

Chairman's Message

T.S. Rangarajan

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My dear members

In the month gone by, I had the opportunity to address a few conferences conducted by colleges. IEEE Madras Section has been supporting conferences through technical and financial sponsorships every year. Financial sponsorship of conferences organized by student branches is now the biggest budgetary item of

IEEE Madras Section. Globally IEEE's revenues from conferences accounts for 35.2% and expenses towards conferences is 31.2%.

IEEE Madras Section over the years has been systematically addressing the needs of various segments of its membership. We began by focusing on students first – supporting student branch activities and student projects. We then moved on to teachers by organizing Faculty Development Programs regularly. While we want to continue and enhance these activities for students and teachers, I feel it is time for us to focus on researchers. Most of the engineering colleges currently affiliated to universities are very keen to seed and incubate research in their institutions.

Earlier the goal of researchers used to be 'publish or perish', which has now moved on to 'patent or perish'. We want to see this further to 'produce or perish' meaning encourage conversion of research outputs to products or services useful to society. This chain of activity from research to product / service development through patenting and IPR protection will require handholding and setting up of common platforms for enabling the transition.

Compared to its western counterparts the Indian education system continues to operate in a silo with little or no interaction with industry in its educational and research activities. For institutions to emerge as fountainheads of societal development it is essential to discard the silo type operation and embrace an open, collaborative and multidisciplinary approach to education. It should be possible for people to seamlessly move from institution to industry and vice versa thereby enriching both.

As a professional association with members from both institutions and industry, I believe IEEE offers a unique platform to help its members bridge this divide for the benefit of society, their institutions, their industry, their students and themselves. Recently IEEE Madras Section in consultation with Region 10 has identified an Industry Relations Chair to focus on this aspect.

I welcome suggestions and feedback from both institutions and industry on how IEEE Madras Section could address the institution – industry linkages with particular reference to helping researchers create, develop and produce solutions, products and services for the benefit of our society.

Till next time
Yours Voluntarily
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From The Editor's Desk

H.R. Mohan

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Dear Friends,

Our chairman, in his message has highlighted the need to extend support for research related activities, as the Section has progressively met the needs of the student centric activities and Faculty Development Programmes, over that last few years.

This year, Section also desires to focus its activities on "Industry Relations". Let us welcome Mr. Rajavel, Executive Vice President of L&T (ECC) and Chairman, IEEE IAS Chapter and Past Vice-Chair of IEEE Madras Section who will spearhead this initiative from our Section.

We would like to emphasize our desire to promote online publishing using our CMS based website. This month, we had received activity reports from our student branches which would require not less than 24 pages as against our standard page limit of 12. We were forced to carry forward items to the next issue apart from editing the content mercilessly. We suggest the chairs & counselors of SBs to consider posting the event reports at the Section website. From next month onwards, the print newsletter will have the reports published in the form of listing of activities to conserve space. As stated in our earlier issue, we wish to focus on publishing information "for use" rather than information "for record purposes". Please feel free to voice your views on this by email to the Section office at ieemas@airtelmail.in / ieemas@gmail.com with a copy to ieemaslink@gmail.com

In this issue, we have published the reports on events organized by the following institutions: St. Xavier's Catholic College of Engg; Amrita School of Engg; Asan Memorial College of Engg & Tech; Aarupadai Veedu Inst. of Tech; Jeppiaar Engg College; Coimbatore Inst. of Engg & Tech; Francis Xavier College of Engg; Kalasalingam University; Magna College of Engg; Jansons Inst. of Tech; Easwari Engg College; M. Kumarasamy College of Engg; EGS Pillay Engg College; Park College of Engg & Tech; Knowledge Inst. of Tech; Kumaraguru College of Tech; Sri Muthukumaran Inst. of Tech; Kalaignar Karunanidhi Inst. of Tech; Kongu Engg College; Sudharsan Engg College; Sri Shakthi Inst. of Engg & Tech; Jayaram College of Engg & Tech.

The other items published the LINK include: Report on the EMC Society Distinguished Lecture and the IEEE COMSOC lecture series meeting.

We strongly recommend the student members to take advantage of the offer from IEEE Computer Society to become the member along with the access to Digital Library, by paying just USD 6.50 (about Rs. 325/=) for the eight month period – May to Dec 2012. It is an excellent offer. Also, please suggest your friends to take up the joint membership in IEEE & IEEE CS by paying just USD 20 (about Rs. 1000/=) for the remaining eight months of 2012.

We draw the attention of our readers to the forthcoming Professional Development Training Course on "Software Engineering Essentials" being organized by IEEE CS. A great learning opportunity for the aspiring young professionals and researchers interested in SW Engg career. Pl. refer: <http://www.csi-chennai.org/see/> for details.

Chennai-Bangalore EMC Chapter

Distinguished Lecture



The NEW IEEE EMC Bangalore-Chennai Chapter, SAMEER-CEM, and the Society of EMC Engineers (India) Chennai Chapter, held a joint meeting on the topic "Understanding EMC Design and Test Challenges Posed by Radiation and Emerging Automotive EMC Test Requirements."

The meeting was held on 7th March 2012 at the SAMEER-CEM auditorium in Chennai. A warm welcome was extended to the some 50 attendees by the IEEE Madras Section Chair, T. S. Rangarajan and Dr. Subbarao of SAMEER, the IEEE EMC Society Membership Coordinator for India.

Omar Ramahi, IEEE Fellow and EMC Society Distinguished Lecturer, Omar Ramahi of the University of Waterloo, Canada, presented "What Causes Radiation?" Dr. Ramahi explained how the field of EMI/EMC shares its heritage with antenna and propagation engineers, on the one hand, and physicists on

the other. For the former group, much of the 20th century was spent on developing ways to predict the radiation due to some source through complex analytical and numerical schemes. Physicists, on the other hand, are interested in making the connection between the movement of the elementary charged particle, the electron, and the radiated field. Since the field of EMI/EMC engineering is related to a large degree to radiation, EMI/EMC engineers would naturally be interested in the work of these two groups. However, EMI/EMC engineers have been interested in understanding which sources/currents are the ones that cause radiation; a question that is typically ignored by the two groups of physicists and propagation engineers. After all, if the source of radiation is found, containing it becomes easier than not knowing it in the first place. Dr. Ramahi answered in a most lucid way the fundamental question of "what causes radiation" from a purely practical and engineering relevant perspective. He showed that powerful numerical schemes, circuit models, and analytical techniques, while potentially providing elegant and a full solution to the radiating problem, fail to highlight the physical phenomenon of interest to EMI/EMC engineers in the first place unless careful attention is paid to... the fundamental sources of radiation!

After short refreshment break, Mr. Martin Wiles, RF and Microwave Solutions Consultant with ETS-Lindgren, United

Kingdom presented "An Overview of Automotive EMC Anechoic Chambers." This was an invited presentation that tied into the Auto Testing Expo held the week of March 5 in Chennai. Mr. Wiles explained that the requirements for testing to Automotive EMC standards in anechoic chambers are varied. They also differ from other EMC standards in that they have two categories of test at either the component or vehicle level. The CISPR, SAE, ISO and EC standards are the most commonly used. Since Automotive EMC vehicle test chambers can be some of the largest EMC test facilities in existence, it is important to have a good understanding of the requirements of the current standards before embarking on such a project. Mr. Wiles explained how the emerging requirements for Electric and Hybrid vehicles are now adding further dimensions to this testing.

Following the interesting presentations, attendees enjoyed interacting with the speakers and seminar organizers. An excellent lunch hosted by Agilent Technologies and ETS-Lindgren Engineering India Pvt. Ltd. concluded the seminar.

The Chapter looks forward to holding additional successful events in the future. For more information on the Chennai-Bangalore Chapter, please contact: Mr. Parvez Javeed, IEEE EMC Society Membership Coordinator, India, parvez.javeed@ets-lindgren.com

St. Xaviers Catholic College of Engineering

Technical Gathering

A Technical Gathering was conducted on 16th Feb 2012. The meeting was organized by the SB counsellor Mr. C. John Moses and conducted by the chairman Mr. C. Jinesh. WIE Chair Miss. V. Tresa Mary George along with 49 members attended the meeting. The Programme Committee Convener Mr. Arun. S. Felix briefed about "The Alyehum 2012" and advised the 3rd year students to choose their project topics and encouraged them to participate in the Alyehum 2012. In the following WIE Chair talked about the articles to be submitted for the magazine. Then Ms. Anila Cater of III ECE gave a technical presentation on the topic Nano Technology in Food and Agriculture. She was honoured with a memento by our counsellor. Finally the meeting ended with the distribution of newsletter of IEEE student branch (IEEE SXCCE LINK) to all the IEEE members present there.

Report by: G.V.Jaffya

SB Election 2012

The SB Election for 2012 was conducted on 23rd Feb 2012. The meeting was organized by the SB counsellor Mr. C. John Moses and the SB coordinator, Mr. A. Darwin Jose Raju. The SB Counselor made the announcement regarding the election of office bearers for the executive committee of the SB for the year 2012-2013. Following this, a technical presentation was given by Ms. Elma of III ECE on Nano Technology in Solar Energy. She was honoured with a memento by our SB coordinator. 33 members attended the meeting.

Report by: C.Jinesh

TECHENGIMA'12

The SB organized various technical competitions under the banner TECH ENGIMA'12 on 25th Feb 2012. Over 100 students actively participated in various events such as Circuit debugging, C debugging, Aptitude contest, Vocabulary contest, Best Managerial

Event, Spot event, Quiz competitions, Logo contest and exhibited their talents.

Report by: I.S. Sri Vidhya

Technical Gathering

A technical gathering was held on 8th Mar 2012. About 58 members attended this meeting. Discussions were about Sangamam project. Then Mr. Felix informed about the deadline for submitting the nomination form for executive members and deadline for submitting the hardcopies for the paper contest. SB member Ms. S. Rheema Rahael of third CSE gave a technical presentation on "Driverless Car". She was honored with a memento by our SB counselor Mr. John Moses.

Report by: S. Divya

FDP on "A Complementary Essentials of MATLAB & LABVIEW - Theory and Practice" on 9th - 10th May 2012 at V.M.K.V. Engineering College, SALEM. For details, pl. contact ieemaslink@airtelmail.in

Amrita School of Engineering

Seminar on IEEE 802 standards



A seminar on IEEE 802 standards was organized on 28th Feb 2012. In his talk, Prof. K. Gangadhran, Chairman, Dept. of IT, Amrita School of Engineering, Coimbatore and Chairman, IETE Coimbatore Centre discussed about the IEEE 802 standards, the frequencies in which they operate and the specific applications for each of the standards. He also gave some interesting facts and figures about the futuristic mobile phones and their applications.

Seminar on Higher Education Opportunities in US and Visa Procedure



A talk by Ms Jennifer McIntyre, US Consul General, US Embassy, Chennai on

Reports by: C. Arunkumar,
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Asan Memorial College of Engineering and Technology

Workshop On Informational Security And Ethical Hacking

IEEE SB of Asan Memorial College of Engineering and Technology in collaboration with Cyber Octet and IEEE GINI Madras Section and Jeppiaar Engineering College conducted a two day workshop on 'Informational Security and Ethical Hacking' on 6th and 7th Jan 2012. The workshop commenced with the welcome address delivered by the SB counsellor, Mrs. B Shanthi. Dr. E Chandrasekaran, Principal AMCET addressed the gathering and the felicitated the speakers Mr. Falgun Rathod and Mr. Dev Rathod. The scope of the workshop was to acquaint the participants with cyber ethics, cyber security and ethical hacking. The workshop was conducted in two parts, on the first day participants were given an in depth theoretical knowledge about cyber ethics, cyber laws, information gathering and scanning, bots and honey pots, Google hacking, virus worms, Trojan, Network hacking and social engineering. The second day had a live demonstration of latest hacking techniques and tools, followed by live investigation demonstration of various cases solved by Mr. Falgun Rathod, as case studies. The impact of the cyber security and hacking was cornered through an interactive

session on GSM and 3G security, cyber forensics, cyber-crime investigation. Cloud computing and vulnerabilities in web application generated keen interest among the participants. The workshop witnessed the participation of 86 students from various colleges of Tamil Nadu. The two day workshop was appreciated by the participants and has generated lot of enthusiasm and food for thought for the young hackers.

IEEE SB Officers Training Workshop



The IEEE GINI Madras Section on 7th Jan 2012 added another feather to its cap not only leaving footprints for the current office bearers and volunteers of ASAN Memorial College of Engineering and Technology IEEE Student Branch but also making the faculties aware of the outreach of IEEE. The audience were the 2nd and 3rd year students, faculties of various departments Head of ECE Department

"Higher Education Opportunities in the USA" was organized on 1st Mar 2012 in association with the Centre for Corporate and International Relations of ASE. This was part of "Experience America" a unique program organized by the US Consulate in Chennai. Ms Jennifer McIntyre, was the chief guest and she delivered the opening remarks of the program. Her colleagues Ms. Brindha spoke on "Higher Education Opportunities in the U.S" and Mr. John Hall and Ms. Bridget spoke on "Students visas". This talk program was attended by the pre-final year students of the School of Engineering in addition to the IEEE Members.

Dr. Sivagami and Branch councillor Mrs. B. Shanthi. The speakers from IEEE GINI MAS Mr. Anand B, SB Networking Lead, Mr. Hari Krishnan M M, Industrial Collaboration Lead inspired the vibrant audience with their sessions on SB structure and its functioning, significance of reporting, fund-raising and networking etc and the role of GINI (Global Integrated Network of IEEE)

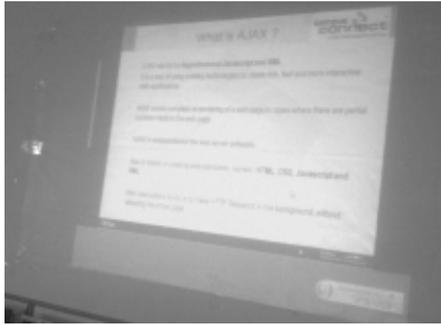
Report by: Abhishek Nair,
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Section Membership as on 15th April 2012

Life Fellow	-	2
Fellow	-	2
Life Senior	-	7
Senior Member	-	97
Life Member	-	4
Member	-	1121
Associate	-	51
Affiliate	-	20
Graduate Student Member	-	767
Student Member	-	4145
Total	-	6,216

Aarupadai Veedu Institute of Technology

Webinar on ASP, .NET and AJAX



IEEE CS Branch Chapter - AVIT and Association of Information Technology Engineers, Dept of IT, AVIT organized a one day webinar on ASP, .NET and AJAX on 19th Jan 2012 in which Mr. Santhosh Kumar, Principal, Education and Research, Infosys Technologies, Chennai briefed the importance of ASP, .NET, Introduction to AJAX CORE TENETS of ASP.NET AJAX, ASP.NET AJAX CONTROLS for the benefit of students.

NCISE-2012: National Conference on Information and Software Engineering

The IEEE Computer Society Madras Chapter, IEEE CS SB at AVIT, and Dept. of IT of Aarupadai Veedu Institute of Technology organized 4th National Conference on Information and Software Engineering. Mr. Rajaram Venkataraman, Principal Research Analyst, Infosys Labs, Chennai was the Chief Guest at the inaugural session. He delivered the inaugural address highlighting the importance of innovative ideas regarding Software



Engineering and also released the Souvenir. Following the inauguration, Mr. Chandrasekhar Madala, Center Head, Birlasoft (India) Limited, Chennai released the conf. proceedings and delivered the keynote address. Dr. N. R. Alamelu presided over the function. Dr. A. Anthony Irudhayaraj, Dean (IT) welcomed the gathering and briefed about the conference.

About 100 delegates including research scholars, faculty members and students from all over the country attended the conf. 40 technical papers were presented during the conf. The invited talk sessions covered presentations on wide range of topics relating to the theme of the conf. — Software and Information Engineering and included:

- “Cloud Computing, Mobile and Green Computing” by Mr. Murali, Technology Consultant, Applications & Technology

Services Group, Computer Science Corporation India Pvt. Ltd.

- “Software Reliability Engineering” by Dr. D. Damodaran, Additional Director & Scientist ‘E’, Centre for Reliability, Ministry of Communication & IT, Government of India.
- “Agile Application Development” by Mrs. P.Geetha, Process Consultant, Ford Technology Services, Chennai.
- “Software Requirement Engineering” by Mr. M. Arunachalam, Advisor, HCL Technologies, Chennai.

Mrs. P.Geetha, Process Consultant, Ford Technology Services, addressed the delegates during the valedictory function and distributed the certificates. Prof. C. Karthikeyan HOD/IT delivered the vote of thanks.

Jeppiaar Engineering College

Inauguration of Special Interest Group on Humanitarian Technology

Technology (SIGHT) was inaugurated at Jeppiaar Engineering College IEEE Student



With a view to Build on the IEEE theme of Advancing Technology for Humanity, the Special Interest Group on Humanitarian

Branch on Feb 8th 2012. The SIGHT group will serve the purpose of identification, categorization and inventory of all IEEE

Humanitarian Activities. Mr S Sellakumar, SB Counsellor inaugurated the SIG by handing over the brochure to Mr. Manoj Reddy, Student Chairman of the SB. The team planned to commence with projects to benefit a small area in the beginning and later move on with advanced ideas.

Report By: Nivas Ravichandran,
nivasravichandran@ieee.org

Technical Awareness Program

On 15th Feb 2012, the SB member stepped into the 4th consecutive year of creating technical awareness among the children of less aware of technological developments. The Technical Awareness Programme (TAP) - 4 was conducted in the Government Higher Secondary School, Selaiyur. The SB counsellor, Mr. S. Sellakumar encouraged the students in organising the whole event. Under “We Can Bring The Change” campaign, the children were exposed



to a broad spectrum of inventions. The session was arranged in two class rooms with students from 9th and 11th grades. The presentations covered mechanisms like artificial heart, weighing machine, barcode scanner, rocket launching and vast areas. The videos aided them to reach the students' mind and clear them conceptually. A questionnaire followed every presentation where in the students were rewarded for the best answers. We express our sincere thanks to Mr. Anand B, (student Chair, 2011 and SB Networking Lead, GINI MAS) who supported the team throughout the event.

*Report by: Salma Saitoon,
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Vocabulary Test - 2012

On 17th Feb 2012, the WIE Affinity Group conducted the Vocabulary Test for its student members. About 75 students from various departments participated in the contest. It consisted of a written test comprising the verbal testing skills essential for any average test taker. The duration of the test was an hour. The instruction for each round was given by Ms Madhuri K.P., WIE Student Chairman. The students were very ebullient in participating. The discussion and self-evaluation was practised at the end of the test. The students

found it very beneficial and edifying. The second part of the event had an interactive session taken by Mrs. Kavitha, English lecturer. She made students aware about the importance of communication. She also told how to develop effective communication, improve ones' own vocabulary. The audience provided a very positive feedback, thus encouraging the organisers to organise more such sessions. We would like to express our gratitude to our SB counsellor, Mr. S. Sellakumar for his support and also the volunteers who have contributed towards the success of the event.

*Report by: Harini Vasu,
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IEEE Membership Drive 2012

A membership drive for the first year



*Report by: Nivas Ravichandran,
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Coimbatore Institute of Engineering and Technology

Awareness programme on IEEE



An awareness programme on IEEE for the 2nd & 3rd year B.E/B.Tech students was

organized on 3rd Mar 2012. About 400 students from B.E – CSE, ECE, EEE, Mechanical and

students was organized on 28th Feb 2012. It was attended by around 500 students. Mr. Manoj Reddy, SB chairman delivered the welcome address. Ms. Pragnya Srinivasan and Ms. Divya Sindhura, spoke on the overview of IEEE as a professional organization, its standards, societies and affinity groups. Certain fun oriented technical videos and IEEE tagline videos were also screened. Mr. Diljeet Zachariah and Mr. Cyril Sebastian highlighted the 'Benefits of IEEE Membership' ranging from SB Level to the Global level. Mr. Arun Noel Victor SB Secretary presented the Annual Report of SB Activities conducted during the year 2010-2011. The session was then taken over by Ms. Snehaline Vijji, SB Membership and Maintenance Committee Chair 2011 and Mr. Anand Balu, SB Networking Lead, IEEE GINI Madras Section who shared their personal experiences with the students. There was a feedback session to analyze how well the drive inspired the young lot. Mr. Sharon Roy, SB Treasurer, briefed the students regarding the Membership dues, the criteria and the resources available for them. The program finally came to an end with the Vote of Thanks delivered by Mr. Sase Kumar, SB Vice Chair.

B.Tech – IT participated in the programme. The objective of conducting this programme was to increase more number of membership and make the students to update their knowledge both technically and professionally. Prof. B. Saravanan, SB counselor explained about need for IEEE, membership, its details, dues, enrolment and renewal process, various societies and communities etc., IEEE student coordinators then explained about the various activities such as workshops, seminars, and conferences been conducted under IEEE for the last four years. They had also explained about the WIE AG details to all the girl students.

Report by: B. Saravanan

Francis Xavier Engineering College

Inauguration SB & WIE



The academic activities of the IEEE SB and WIE were inaugurated by Dr. B. Priestly Shan, Execom Member, IEEE EDS Society, on 14th Feb 2012. Dr. B. Priestly Shan highlighted the benefits of being an IEEE member and delivered a motivating speech on how the young engineers can achieve their dream job. Mr. R. Thambi Durai, GM, SCAD Group of Institutions, briefly spoke on the change in the present industrial scenario, of how more women are entering the field of Engineering and their valuable contributions. Dr. K. Rajagopal, Principal inspired the student on the need for a quality research. Mr. R. Parthiban, the outgoing Chairperson of SB, presented the achievements of the previous year and also thanked all IEEE members as the SB received the certificate of appreciation along with a cash prize of Rs.2000, from the IEEE Madras section. Ms. Shally Kennedy, Chairperson, SB presented the activity plan of 2012. SB counselor Mrs. M. Selvi, HOD/ECE introduced the OBs of SB and the Faculty Advisor Mrs. M. Caroline Viola Stella Mary, HOD/IT introduced the OBs of WIE.

Guest Lecture on “Principles of Management”

A Guest Lecture on “Principles of Management” by Mr. Eugin Franco, Professor and Head of the Department of Management Studies, St. Xaviers College of Arts and Science, Palayamkottai was organized on 22nd Feb 2012. The speaker provided an overall view about planning, executing, handling and managing various tasks to achieve a successful outcome.

Report by: R. Arun Prasanth

Seminar on “Engineering in Health Care”

A one day seminar on “Engineering in Health Care” was held on 27th Feb 2012. It was conducted at Francis Xavier Engineering College by the EMBS Society along with FX IEEE SB.

and the future development of RFID. Following this, the Chairperson of EMBS, Dr. B. Santharaj introduced a new trend of “Nuclear Imaging” explaining how nuclear imaging is used in various fields.

In the afternoon session, Dr. C. R. Sasi, Past Chairman, IEEE Madras Section gave an inspiring speech about “Employability”. He gave the three key points about employability, which are, gaining initial employment, maintaining employment and obtaining new employment when required. Prof. P. Jayachandran, Dean, Vellalar College of Engineering & Technology, then presented a session on “Fuzzy logic & Its Applications In Medical Instrumentation”. Major V. V Chandrasekharan,



In the morning session, Mr. Rangarajan, Chairman, IEEE Madras Section presented on “The new companion for infrastructure development in RFID-Health Care” explaining how RFID technology is used in Health Care

Secretary, IEEE Madras, inspired the students with his energetic speech explaining about the member benefits of IEEE & its Societies.

Report by: C. Dhivya

IEEE Communications Society

Second Lecture Series

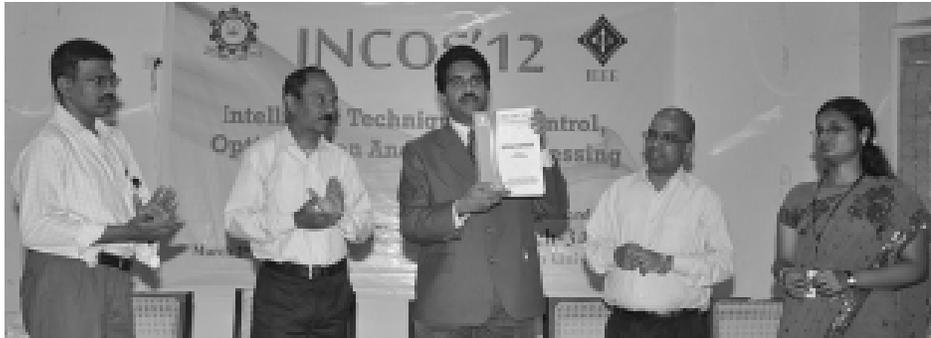


IEEE Communications Society organized its **Second Lecture Series** of the year on 3rd Mar 2012. The first lecture was on “Embedded Systems” by Dr. R. Jayaparvathi, Professor, ECE Department, SSN College of Engineering, Chennai. The lecture included a brief introduction to embedded systems followed by a detailed explanation on the various topics including real time systems, real time operating systems, different stages in the development of

embedded systems, requirements for embedded systems and applications of embedded systems. The lecture also dealt with various open source operating systems available for developing embedded systems. Dr. S. Hemamalini, Treasurer, IEEE Madras Section, presented a memento to the speaker. The second lecture was on the topic “Subvert the Paradigm - Career Path” by Mr. K. Keerthi Prasad, Head – Program Management Office, Business Transformation, CSC, India. The lecture dealt with the progress through different stages starting with Student, Graduate, Fresher, Employee and ending up as a Professional. The lecture was a lively one with motivating videos being played. The importance of choosing a career path was stressed upon. The lecture was followed by interactions between the speaker and the participants. Mr. P. Subramanian, Secretary, IEEE Communications Society, Madras Chapter presented a memento to the speaker.

Kalsalingam University

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



The third National conference on “Intelligent Techniques in Control, Optimization and Signal Processing” was organized on 2nd and 3rd Mar 2012. Dr. P. S. Kannan, former professor of Thiyagarajar College of Engineering, Madurai was the chief guest at the function. Dr. P. S. Kannan in his inaugural address explained the advancement in intelligent techniques and their role in design and development of industrial systems. He advised the participants and students to take up research in the area of “Robust control system design using intelligent techniques”. While the souvenir of the conference was released by Dr. N. Albert Singh, Divisional Engineer, BSNL, Nagercoil, the electronic version of the proceeding was released by Dr. P. S. Kannan.

In the two days conference 50 research papers were presented in six sessions by

research scholars, post graduate students and faculty members from various institutions in the areas of Image processing, Evolutionary algorithms, Power systems, Intelligent control and VLSI Design. Apart from paper

presentations the following invited lectures were also delivered in the conference :

- Multi-Objective Optimization by Dr. P. S. Kannan, Thiyarajar College of Engineering, Madurai.
- Soft Computing Paradigms Overview and its Applications in Engineering by Dr. N. Albert Singh, Divisional Engineer, BSNL, Nagercoil.
- Biometric Image Analysis and Recognition by Dr. J. Sheeba Rani, Asst Prof/Avionics, IIST, Trivandrum.
- Kernel Methods based Approaches to Speech and Image Processing Tasks by Dr. C. Chandra Sekhar, Professor, IIT, Chennai.
- DWT based satellite image resolution

enhancement by Dr. V. R. Vijay Kumar, Associate Professor, Anna University, Coimbatore.

- Cloud computing model for power system applications by Dr. P. Anbalagan, Assistant Professor, Anna University of Technology, Trichy.
- Computational Intelligence Inspired by Human Brain and its Faculties by Dr. G. Athithan Associate Director, Centre for AI and Robotics, DRDO, Bangalore.

At the valedictory function on 3rd March Ms. Lydia Kiruba, Kalasalingam University delivered the welcome address. Dr. D. Devaraj, SB counselor presented a detailed report about the activities of KLU IEEE Student Branch. The Chief Guest of the valedictory function was Dr. G. Athithan, Associate Director, Centre for AI and Robotics, DRDO. Dr. C. Chandra Sekhar, Professor, IIT, Chennai was the guest of honor and distributed the certificates. The best paper award was received by Mrs. C. Devi Arockia Vanitha, Assistant Professor/ Department of Computer Science, SFR. College for Women, Sivakasi. The participants provided a good feedback about the organization of the conference. The conference was organized to perfection under the guidance of Dr. D. Devaraj, SB counselor and the leadership of Ms. D. Preethi Viola Jenifer, SB chairperson. Ms. Tephilla Prince, Kalasalingam University proposed the vote of thanks. INCO'12 was sponsored by CSIR, New Delhi and IEEE Madras Section.

Report by: Dr.D.Devaraj,
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Magna College of Engineering

Inauguration of the Student Branch Activities



The SB activities were inaugurated on 6th Mar 2012. Mr. J. Devadas Nayagam, Chairman of the college in his presidential address insisted the students should gain knowledge beyond the books and to share it with the society. Mr. D. Jayahar, HOD/EEE welcomed the gathering and. Mrs. R. Mythily, Lecturer/IEEE coordinator presented about the activities being planned and emphasized the need to utilize all the benefits from IEEE. The college SB started

in 2006 with 25 students and 3 faculty members has been organizing activities like seminars, conferences and subscribing to the magazine packages etc. Further, it has grown to a strength of 136 students and 3 faculty members. Dr. T.

Ashok Kumar, Principal, introduced the chief guest Major V. V. Chandrasekharan, Secretary, IEEE Madras Section who in his inspiring address spoke about the role of professional societies and highlighted the major advantages of having a IEEE student branch. Mr. Vittal Raj, Chairman, SB, presented the vote of thanks.

Jansons Institute of Technology

Inauguration of IEEE Student Branch



The IEEE SB at Jansons Institute of Technology was inaugurated on 7th Jan 2012 by Dr. Ramalatha Marimuthu, Chair, Women in

Engineering, IEEE Madras Section. She gave a motivating presentation on various benefits of IEEE. Prof. Muthuraman Ramasamy, Dean, Corporate Relations presided over the function and delivered the Presidentia Address. Prof.G.Vairavel, HOD/ECE introduced the OBs and the student members of the IEEE. The future plans of the SB include: A National level technical symposium; An International level technical conference; and the inauguration of Amateur Radio Club to train the students and obtain International HAM license.

Easwari Engineering College

THE QUINTZ GQ

A General quiz as a part of the Quintessence'12, a symposium organized by the Dept. of ECE along with IEEE held on 8th Feb 2012. Out of 95 teams participated in the preliminary round, 5 were selected for the finals which had five rounds: "Mera Bharath Mahan" — questions on India's greatness and rich culture; "Oliyum Olhiyum" — an audio video round; "Gadget Guru" — questions based on science and technology; Mixed bag – on personality or a concept hidden behind the Hangman puzzle; and Rapid-fire round — a set of questions to be answered in 45 seconds. The team from TJ Inst. Of Tech was the winners and the runners up was the team from MIT. Mr. Giri Seshadri R and Srimadhavan V S were the Quiz Masters.

IEEE Orientation Programme

An awareness and orientation program on IEEE was organised and arranged for the benefit of the students of Easwari Engineering College on 16th Feb 2012. Mr. Hari Krishnan, Industrial Collaboration Lead, IEEE MAS GINI, listed the benefits of being a member of IEEE



and highlighted about the IEEE publications, online courses, IEEE Explore Digital Library, IEEE societies and affinity groups. Mr. Anand B, Student Branch Networking Lead, IEEE MAS GINI illustrated the opportunities and benefits of IEEE and explained on the special interest group on Humanitarian Technology. He also briefed the students about the IEEE STUDENT Awards, Grants and Scholarships. The session witnessed a participation of 250 students from various departments along with the SB Counsellor Mrs. Saraswathy Janaki and Mrs. Meenakshi Vidhya, IEEE Staff Co-ordinator.

Career Guidance Event

A career guidance programme for the benefit

of 2nd year engineering students was organized on 7th Mar 2012. IEEE volunteers of 3rd year briefed the participants about the GRE, GATE, CAT, GMAT, TOEFL, IAS, IES examinations through power point presentations that contained the latest and authenticated information on the eligibility criteria, examination pattern, syllabus, sample questions and question patterns, examination dates, reference books, study plan, good coaching centres, selection criteria, admission procedure, scholarships, expenses and future prospects. The participants found this programme useful and informative.

Report by: S.V. Charanya,
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M. Kumarasamy College of Engineering

Guest Lecture on Electric Traction



A guest lecture on "Electric Traction" was organised on 12th Feb 2012 by Mr. S. Balasubramaniam, Divisional Engineer, Southern Railways. About 60 final year students attended the lecture. The speaker said that the electric traction plays a vital role in today's world and added that Indian Railways has improvised its system over the period. In its modular form, it equals to advanced systems being in use in the developed nations. After

explaining about the different types of traction systems, he touched up on the emerging technologies and compared where we stand in implementation of these technologies. He also explained about the working process and procedures being followed in the system. He also briefed on the employment opportunities in the Indian Railways.

Report by: R. Kannan

Guest Lecture on "Employer Expectations and Higher Studies in Canada"



IEEE COMSOC SB organized an informative guest lecture on "Employer Expectations and Higher Studies in Canada" by Mr. Ramesh Ramachandran, Senior IT Consultant, CGI Information Management and Consulting Inc, Canada. In the 1st part of the lecture, the speaker explained about the employer expectations, working environment etc and highlighted on the opportunities and related for higher studies in Canada in the 2nd part. As students were looking opportunities for job or high studies, this lecture was timely and found to be very useful.

Report by: M.Saambavi,
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"Think Out of the Box"

An event "Think Out of the Box" was



organized on 8th Mar 2012. In the first session, Ms. P. L. Srinidhi of 3rd year IT made a presentation on “Do’s and Don’ts in a Presentation” covering the definition of presentation, types of presentation, the way of making a presentation and power of presentation in today’s scenario. As the second event, a quiz was conducted on the topic “Think Out Of The Box”. The participants were presented with certificates and prizes. In the

last session which was focused on the theme “Optimization of Power in Domestic Usage” in which how to utilize the power in an effective manner?, how to save the power?, new power productions techniques, the electronic bill payment systems, comparison of usage of power between various states etc., were discussed. IEEE coordinator, Prof. K. Sundararaju, HOD/ECE, Prof. V. Kavitha and HOD/ IT Prof. S. Thilagamani participated in the event. At the end, Chairman, SB Mr. R. Kannan proposed the vote of thanks.

Guest Lecture on “Life at Marine”

A guest lecture on “Life at Marine” by Mr. R. Soosai Raj, Chief Electrical Officer, Peter Dohle Shipping Company, Germany was organized on 19th Mar 2012. About 200 final



year students from Electrical & Mechanical streams attended and benefited from the lecture which highlighted the nature of work of a marine engineer in a shipping company, salaries and perquisites of different categories of engineers, the additional training needs. This lecture had motivated some of the students to take up the job in marine field.

E.G.S. Pillay Engineering College

Technical Symposium TORNADO 12



A national level Technical Symposium TORNADO 12 was organized by the IEEE SB and SPARKS, Assn. of ECE Dept. on Saturday

3rd Mar 2012. Mr. Durai Mukil, DGM-CM/BSNL, Kumbakonam inaugurated the symposium and released the Souvenir DVD. A wide range of technical papers were presented by the students from various engineering colleges. Prof. Hariharan, Anna University Campus, Thirukvalai and Prof. Mohan HOD/EEE of EGSPEC judged and selected the best papers. Other mind blowing events such as Circuit debugging, Quiz, Multimedia Contest, Aptitude Test and Treasure Hunt were also

conducted. To encourage physical activities and to show the talents in sports, events like Cricket, Volley Ball, Shuttle, Chess were also conducted among inter department teams during the period 13th to 17th Feb 2012. Prof. B. Saravanakumaran, Registrar EGSPEC had presided over the valedictory function and distributed the prizes and certificates to the winners. The event concluded with the vote of thanks by Prof. R. S. Koteeshwari, Convener of TORNADO 12.

Report by: Prof. G. Giftson Samuel

Park College of Engineering & Technology

WIE inauguration

The WIE Affinity group was inaugurated on 2nd Mar 2012 with the active coordination by Mr. P. Chandrasekar (Asst.Prof/EEE) and Ms. G. Vetrivelvi (Asst.Prof/ECE). Dr. G. Mohan Kumar, Principal, in his presidential address spoke about the empowerment of women in the technical field. Dr. Ramalatha Marimuthu, Chairperson Global Committee, IEEE –WIE, the guest of honour, spoke about the group functioning based on the social activities to improve the society by the



engineering students, quoting few remarkable incidences like “providing electricity to a tribal village with the help of college students, adopting the entire village, providing training and business opportunities on self-employment

on various fields, students to help the special children and many other events. The chief guest Dr. R. Joseph Xavier, Principal, SRIT, in his address, explained the role of women in modern society and their importance in engineering field. The executive officer Mr. T. Nithyanandam spoke regarding the power of women. Dr. Suresh Gnanadhas Dean/ECE and Mrs.K. Muthulakshmi HOD/ ECE participated in the programme.

*Report by: V. Subash,
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Knowledge Institute of Technology

Literature Festival – Morning Song of INDIA

‘The Poetry Competition’ was held on 16th Feb 2012 for the first and second year students of various departments. There were 37 participants who actively participated and presented different visions over the title ‘The Morning Song of India’ in both Tamil and English. Mrs. C. Gomathi, AP, Dept. of ECE was the chief guest at the competition. The student in-charges — Mr. T. Praveenkumar, Mr. C. Ashokraj and Mr. S. Prabu enthusiastically coordinated and organized this event.

Historical photograph – Milestones to Freedom

An interdepartmental exhibition of historical photograph collections was held on 17th Feb 2012. About 20 participants who actively participated. The theme of the exhibition was “The Milestones to Freedom” and under the topic historical photographs were exhibited. This exhibition and topic kindled the youngsters who participated and provided an insight of struggles to freedom.

Reports by: Ms. K. Kavipriya , Ms. S.Jeevithapriya, T.Sandhiya, msece@kiot.ac.in

**Professional Development
Training Course**
on
“Software Engineering Essentials”

36 hours – spread over 6 days in
3 weekends in May & Jun 2012

Dates – 19, 20, 26, 27, May 2012 &
02, 03, Jun 2012

Organized by
IEEE CS, CSI & SSN SASE

Details at
<http://www.csi-chennai.org/see/>

Kumaraguru College of Technology

National Conference on Ad hoc Networks and Recent Communication Technologies



The conference on Ad Hoc Networks and Recent Communication Technologies held on 16th & 17th Feb 2012, provided a forum to bring together academic scientists, leading engineers, industry researchers and scholar students to exchange and share their experiences and research results about all aspects on the theme of the conf. Out of the 130 papers received in various areas like Ad hoc networks, wireless sensor networks, image processing, data mining, embedded system etc, 75 were shortlisted for presentation in six parallel sessions namely: Embedded Systems; Image Processing; Data Mining; Wireless Networks; Mobile Adhoc Networks; and Sensor Networks which were chaired by experts from industry & academia.

Skill development program on the topic "DATA COLLECTION"

IEEE COMSOC SB chapter conducted a skill development program on the topic "DATA COLLECTION" on 20th Feb 2012. After the welcome address by Mr. P.S. Prakash, Chairperson of IEEE COMSOC, Prof. K. Sundararaju, SB Counselor felicitated the gathering and briefed about the importance of gaining knowledge in current affairs in everyday life. Prof. V. Kavitha, SB Mentor briefed the participants about the numerous ways of gaining knowledge. Mr. T. Yuvaraja, Asst. HOD/ECE and Mr. V. Kalaiselvan Lecturer, MBA Dept. demonstrated on gaining knowledge on current affairs in an interactive and informative session. Nearly 8 teams comprising of two participants each presented their collections on current affairs like Kudankulam needed or not, Mullai Periyar is needed or not, USA is not maintaining peace etc... The aim of this program was to collect some basic facts and information on the happening which would help during our placements. The event concluded with the vote of thanks by Ms. K. Jansi, Secretary of IEEE COMSOC.

Report by K. Jansi, jansieng@gmail.com

"TECHNOTRIX-12"- Project Contest

The "Technotrix-12" project contest was organized on 3rd Mar 2012. Engineering students belonging to the Dept. of Electrical Sciences participated in this contest and displayed their project work. 65 students in



17 batches participated in this contest and displayed their projects in the EEE Dept. labs. Senior staff members from EEE & ECE Depts. judged the projects and selected three best projects. The project on "Low power emergency light" won the first place. Projects displayed were of very creative and several projects provided solutions to the problem that we are facing in our day to day life. Mr. G. N. Muruganandham, HoD/EEE in-charge presented a report of projects and distributed the prizes and certificates.

Sri Muthukumaran Institute of Technology

Energy Conservation Day



The WIE affinity Group observed the Energy Conservation Day on Jan 2, 2012. After the introductory talk by Mr. Shanthan Krishnan, HOD/EEE, in a briefing by the principal, Dr. Shankaranarayanan about energy audits, effective utilization, collective planning, informed initiatives with dwindling energy resources at the fore, scaling from the micro to the macro levels were put forth. The talk by the chief guest Dr. P. Balakrishnan, General Manager, TNEB did include the alarming figures of energy consumption, power required to run packs of industrial pockets, the power diverted to substations in Tamil Nadu from the grid pool of Central

Authority. Employment opportunities, career planning at TNEB were explained. Undertaking projects as hobbies and its potential pros and cons were added. To generate employment rather than being employed was highlighted by the speaker.

The Executive Engineer from TNEB, in his presentation, explained right from Power plants, generating mechanisms, layouts to transmission and distribution to the load centers, household appliances, its ill-use and its usage on efficient terms to ensure a certain degree of fairness, trademarks, small prints, 5 star ratings, the Green Energy Professional Certifications.

WIE Debate



A debate session for WIE members was organised on 18th of Feb, 2012. Prominent IEEE GOLD Members were invited to grace over the occasion. Mr. Balakrishnan, an employee at Infosys and Mr. Salankayana, from IEEE GINI Madras Section addressed the gathering and boosted the girls to pursue Engineering for life! The guests addressed the present scenario of women who quit their Engineering professions. After the talk, a debate on the topic "Are women really facing problems in reaching their goals or Is it just a melodrama for not achieving?" was held. Girl students took sides in raising their points. The guests kept the debate lively by provoking the speakers with more and more questions. A brief program was held immediately after that where many queries regarding the WIE membership and benefits were discussed.

Report by: Pooja Vijayaray

Kalaingar Karunanidhi Institute of Technology

Workshop on “Power Quality Issues and Solution in a Harmonic Environment”



A two days National level workshop

on “Power Quality Issues And Solution In A Harmonic Environment” on 2nd and 3rd Mar 2012. Dr. B. Hariram, Technical Lead, R&D, ABB, Bengaluru was the chief guest at the workshop. At the inaugural session, Dr. P. Anbalagan, Director/HOD/EEE welcomed the gathering and Dr. R. K. Suresh, Principal, presided. Prof. S. Suresh, SB counselor delivered the vote of thanks. Dr. B. Hariram, in his address, spoke about power quality issues in research industry. He provided few solutions for power quality improvement and

highlighted on the latest technology in power equipment. He also highlighted the solutions for reliable power performance and spoke on the projects that are involved in power quality improvement which will avoid the problems in the forthcoming years. Dr. S. Suresh Kumar (Director, Dr. NGPIT), Dr.E.Chandrasekaran (Associate Prof., CIT, Coimbatore), Dr. S. Saravanan (CDAC, Trivandrum), Dr. E. Selvaraj from TEDA delivered special lectures in the workshop. Around 200 students and 30 faculty members from neighboring institutions in and around Coimbatore participated in the workshop and benefited.

Kongu Engineering College

Student Teacher Awareness (STAR) program



The WIE/IEEE SB conducted the 3rd Student Teacher Awareness (STAR) program on 3rd Mar 2012. The STAR program was conducted by bringing 50 students of standard 10th from Government High School, Edaiyankattu Valasu, Erode to the college (KEC) and providing them awareness about various engineering fields and their applications in day to day life. The program started with an introductory speech by the SB coordinator, Prof. K. Narayanan. Followed by his speech activities such as Newspaper reading to improve their communication skill, Technical quiz as a feast of their knowledge were conducted. A lecture on the various educational streams was given Ms.V.R. Saraswathy, staff coordinator of the SB. he students were made aware about their future and the courses of study that they could choose after their school education. Video presentations were made to kindle their interest in engineering and the benefits of being

an engineer. In the afternoon session the students were taken around the campus to visit various departments and were briefly explanation about the department and the engineering applications. The students were also taken to visit the Kongu Community Service Radio Station (90.4). At the end, prizes and certificates were given to the winners of various events conducted. After the feedback session, they were taken back to the school. The students left the college enriched with knowledge in the engineering fields.

Report by: S. Harini

VALEDICTORY

The Valedictory event for the activities of IEEE and WIE SB was conducted on 19th

Mar 2012. After the welcome address by Mr. S. Venkatesh, Vice Chairman, IEEE SB, Prof. K. Narayanan, SB Coordinator, in his presidential address, appreciated the students for their enthusiasm in the active conduct of various functions throughout the year. The Annual Reports of IEEE SB & IEEE WIE for the year 2011-2012 were presented by Mr. S. P. Shanmuganathan Chairman IEEE SB and Ms. S. Harini, Chairperson respectively. After the office bearers for the year 2012-2013 were introduced by Ms. V.R. Saraswathy, Staff Coordinator of the SB, Ms. Gayathiri Rajasekar, Vice Chairperson, WIE SB presented the vote of thanks.

*Report By: S. HARINI,
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Sudharsan Engineering College

Workshop on Energy Conservation / Efficiency Sensitization.

In this workshop on Energy Conservation / Efficiency Sensitization, held on 28th February, 2012, more than 60 students participated. Mr. S. Kannan, Certified Energy Auditor-Bureau of Energy Efficiency and Director of AMSET Energy Systems and Solutions Pvt, Ltd, Trichy and Mr. T. Sundharapandian, Electrical Engineer, NIT



Warangal were the resource persons at the workshop and explained the participants the

various ways to conserve the energy. Dr. S. Palani, Dean, PG Studies inaugurated the workshop and gave presidential address. Dr. M. Radhakrishnan, Principal and Mr. A. Ravi Asst. Prof., /HOD / EEE and IEEE SB counselor participated and spoke.

Report by: P. Mahidhar

LINK congratulates and welcomes
Dr. P. Suresh Chander Pal,
our Past Chairman in his new role as
Ombudsman of our Madras Section.

Sri Shakthi Institute of Engineering and Technology

Inauguration of the SB activities



The inauguration of the IEEE SB activities was held on 24th Mar, 2012. The Chief Guest of the day was the Chairman of the IEEE Madras Section, and the Principal Consultant of Tata Consultancy Services, Chennai, Shri. T. S. Rangarajan. After the welcome address by the principal Dr. R. Manian, the annual report for 2011 was presented by the HOD/EEE Shri. S. Palanikumar. Shri.R.Ashok, Asst. Prof. (S) / IT presented the annual plan of the SB for 2012 and introduced the execom members. Dr. S. Thangavelu, Chairman of the institution in his presidential address insisted the need for students to be members of such a highly

esteemed association like IEEE, and presented his views and ideas about the future endeavors of the institution in association with IEEE. The chief guest, Shri. T. S. Rangarajan, motivated the students and staff with his amazing thoughts and he made a fine speech on how the IEEE has helped many people, all over the world, from times when the term "Internet" wasn't even framed. The Counselor of the Student branch, Mrs. K. Indira Devi, thanked the Chief Guest, dignitaries and all the staff and students for giving such a good beginning.

Report by: K. Indira Devi

Jayaram College of Engineering & Technology

Workshop on Android & its application



A one day workshop on "Android & its application" was organized on 9th Mar 2012 with an aim of providing an overview of the mobile OS Android. The SB mentor Dr. N. Kannan presided over the function. SB counselor Dr. S. A. Sahaaya Arul Mary felicitated the resource person Mr. V. Kathirirajan. During the workshop, Mr. Kathirirajan explained about the Android, its real time applications and usage. The session was interactive and informative to all the participants. The participants were exposed to the basic concept, current and future trends of Android. The workshop ended with vote of thanks by V. Shivaraj, IEEE Member.

Editorial Team

Mr. H.R. Mohan, Mr. T.S. Rangarajan,
Dr. T. Thyagarajan, Dr. P. Suresh Chander Pal,
Major. V.V. Chandrasekaran, Dr. Krishna V. Prasad

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Posted On : 24th April 2012

Posted at: Egmore RMS (Patrika)

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