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Message from Chairman



Dr. N. R. ALAMELU

Esteemed Members,

On behalf of the executive committee, I bring greetings to all the members. My best wishes to the student members who are stepping in to the new academic year 2014-2015. This semester being the season of campus recruitment for the final year students, I would like to put forth some of my thoughts as motivational tips to the students, who will be facing the interviews.

- Focus on conceptual understanding, application and the presentation of your ideas
- Be confident about what you know and be sure about what you present
- Interact with your peers for sharing of the knowledge and better understanding
- Be focused on goals – what you want to be so that you are able to realize and achieve them.

I wish the academia for an eventful year ahead with lots of success and laurels.

I once again would like to recall to all the members about the that IEEE Madras Section hosting the R10 International Conference on Humanitarian Technology during the 6th August to 9th August 2014 at Hotel Hiton, Chennai and look forward for your participation.

WISHING YOU ALL THE VERY BEST

Your Affectionate Office Bearer

Message from the Editor



Dr. S.ARUMUGAM

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. I am happy to release the second issue of the MAS-LINK. The results of the Student project funding for the year 2013-14 is reported. A sum of rupees 47000 is funded for six projects. I request the project coordinators to send a report to MAS link for publication after the completion of the project. IEEE student councilors must encourage the students to apply for student project funding.

The report reported by various branches of IEEE received up to 30.05.2014 were included in this issue. I request the members to send the report in word format for editing the report.

Most of the student members will be busy with their examinations and summer internship training. The students members undergoing internship training can report their experiences for publication in this news letter.

The Colleges are now preparing for reopening of the Institution after summer vacation. Students are free enjoy the summer vacation in a useful way. I wish the members to enjoy their vacation and start new session with full zeal and enthusiasm.

I request the members to send some useful information for publication in the news link.

Dr.S.ARUMUGAM

SPF REPORT (2013-14)

IEEE Madras Section, happy to announce the results of the Student Project Funding for the year 2013-14. A panel of judges were constituted and evaluated the student's project demo on 19th April 2014 at IEEE Madras Section. Six projects were selected and recommended for the funding as given in the table. These six projects, students will be issued with the project completion certificate. Congratulations to the students who have actively participated in this event by spending their knowledge, valuable time and effort.

Sl. No.	Project Title	Student Name	College Name	Funded Amount
1	Full Home Automation Using Arduino and Ethernet	Mr.S.G. Niranjana Ramanan Mr.S.Manish	Panimalar Institute of Technology, Chennai.	Rs.15000/-
2	Thought Recognition Using Brain wave for Victim	Ms. K. Dharini Ms. H. Monica Bharathi	Knowledge Institute of Technology, Salem.	Rs.2000/-
3	Design and modelling of "Voice Controlled Wheel Chair for Disabled Persons"	Ms.V. Chalapandian Mr.T. Inbaezhilan Mr..S. Ramaseenivasan Mr.L. Sathishraj	Saveetha School of Engineering, Chennai.	Rs.10000/-
4	Design and modelling of 17 level cascade H- bridge Inverter in Distributed Renewable energy System	Mr.G. Sarathkumar Mr.R.Rajkumar Mr.S. Britto Mr.K. Ramanathan	Saveetha School of Engineering, Chennai.	Rs.2000/-
5	V- Doctor	Mr.M.S. Balaji Mr.Zahir Hussain	Sri Muthukumaran Institute of Technology, Chennai.	Rs.3000/-
6	Solar Powered tiller Robot with Micro Irrigation System	Mr.M.Suraj Jain Mr.K.S.Prithiviraj	Sri Muthukumaran Institute of Technology, Chennai.	Rs.15000/-

Reported by: Dr. P A Manoharan, Student Project Funding (Chair)

MUTHAYAMMAL ENGINEERING COLLEGE, RASIPURAM- 637 408.

MEX IN 14 (In House Project Contest) (14.03.2014)

79 students (IInd yr 50 Students, IIIrd yr 29 students) had presented their project. Dr.S.Nirmala, Vice Principal & Head of the Department of Electronics and Communication Engineering witnessed the projects. Prof. V.Mathiazhagan, Prof. A.Andamuthu, Prof. N.K.Shankar and Prof. V.Priya evaluated the projects. The competition was coordinated by Prof. N.K.Shankar and Prof. V.Priya. The Prize winners for the competition were S.Tamilselvan, B. Senthilkumaran, S. Shyed Musthaba and K.Silambarasan of 2nd yr has won 1st prize for a project “Mobile Detector With Mini UPS” P. Yekneshwaran, M. Vishnu Annamalai, M.Sethupathi and V. Sasikumar of 2nd yr has won 2nd prize for a project “Automatic Breaking And Speed Control”. S.Sakthipriya, P.Renugadevi and M.Pavithra of 2nd yr has won 3rd prize for a project “Power Line Fault Detection” S.Murugan, S.Praveen kumar and T.S.Thoufiq Ali of 3rd yr has won 1st prize for a project “Low Cost fire Alarm” B.Arun kumar, R.Hari prasath and G.K.Aswin Govind of 3rd yr has won 2nd prize for a project “Electronic Polling System” H.Kalaivani, A. Gomathi and A.John mercy of 3rd yr has won 3rd prize for a project “Grid Frequency Based Generator Load Management System Using Microcontroller”

Certification Course on DSP Theory using MATLAB/TMS320C6000 Processor (17th to 21st January 2014)

Dr.S.Nirmala, Vice Principle & Head/ECE inaugurated the program. Mr.Bhooshan.N.Iyer, Program Manager DSP Group, and Mr.Gajendra Kanjekar, Software Engineer-DSP division, from CRANES Software International Limited Bangalore were the keynote speakers and trainers. The technical sessions included Introduction to MATLAB, manipulating matrices, MATLAB Programming, Introduction to DSP, Transforms and Processors, introduction to Software development tools, TMS320C6000 architecture and pipelining, TMS320C6000 Assembly Programming, Digital filter Designs and hands on sessions on MATLAB and processors. Hands on training on MATLAB and TMS320C6000 Processor kit were given. 57 student members participated in the courses. Prof.C.Selvi of Electronics & Communication Engineering coordinated the event.

Report by: A.Amarnath prabhakaran-Assistant Professor/ECE, amar.ece.erode@gmail.com

EASWARI ENGINEERING COLLEGE

5th National Conference on VLSI, Embedded, Communication and Networks (VECaN-14) (17.04.2014)



90 papers were received from various colleges and 56 papers were selected for publication and presentation. Dr.N.Govindaraj , Senior Principal Scientist, CEERI, Chennai inaugurated the conference. Dr.S.Sudha, HoD/ ECE & Convener of VECaN'14 delivered the welcome address. Mr.Sridharan, AP/ECE introduced the Chief Guest. Chief Guest, in his address explained about the technological developments in CEERI and insisted on exclusive research centres in Colleges. He wanted the PG scholars to actively involve in research. Mrs.P.MeenakshiVidya, AP SI Gr/ECE, proposed the vote of thanks. The papers were published in the VECaN-2014 PROCEEDINGS with ISBN number 978-81-927672-1-5. 56 papers will be published in IJACT (International Journal on Advances in Computer Technology).

Reported by: Dr. S. Saraswathi Janaki,SBC, Mrs. P. Meenakshi Vidya, AP SI Gr/ ECE and Janani Prakash, *IEEE Student Volunteer*.

IEEE CIS Madras Chapter and VALLIAMMAI ENGINEERING COLLEGE

4th National Conference on Emerging Technologies in Electrical and Electronics Engineering (NCEEE'14)

The primary objective of the conference is in bringing together academicians and practitioners in Electrical and other associated fields on a common platform to share their knowledge and expertise so as to contribute towards research and development in the field. Out of 50 papers were received 40 papers were selected for presentation. The Welcome Address was delivered by Prof. K. Elango, HoD, Department of Electrical and Electronics Engineering.



Dr. M. Murugan, Vice Principal Valliammai Engineering college felicitated the gathering. The conference was inaugurated by Dr. N. Kumarappan Chair, IEEE Computational Intelligence Society, Madras Section. In his address he highlighted that such conferences would ignite a spark in the minds of budding engineers and they would be triggered to explore more in the areas of their interest and also highlighted the new trends of power engineering. Mr. G. Madhusudhanan, convener of NCEEE'14 proposed vote of thanks.

Dr. K. Vijaya Kumar, Professor and Head, Department of EEE, SRM University and Mr. Rathnam, Assistant Professor, Department of EEE, SRM University served as judges. Dr. K. Vijaya Kumar, was the chief guest for the valedictory function. Best papers presented were awarded with special certificates. Dr. G. Udhaya Kumar, Co-Convener, NCEEE'14 presented the vote of thanks.

Reported by: Dr N Kumarappan, Chair, IEE CIS Madras Chapter

SRM UNIVERSITY

Guest Lecture by Mr. Quentin Robin ,Siepel (07.04.2014)

Mr. Quentin Robin, Siepel (Manufacturers of Microwave Absorbers, Shielded Rooms and RF & EMC laboratories; siepel.com) delivered a lecture on RF Absorbers, Anechoic Chamber and Reverberation Chambers as well as RF properties and EMC standards and measurements. He also insisted that there is a huge demand for Electromagnetics and RF engineers. Followed by Mr. Rajappa, Indian Representative of Siepel India, discussed about the Turnkey Solution Provider and elaborated about the construction of Anechoic chamber, in various sectors like Automotive, Aerospace etc. which was quiet interesting.



Mr. Purusothaman, Scientist, ISRO briefed about the importance of anechoic chamber's in space communication.

Reported by: Dr. T. Rama Rao

COMPETENCY DEVELOPMENT PROGRAMME
IEEE YOUNG PROFESSIONALS (FORMERLY GOLD)
(24.05.2014)



Dr. S. Selvam, Professor Emeritus, IIT Delhi was the chief guest. The program was organized for the young teaching faculty and teaching aspirants from various places across Tamilnadu. Prof.S. Elangovan, Vice Chairman, IEEE young professionals, Madras Section, delivered welcome address. Dr.N.R. Alamelu, Chair, IEEE Madras Section, delivered the Keynote address. In her address, she mentioned about the essential behavior of the engineering teachers and also insisted about the importance of such competency development program for the engineering college teaching fraternity. Dr.S. Selvam explained about the two teaching

models out of 74 models existing. He shared his vast experience as Professor, Administrator, motivator at IIT and Anna University Chennai. He insisted that the faculty and teaching aspirants must perform self evaluation to become a good teacher. 24 participants attended the program. Prof. M. Venkateshkumar, Secretary, IEEE Young professionals, Madras Section, delivered the vote of thanks. Dr.A. Darwin Jose Raju, Chair, IEEE Young Professional Programme, Madras Section. Mr.H.R. Mohan, President, Computer Society of India, Dr. M. Ramalatha, Chair, IEEE Education Society, Madras Section, Mr.M. Barnabas, and Drupal Coordinator, IEEE Young Professional Programme, Madras section were present in the program.

Reported by: Prof.S.Elangovan,Vice Chair, IEEE Young Professional and Chair, Student Activities Committee.

Faculty Development Programme on “Soft Computing and Simulation for Power Engineering”



The IEEE Computational Intelligence Society – Madras Chapter in association with IEEE Madras section, IEEE Student Branch, S.A.Engineering College, Chennai organized a Faculty Development Programme (FDP) on 8th and 9th May 2014. The programme was attended by 31 faculty members of colleges and universities from all over Tamilnadu. The co-ordinators of the program were Dr.N.Kumarappan, Professor of Electrical Engineering, Annamalai University and

IEEE Madras Section Educational Activity Chair, Chair-IEEE CIS Madras Chapter; Dr.G.Umarani Srikanth, Professor and Head, Department of PG Studies, S.A.Engineering College, Chennai.Dr.T.Sasi Latha, Vice-Principal, S.A.Engineering College, Chennai presided over the function. Dr.N.Kumarappan, delivered the inaugural address. Dr.G.Umarani Srikanth, Professor and Head, Department of PG Studies, S.A.Engineering College, Chennai welcomed.

The Resource Persons for the program were Dr.N.Kumarappan, Mr.M.Venkateshkumar, Assistant Professor, Dept. of Electrical and Electronics Engineering, Saveetha University, Dr.A.Manju, Professor and Head, Department of Embedded System Technologies, S.K.P Engineering College, and Mr.R.Arulraj, Research Scholar, Department of Electrical Engineering, Annamalai University. The topics covered were Fuzzy Logic based Load Frequency Control, ANN based Power Dispatch, GA based Unit Commitment, Performance Analysis of Buck and Boost Converter using PSCAD, Load Flow Analysis using ETAP. Hands-On training was given on all the above mentioned topics.

Reported By Dr N Kumarappan,Chair, IEEE CIS Madras Chapter

.KNOW THE PERSON



Dr San Murugesan is Editor in Chief of IEEE *IT Professional* magazine; director and principal consultant of BRITE Professional Services, which focuses on consultancy, research, and training; and adjunct professor at the University of Western Sydney, Australia. He has decades of experience in industry and academia, and worked in USA, Australia, Malaysia and India

(ISRO Satellite Center in Bangalore) holding several senior positions. He is a former Senior Research Fellow of the US National Research Council at NASA Ames Research Center, California. His current areas of interest include cloud computing, mobile computing, green IT, Web 2.0, social computing and IT in emerging markets. He was instrumental in developing and promoting web engineering and green IT which quickly gained international recognition. He offers professional training, delivers short courses, consults on research and development, and serves on review panels and editorial boards.

He is co-editor of the popular books [Harnessing Green IT: Principles and Practices](#), Wiley 2012 (Wiley-India has published its [Indian edition](#)); [Web Engineering](#), Springer 2001; [Handbook of Research on Web 2.0, 3.0, and X.0: Technologies, Business, and Social Applications](#), IGI-Global 2009; and the forthcoming [Encyclopedia of Cloud Computing](#), Wiley 2014. He has authored or co-authored over 230 publications and guest-edited 20 journal special issues. He is an editor of IEEE CS flagship magazine [Computer](#) and edits its bimonthly column 'Cloud Cover.' He serves on several review and advisory committees. He is a fellow of the Australian Computer Society and the Institution of Electronics and Telecommunication Engineers (IETE), and a [Distinguished Visitor](#) of the IEEE Computer Society (2013-15). He holds Doctorate, Master in Technology and Bachelor of Engineering (Honours) degrees from leading higher education institutions in India. For further details, visit his [Web page](#) (<http://tinyurl.com/sanbio>).

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IEEE MAS LINK

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