneshwaran, II year, EEE</td>
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<tr>
<td>3</td>
<td>Secretary</td>
<td>Mr. S. Bala Ragavendra, III year, EEE</td>
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<td>4</td>
<td>Treasurer</td>
<td>Mr. M. Satish Kumar, III year, EEE</td>
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<th>Officers- Women in Engineering Affinity Group</th>
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<tr>
<td>1. Student Chairman</td>
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<td>2. Secretary</td>
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Technical Symposium at Hindustan Institute of Technology and Science

The IEEE student branch of Hindustan Institute of Technology and Science in association with Hindustan Electrical and Electronics Scholar Association (HEESA) organized a National level technical symposium Omega 2010 on 1st of October 2010.

The Day began with a prayer song and the Dean (Academics) Dr. Devanathan welcomed the gathering and congratulated the Electrical and Electronics department for organizing this national level technical symposium. Mrs. A.K. Parvathy, HOD spoke about the department progress.

Mr. Moorthy Cheethanathan Vice President of Hexaware Technologies was the Chief Guest and the Guest of Honour was Mr. Sivaraman of Delphi-TVS, Oragadam works. Both the Chief Guest and Guest of honour delivered motivating addresses. Then, the department magazine Spark’10 was released by the Dean and the same was received by the guests.

The event had nearly 10 events which include: Paper Presentation, Project Presentation, Circuit Debugging, Technical Quiz, Dumb C, Treasure Hunt, Gaming etc.

Most of the participants registered online for paper and project presentation. Out of 200 plus technical papers received, 15 were selected through review process by our faculty. The topics of these papers were of recent trends in Power System, Robotics, Nanotechnology, Biomedical Instrumentation, VLSI and Embedded System etc.

The function came to a formal closure with Mr. E. Terence, Asst. Professor thanking everyone who made the event a grand success.

Report By E. Terence, Students Counselor

ICCCCT’10: IEEE International Conference on Communication, Control and Computing Technologies


At the inaugural, Dr. R. Dhanasekaran, Principal, SAEC, welcomed the gathering. Dr. Babu Abdullah, Correspondent, SAEC & Rev. Fr. A. Jesumarian, Correspondent, St. Xavier Catholic College of Engineering jointly presided over the Inaugural function. Prof. Selvakumar Manickam, Domain Head, NAV6, Universiti Sains Malaysia (USM) Inaugurated the Conference and delivered Inaugural Address. Dr. Chinnadurai Abdullah, Secretary, SAEC delivered a Special Address.

Dr. Ayham A. Yahaya, HOD, Engineering, Al Musanah College of Technology, Sultanate of Oman, Dr. S. N. Sivanandam, Advisor, Akshaya College of Engineering & Technology, Coimbatore, Prof. Ramalatha Marimuthu, R10 WIE Coordinator, Chair, Women In Engineering Madras IEEE WIE Affinity Group, Chennai fertilicated the function. Dr. S. Joseph Sekhar, Principal, St. Xavier Catholic College of Engineering, Kanyakumari deliveredvote of thanks.

ICCCCT’10 received around 550 technical papers from research scholars, faculties & industrialists from India & Abroad. A panel of 60 professors from reputed engineering colleges reviewed the papers and 180 papers were selected for ICCCCT’10. 152 papers got registered and presented during the conf. held at SACE and St. Xavier’s Catholic College of Engineering.

St. Xavier’s Catholic College of Engineering, hosted eight sessions — namely Wired and wireless communication I and II, VLSI design and testing, HVDC and FACTS, Routing optimization security technique and security, Power system, Electric drives and controls, Intelligent controllers and SCADA, during the conference on 8th & 9th Oct 2010. A special session was arranged by the IEEE Women In Engineering for women participants in which about 10 papers were presented. Dr. Andrew Meulenberg, Researcher, NAV6 of Universiti Sains Malaysia gave the pre-conference session on 7th Oct.

Prof. Selvakumar Manickam, Dr. R. S. Moni, Dr. S. Tamil Selvi, Dr. S. S. Vinsley, Dr. Latha, Dr. S. Solai Manohar, Dr. A. Shajin Nargunam, Dr. S. Ramesh Dhaneselan, Dr. S. Joseph Jawahar, Dr. M. P. Selvan, Dr. M. Caroline Mabel, Dr. Helen Sulochana were the Chairs and Co-chairs of various sessions.

Dr. Andrew Meulenberg, Ayham A. Yahaya, HOD, Engineering, Al Musanah College of Technology, Sultanate of Oman & Prof. Selvakumar Manickam, Domain Head, NAV6, USM delivered the keynote address in both the Colleges.

The conference presentation sessions at SAEC were held on 7th and 8th and at St. Xavier’s on 8th and 9th. The sessions of SAEC were viewed by St. Xavier’s and vice versa using Video conferencing.

Valedictory Function of ICCCCT’10 was held at St. Xavier Catholic College of Engineering. Rev. Fr. A. Jesumarian, Correspondent, welcomed the gathering. Most. Rev. Dr. Peter Remigius, Chairman & Bishop of RC Diocese Kottar delivered presidential Address. Dr. S. Joseph Sekhar, Principal, presented the Conference Report. Dr. Mylswamy Annadurai, Project Director, Chandrayaan-1&2 delivered the valuable Chief Guest Address. Dr. Chinnadurai Abdullah, Secretary, SAEC delivered a special address.

Dr. Andrew Meulenberg, Ayham A. Yahaya, Prof. Selvakumar Manickam, Rev. Dr. A. S. Michael Raj, Prof. Ramalatha Marimuthu, fertilicated the conference. Dr. R. Dhanasekaran, Principal, SAEC, proposed the Vote of Thanks.

We thank the Universiti Sains, Malaysia, IEEE and IEEE-WIE for their technical support and sponsors. We also thank Prof. Ramalatha Marimuthu, IEEE WIE Region-10 Chair and Dr. Srinivasan, of Nokia Siemens Networks. Also we would like to express our sincere gratitude to all the reviewers, chairs and co-chairs for their support.
Books

In this column we will be publishing short reviews of books which will be of use to our student, academic and professional members. Some publishers have come forward to offer the books reviewed as prizes to the winners of the quiz included in the CSI eNewsletter which is being circulated to all our IEE members including students.

Distributed Computing: This book, starts with an overview of basic concepts of distributed systems and then deals with the description of networks, inter process and remote communication, synchronization of distributed systems, real-time distributed systems, distributed databases and also covers the security issues. Each of the 13 chapters at the end provides a summary, review questions and multiple choice questions to help the reader to revise the concepts. This book will be useful for the students of CSE, IT & MCA students and working professionals. Authors: Sunita Mahajan & Seema Shah. Published by: Oxford University Press. Pages: 598+xxviii. Price: Rs. 325/- More about the book at http://bit.ly/1Eg2aw

Software Testing: Principles and Practices: This book, presents the subject in 18 chapters grouped under 7 parts such as Testing Methodology, Testing Techniques, Managing the Testing Process, Quality Management, Test Automation, Testing for Specialised Environment and Tracking the Bug. It also presents a case study and useful appendices that provide ready to use checklists. The accompanying CD contains the executable files of the sample programs, checklists and the case study. At the end of each chapter, summary, review questions and multiple choice questions are provided to revise the concepts. This book will be useful for the students of CSE, IT & MCA students. Author: Naresh Chauhan. Published by: Oxford University Press. Pages: 612+xxi plus a CD. Price: Rs. 365/- More about the book at http://bit.ly/hS5rNf

(Wireless Communication: Beginning with an overview of wireless systems, fundamental concepts of wireless communication, DSP, digital communication, and information theory, this book provides an extensive coverage of wireless channel and modulation schemes with multiple access scenario and advanced wireless systems. Each of the 16 chapters at the end, provide a summary, review questions and multiple choice questions to help the reader to revise the concepts. This book will be useful for the students of ECE, CSE students and practicing engineers in the filed. Author: Upena Dalal. Published by Oxford University Press. Pages: 772+xxvi. Price: Rs. 395/- More about the book at http://bit.ly/cBt6Ox

Data Warehousing: Designed for the use by the UG students of Computer Science and PG students of Computer Application, this book, in three parts and 14 chapters presents various features and architecture of a data warehouse, its business requirements and dimensional modeling, components of a data warehouse building, marinating a data warehouse and the trends in data warehousing. End chapter recapitulations, objective and review questions are useful. Author: Reema Thareja. Published by Oxford University Press. Pages: 474++. Price: Rs. 285/- More about the book at http://bit.ly/9o7kpT

“Role of Professional Societies in Extended Education” – Interaction with Faculty at Sri Krishna College of Engineering and Technology

On 29th Oct 2010, at Sri Krishna College of Engineering and Technology, an interaction meeting with the faculty members of the Computer Science & Engineering, Information Technology and Master of Computer Applications was held with Mr. H.R. Mohan, Chairman, IEEE Computer Society, Madras Chapter.

Dr. S. Subramanian, Principal, SKCET welcomed the faculty and introduced Mr. Mohan, Chairman, IEEE CS and also associated with other professional societies such as CSI, ACM etc.,

Mr. Mohan, during the interaction said that while 50% of the learning by the students is from the class room teaching, the rest comes from the real world practical applications being practiced by the industry and professionals. He added that professional societies provide opportunities to network with the industry professionals and practitioners.

Mr. Mohan, highlighted that the membership in professional societies like IEEE, IEEE Computer Society, Computer Society of India and Association of Computing Machinery is valuable in multiple ways. These societies publish a no. of journals and transactions highlighting the research findings and trends in technology. IEEE CS and ACM provide access to their e-Learning Campus with facilities for online reading of no. of professional books, self development courses. Some of the certification programmes offered by IEEE CS are very helpful in career advancements. Also, the conferences organized by them are offered at a discounted rate to the members. He suggested by visiting the websites http://www.computer.org/portal/web/membership/benefit-home and http://www.acm.org/membership/benefits one will know more about the benefits.

The student membership in these societies is quite affordable, at USD 40/- per year (for IEEE & IEEE CS with digital library access) and USD 19/- (for ACM) and Rs. 300/- (for CSI) considering the benefits it offers. He urged the faculty members to encourage the students to become the members of these societies and also requested the management of the institution to support the faculty in becoming the professional members of these societies and enhance their knowledge in the fast changing field of CSE.
Interaction Meeting with IEEE CS Chairman at Amrita Vishwa Vidyapeetham University

The IEEE Student branch of Amrita Vishwa Vidyapeetham University, Coimbatore organized an interaction meeting with Shri H.R. Mohan, Chairman, IEEE Computer Society, Madras Chapter on 29 October, 2010.

About 60 IEEE student members and office bearers attended the meeting. Mr. Arun Kumar, IEEE Student branch Counselor welcomed the gathering. Prof. K. Gangadharan, Chairman-IT, AMRITA delivered the presidential address. Mr. Prashant R.Nair, Vice-Chairman - IT, AMRITA introduced the guest to the august gathering.

In his free-wheeling interaction, Shri Mohan motivated the students to do projects in cutting-edge technologies. He gave an overview of various activities of the IEEE Computer Society Madras section and how student branches could apply for research and event grants and benefit. He also highlighted how the membership in professional associations benefits in building up the career.

Call for Papers & Participation

- NCCSE-2011: 2nd National Conference on Computational Science and Engineering. 4-5, Feb 2011 at Kochi. Email: mca.rajagiri@gmail.com / jayamahesh99@yahoo.co.in Last date: 30th Dec 2010. www.rajagiri.edu

Visit our Website
www.ewh.ieee.org/r10/madras

Posted On : 24th December 2010
Posted at: Egmore RMS (Patrika)