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**Vol. 13 No. 2 Mar 2016**

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## Message from Chairman



Dear Members,

My greetings to all of you after taking up assignments into the New Year.

We have met the new committee members and have taken up new initiatives. Some of them are highlighted in the newsletter.

I had the occasion to attend the IEEE Region 10 meeting at Bangkok on the 5 and 6 of March. But before going to that, let me introduce to those who are not familiar with IEEE governance that IEEE has divided the world into 10 regions as follows :

Region 1 - Northeastern US; Region 2 - Eastern US; Region 3 – Southern US; Region 4 – Central US  
Region 5 – Southwestern US; Region 6 – Western US; Region 7 – Canada; Region 8 – Africa, Europe, Middle East  
Region 9 – Latin America; and Region 10 – Asia and Pacific.

We come under Region 10 and Mr. K. Ramakrishna from India happens to be the Director of Region 10 (R 10 for short). Region 10 is quite large, comprising of China, Korea, Japan, Australia, India and many smaller countries in the region.

At the R10 meeting, many aspects were discussed with regard to the governance of IEEE in general, which was led by the IEEE President and CEO, Dr. Barry L. Shoop. Mr. Ramakrishna presided over the full R10 meeting effectively. One important aspect which pertains to our section which was discussed was regarding student branches (SBs). While we have many SBs, significant no. of them are dormant or inactive. Eye brows were raised on this account as ours is one among the dormant top in R10. It is necessary for all of us to rise to the occasion to revive the dormant SBs. We may have to take the extreme step of closing them in case efforts to revive are not materializing. Before the axe comes down, I request those SBs which are dormant to proactively come up with activities and re-vitalise them. The trend of starting with the minimum members and minimum activities, just make it active is to be avoided. SBs should be vibrant and active throughout.

The competitions -- AYEHEM has the dead line as 15<sup>th</sup> April, for which I request SBs to participate in large numbers from our Section. Details are available in web site (<http://aiyehum.ieeer10.org/>). IEEE SIGHT has lots of funding options for good projects, which should be taken up on a large scale, seriously by our members. ([https://www.ieee.org/about/corporate/initiatives/sight\\_project\\_guidelines.pdf](https://www.ieee.org/about/corporate/initiatives/sight_project_guidelines.pdf)). I am sure our members will have excellent ideas to take up through SIGHT.

I would also call upon all eligible members to apply for Member and Geographic Activities (MGA) positions which are widely publicised through mails and web notifications. Our section has to have many representatives in these committees. More info can be got from [https://www.ieee.org/societies\\_communities/geo\\_activities/nominations\\_and\\_appointments/mga\\_positions.html](https://www.ieee.org/societies_communities/geo_activities/nominations_and_appointments/mga_positions.html).

Applying for various awards at R10 level also is to be initiated by all members who have been contributing to IEEE activities from Madras Section. <http://www.ieeer10.org/activities/awards.html> gives more details.

A major event of celebrating 50 years of R10 commences from Bangalore in August and ends in Sydney in one year's time. Many programs are planned by R10 and it is necessary that we should also plan programs befitting the occasion.

Till next time,  
Yours voluntarily  
**M A Atmanand**



**Prashant R Nair**

**Editor**

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## Message from the Editors



**H.R. Mohan**

**Chief Editor**

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Dear Members, While we are excited about the number of activities reported for publishing from various Student Branches (SBs), we are bit concerned about the style and substance in reporting. We prefer reports to include the highlights of the event or talk/presentation instead of just dropping too many names with fewer messages. Also, we note the guidelines to report are also not followed in many cases. We had to request the SB Counsellors / Chairs to re-submit the reports as per guidelines and in many cases to follow-up also in order to get them published in the newsletter. This takes some of our time and delays the compilation as a whole. We are trust and hope the guidelines available at <http://ieeecs-madras.managedbiz.com/link-web/report-to-maslink-submission-guidelines.pdf> will be followed without fail in the forthcoming reporting's. We would like to re-iterate that reports submitted by 8<sup>th</sup> of a month will get published in the same month newsletter and the late submissions will be taken up in the next month. Also, we request the reports to be sent as soon as possible immediately after the event rather waiting and send multiple reports together closer to the deadline. Pl. note that events reported after two months of the events may not be published as we desire the newsletter to be current and provide latest information.

We have included the reports on activities held at Ganadipathy Tulsi's Jain Engineering College, Vellore; Jeppiar Engineering College, Chennai; Jeppiaar Institute of Technology, Chennai; Kalasalingam University, Krishnakoil; Kings College of Engineering, Pudukottai; Knowledge Institute of Technology, Salem; Kongu Engineering College, Erode; KPR Institute of Engineering and Technology, Coimbatore; KSR College of Technology, Tiruchengode; Mepco Schlenk Engineering College, Sivakasi; M. Kumarasamy College of Engineering, Karur; Sri Muthukumaran Institute of Technology, Chennai; National Engineering College, Kovilpatti; Panimalar Institute of Technology, Chennai; PSNA College of Engineering and Technology, Dindigul; SA Engineering College, Chennai; Sri Sairam Engineering College, Chennai; Satyabhama University; Sona College of Technology, Salem; SRM University, Ramapuram Campus, Chennai; SSN College of Engineering, Chennai; St. Peter's College of Engineering and Technology, Chennai; and Velammal College of Engineering & Technology, Madurai.

The newsletter also carries brief reports on the activities of IEEE Computer Society; Entrepreneurship & Innovation Committee Activities; ADSF SIGHT along with a Section Technical Meeting. A detailed report on the R10 supported "Mini POCO" appears in the issue with select photos and the links to rest of the photos and the valuable presentations made by eminent speakers. Our thanks to Dr. R. Hariprakash, the convenor of Mini POCO conference for his meticulous planning and excellent execution followed by a comprehensive reporting of the event.

We had compiled and presented a number of announcements which would interest the members and SBs to gain maximum from IEEE and its offerings. Some of them include: Summary of Financial Assistance to SBs in 2016; Section Volunteers; IET India Scholarship Award; Current Digital Issues of IEEE Spectrum & IEEE Institute; Become a IEEE CS Member; The Richard E. Merwin Scholarship; IEEE Programming League – 2016; Engineering Projects in Community Service (EPICS) in IEEE – Call for Proposals; ACM – IEEE CS George Michael Memorial HPC Fellowship; All IEEE Young Engineers' Humanitarian Challenge (AIYEHUM) 2016; 2016 EAB Awards; The IEEE History Center e-newsletter; IEEE Chennai Hub Congress-2016 (CHC-2016); Joining IEEE & Starting a Student Branch; FAQ -- IEEE Young Professionals; Get involved in IEEE Future Directions initiatives; Proposed amendment to the IEEE Constitution on 2016 ballot; Free E-Book from IEEE-UAS; and IEEE Madras Section membership status as on 1st Mar 2016.

We are sure that readers will find the Information Resources column useful. We look for contributions from all to make the MAS LINK a sought after publication from the Section.

You can the archives of MAS LINK at <http://ieeecs-madras.managedbiz.com/link-web/index.html>

## Ganadipathy Tulsi's Jain Engineering College, Vellore

### Installation of Office Bearers



Installation of new office bearers of IEEE SB and IEEE Communication Society chapter was held on 12<sup>th</sup> February, 2016. SB chair Ms. M. Nivetha given the welcome address. Principal Dr. R. Varadharajan addressed the gathering. IEEE SB advisor, Ms. A. Manimegalai, HOD/ECE introduced the new office bearers for the academic year 2016-2017. The Principal honored the office bearers of the Academic year 2015-2016 and distributed the appreciation certificates to them. Mr. S. Sameer Ahmed listed the activities planned for academic year 2016-2017. Vote of thanks was proposed by Ms. K. T. Jeevitha, COMSOC chair.

### Intra College Puzzle Contest



IEEE COMSOC student chapter conducted an Intra College Puzzle Contest on 12<sup>th</sup> February, 2016 at GTEC.

Ms. M. Nivetha, IEEE SB chair welcomed the gathering. Special address was given by Dr. R. Varadharajan. 250 students participated in the contest. Winners were announced by IEEE SB Advisor, Ms. A. Manimegalai and they were awarded.

*Report by: Mr. C. Kumar, [mr.c.kumar@ieee.org](mailto:mr.c.kumar@ieee.org)*

## Jeppiaar Engineering College, Chennai

### Induction Program

The IEEE SB of Jeppiaar Engineering College conducted the "Induction Program" for the first year students on 16<sup>th</sup> Feb, 2016. The event was initiated with a video presentation about IEEE and JEC SB and followed by a talk by Mr. Sellakumar, SB counsellor in which he explained about the values of IEEE and the benefits of becoming members of IEEE. It was followed by a presentation and talk by Ms. Carelin Amelia, Chairperson of WIE detailing the history of JEC IEEE SB and WIE and the achievements made by JEC IEEEians. Mr. Solomon Sagar, Chairman of SB also addressed the gathering. The interactive event was attended by around 750 students of various circuit branches. The students were interactive and enthusiastic and showed interests in becoming members of IEEE.

*Report by: Mr. Akash Rajakumaran, [rajakumaranakash@gmail.com](mailto:rajakumaranakash@gmail.com)*

### Publicizing Events

We request the SBs organising events, particularly the events which are being funded by the Section, to publicize the events among our members using the mail blast services through the Section office. This will provide visibility to SBs and also facilitate other members to participate and get benefited in these events. This will be one of the criteria along with others in deciding on the funding to events and activities at SBs.

## Jeppiaar Institute of Technology, Chennai

### Technical paper presentation and Spectrum talk



The IEEE SB of JIT conducted a paper presentation competition and a Spectrum talk on 11<sup>th</sup> Feb, 2016. About 20 students participated.. Judges for the event were HODs of ECE, EEE and Mech Depts. Dr. S. Arul, Dr. C. Rajesh Kumar, Mrs. L. M. Merlin Livingston and Dr.Venkata Muni. First prize for paper presentation was won by Mr. D. Vijay Prasath – III B.E ECE and Mr. V. Saran – I B.Tech IT. First prize for Spectrum talk was won by Mr. Vijay Kumar – III B.E EEE and Mr. S. Susheel – III B.E. EEE. The event was organized by faculty members, Mr. S. Selvin Pradeep Kumar and Mrs. M. Benisha.

Report by: Mr. S. Selvin Pradeep Kumar and Mrs. M. Benisha, [ieeesbc@jeppiaarinstitute.org](mailto:ieeesbc@jeppiaarinstitute.org)

## Kalasalingam University, Krishnakoil

### IEEE CIS Student Chapter Inauguration



The formal inauguration of KU IEEE Computational Intelligence Society chapter took place on 25<sup>th</sup> Jan 2016. Dr. D. Devaraj, Dean (Academic) & IEEE SB counselor, in his welcome address briefed about the various activities conducted by the KLU IEEE SB in the past few years. Dr. S. Saravanasankar, Vice-chancellor, KLU presided over the function. Dr. N. Kumarappan, Secretary, IEEE Madras Section & Chair, CIS inaugurated the CIS SB chapter and explained the importance of becoming IEEE and CIS member. He

encouraged the students to participate in the events organized by IEEE globally. He also explained the details about the recognitions and awards given by IEEE to encourage the member's contribution to society.

### Technical Talk on on "IEEE eLearning Library"



IEEE Madras Section and CIS Madras Chapter has organized a technical talk on "IEEE eLearning Library" on 25<sup>th</sup> Jan 2016. Dr. D. Devaraj, IEEE SB counselor welcomed the gathering and gave an overview about the IEEE eLearning Library. Dr. N. Kumarappan, Professor/EEE, Annamalai University, Chidambaram, in his technical talk on "e-Learning Library Tools for Promoting Engineering Education Worldwide" advised the participants to use the facility offered by IEEE Continuing Education Providers and eLearning platform

to undergo online courses. He also suggested that students utilize IEEE Webinar Platform, IEEE Online Education Portal, IEEE iTunes University Beyond Campus and IEEE Online Education Best Practices. Around 130 students attended the programme.

Report by: Dr.N. Kumarappan, [kumarappann@gmail.com](mailto:kumarappann@gmail.com)

## Kings College of Engineering, Pudukottai

### International Conference on “Emerging Trends in Engineering, Technology and Science”



The International Conference on “Emerging Trends in Engineering, Technology and Science” -- ICETETS-2016 was organized from 24<sup>th</sup> to 26<sup>th</sup> Feb 2016 with the technical sponsorship of Computational Intelligence Society, Robotics & Automation Society, Cafet-Innova Technical Society, Hyderabad, Hannam University and Daejeon University, South Korea. In the inaugural address, Dr. Kim Kyung-tae, Professor Emeritus, Hannam University, South Korea enlightened the audience on the emerging trends in Communication Engineering. Shri T. R. B. Rajaa, Ex-Chairman of the College, presided over the inaugural function. Dr S. Durairaj, Principal welcomed the gathering. The soft copy of the conference proceedings was released by Dr. N. Kumarappan, Vice Chairman, IEEE Madras Section and was received by Shri. T. R. S. Muthukumaar, CEO, KCE. Shri. R. V. Balasubramaniam Vice President, Reliance Jio Infocomm, Mumbai, delivered the special address. On this occasion, a MoU was signed and exchanged between Reliance Industries Limited and Kings College of Engineering.

Invited talks were given by Dr. Kim Kyung-Tae on “How do we perceive the 3D objects and how to implement”, Dr. N. Kumarappan on “Smart grid – revolutionizing our energy future”, Dr. S. R. Pandian, on “Building a Smart Mosquito Trap – Intelligent Mechatronics for Mosquito Control Research” and Dr. S. Raghavan, Professor, National Institute of Technology, Tiruchirappalli on “Miracles of Microwaves”.

In his valedictory address, Dr. D. Viswanathan, Former Vice Chancellor, Anna University, Chennai stressed the importance of transforming research ideas into patents/products and emphasized the need for project based learning in Universities & Colleges. Dr. P. S. Kannan, Professor Emeritus, Thiagarajar College of Engineering, Madurai, distributed the participation certificates to the delegates. Dr. J. Arputha Vijaya Selvi, conference convener, proposed the vote of thanks. Over 180 delegates from all over India and abroad presented their research papers in this conference in eighteen tracks.

*Report by: Dr. J. Arputha Vijaya Selvi, [vijayas\\_02@yahoo.co.in](mailto:vijayas_02@yahoo.co.in)*

### IEEE Newsroom

The IEEE newsroom features the latest news from IEEE around the world. Find recent and past news related to IEEE hot topics, technical experts, products, awards, services, and events. More at <http://www.ieee.org/about/news/index.html>

## Knowledge Institute of Technology, Salem

### Logical reasoning aptitude test

The IEEE SB organized a logical reasoning aptitude test on 21<sup>st</sup> Jan 2016. The questions are were based on *Common Admission Test (CAT)*

### Digital India Group Discussion



The IEEE SB organized a Group Discussion on “Digital India” on 22<sup>nd</sup> Jan, 2016. Dr. N. Santhiyakumari, SB Counselor highlighted on the importance of communication skill in getting placed in MNCs. This GD event was coordinated by IEEE student volunteers Mr. Barath Vignesh, Mr. A.S. Hemnath Kowshick, Ms. S. Jaya Vidhyasri, Ms. V. Sowndharya, Ms. R. Gayathri, Ms. C. Sangeetha, Ms. R.K.Sumetha, Mr. R.Dinesh and Mr.A.Balachandran.

### Lectures: “Trends in Wireless Communication” and “Terrestrial & Space-based Wireless Communication”



The IEEE SB and INTEC association organized lectures on “Terrestrial & Space-based Wireless Communication” and “Trends in Wireless Communication” on 20<sup>th</sup> Feb, 2016. The lectures were delivered by Dr. T. Rama Rao, Vice-Chairman, Antenna Propagation Society, IEEE MAS and Professor & Head, Dept. of Telecommunication & Engineering, SRM University, Chennai. In his first lecture, he explained about basics of wireless communication and their future, network challenges, technology enhancement and satellite systems. He also presented about the issues that will occur in future recognition of wireless networks. In the second lecture, he outlined the importance of IEEE job site. Then he stressed the importance of using radio frequency in long range communication. He described 5G communication and its importance in IoT connected-devices and also the future of cellular networks, which are abbreviated as 3C (Communication, Catchers, Computing). Dr. N. Santhiyakumari, IEEE SBC; Dr. P.S.S.Srinivasan, Principal and Dr. K. Visagavel, Vice-Principal were present at both the lectures.

### IEEE Spectrum discussion

The IEEE SB organized a discussion session on IEEE Spectrum magazine analysis on 26<sup>th</sup> Feb 2016. Mr. M. Bharanidharan, AP/ECE and Mr R .Rasu, AP/ECE explained the importance of IEEE Spectrum. Students discussed on various topics such as “How to Kill a Supercomputer: Dirty Power, Cosmic Rays, and Bad Solder”. The SB members updated their knowledge on various fields and current trends.

## Fun Event

The IEEE SB organized a Fun Event on “Mono Acting” on 27th Feb 2016 in the presence of Dr.P.S.S. Srinivasan, Principal, Dr. K. Visagavel, Vice Principal, Dr .N. Santhiyakumari, IEEE SB counselor and Head/ECE

## Meeting on sub-conscious mind



The IEEE SB organized an IEEE student members meeting on 26<sup>th</sup> Feb 2016. The resource person was Mr. A. Parath Kumar of IV B.Tech ECE. He spoke on sub-conscious mind. He explained all the category of humans based on brain functioning system. He started a basic concept of Genius which includes Steel dynamo, blaze, and tempo classifications of a person. He also taught about the various the categories in which people will fall and through identified the peoples category.

His real time examples made the understanding of the concept simpler.

## Make a Product Expo



The IEEE SB organized a Make a Product Expo on 27<sup>th</sup> Feb 2016.

Dr. N.Santhiyakumari, IEEE SBC; Dr. P.S.S .Srinivasan, Principal and Dr. K. Visagavel, Vice-Principal felicitated.

Students displayed and explained their products individually according to their domain areas. The best performers in each domain were identified and awarded with certificates and prizes

Report by: Dr.N.Santhiyakumari, [hod.ece@kiot.ac.in](mailto:hod.ece@kiot.ac.in) and Hari Prasath R., [balajirhp@gmail.com](mailto:balajirhp@gmail.com)

## Kongu Engineering College, Erode

### Technical Seminar on 3D Printing

The IEEE SB organized a technical seminar “3D Printing” on 8<sup>th</sup> Feb 2016. The seminar was presented by V. Jayanth and R. Abinaya, two emerging students belonging to the Electronics and Communication Engineering. Students from various departments participated very enthusiastically.



The seminar focused on 3D Printing in which the participants were briefed on the overview and the techniques involved in 3D printing. The origin of 3D printing and the recent developments were explained to the participants. Two types of manufacturing namely, Additive Manufacturing and Subtractive Manufacturing were explained.

Recent machines developed to facilitate 3D printing were shown and explained through the presentation and videos. Selective Laser Sintering (SLS) is an additive manufacturing technique that uses a high power laser (ex: carbon dioxide laser) to fuse small particles of plastic, metal, ceramic or glass powders into a mass that has a desired 3-dimensional shape. Stereo lithography is another additive manufacturing process and uses a vat of liquid UV-curable photopolymer "resin" and a UV laser to build parts layer by layer. ABS plus, a production-grade thermoplastic that gives models the ability to perform just like production parts in real-world functional testing was also shown to the students.

The printing cycle that involves preparation, printing, de-powdering & recycling and chemical process were also explained. Finally various applications and recent developments of 3D printing were shown to the participants to provide knowledge about the fast moving world towards 3D printing as small toys to edible Pizza are being made through 3D printing.

As a continuation of the programme, a young Professional of the WIE of the IEEE SB presented a session covering Deep Sea Mining Robots, Honda's Advanced Robot called ASIMO. Another interesting topic that she has covered was "The Search of Extra Terrestrial Life". The sessions were interactive with a lot of questions raised by the participants were answered well by the presenters.

*Report by: R. Rakesh, [rakeshravikumarrajan@gmail.com](mailto:rakeshravikumarrajan@gmail.com).*

### **TAP -- Technology Awareness Program**



TAP, Technology Awareness Program was organized on 9<sup>th</sup> Feb 2016 by WIE, an affinity group of IEEE SB for the students of Erode Arima Sangam Trust School, Dindal. The programme started with an introduction about the evolution of new technologies. Following that a motivational video for developing the student's interpersonal skills was screened. Then a student member explained about the glass technology, its development and the future with an interesting video. As many of the students were physically challenged, they were encouraged by the inspiration of Stephen Hawking with a short clip. There was a briefing on the job opportunities for them with some examples. The students were encouraged to exhibit their creativity and bring out their hidden talents through energetic speeches and amazing poems. The students made the entire environment, an ocean of happiness by their active participation. The program ended with a photo session.

*Report by: P.Naveena, [naveena.kec@gmail.com](mailto:naveena.kec@gmail.com)*

### **Motivational Talk**

A motivational talk on "Building A Better Future" by Mr. M. Gnanajothi Professor of Management Studies at Kongu Engineering College was organized by the IEEE SB and WIE affinity group on 18<sup>th</sup> Feb 2016.



Mr. K. Ancelm Rajan, Additional Secretary, IEEE SB welcome the gathering and briefed about the objective of the talk. Mr. M. Gnanajothi, started his talk with an explanation and the actual meaning of success. He then explained about various opportunities and listed various jobs available in the government sector. He also provided key points to crack the exams like UPSC, IAS, IPS, Bank exams. He spoke about the Silicon Valley where our Indian engineers/programmers with natural talents working for others. He stressed that confidence makes one to achieve great heights in life and

added that confidence is an inestimable possession of all successful persons.

### Technical Seminar on “Prepaid Electricity System”



The IEEE SB conducted a technical seminar on “Prepaid Electricity System” on 16<sup>th</sup> Feb 2016 as an opportunity to students of IEEE & WIE to make use of the platform for sharing some of the technical knowledge. Mr. M. Santhosh, 3<sup>rd</sup> year ECE student and an emerging Electrical Engineer presented the talk on Prepaid Electricity, explaining the concept which follows the Smart Card structure which allows people to buy a specific amount of energy to use it when they need. This system is based on an IP-based controller called TINY and a WATTNODE type power meter which

interrupts the controller at a regular interval based on the consumption of electricity to update the balance following certain tariff table. This talk also covered the well-known client/server computing models, two and three tier architectures with examples. The future implementations, improvements, pros and cons were explained to the participants. The students interacted with the speaker and the session ended with a group photo.

Report by : S.M. Soundarrajan, [smsrajan94@gmail.com](mailto:smsrajan94@gmail.com)

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## KPR Institute of Engineering and Technology, Coimbatore

### Power Quality and Energy Auditing Workshop



The IEEE SB of KPRIET conducted a one-day national workshop on “Power Quality & Energy Auditing” on 12<sup>th</sup> Feb 2016. Dr.V.Kumar Chinnaiyan, HoD/EEE and SB welcomed the gathering and Dr. K. Bommanna Raja, Principal presided at the inaugural session. The resource person for the workshop was Dr. V. Saravanan, Associate

Professor, Dept. of EEE, Thiagarajar College of Engineering, Madurai. Nearly 55 participants from various colleges attended the workshop. Dr. V. Saravanan stressed on the need for energy conservation through energy auditing. He highlighted various power quality issues distressing the system and the energy conservation techniques for various motors in industries and transformers. He stated the revenue generated out of these conservation techniques and its future scope. In an interaction session, queries from the participants were answered with solutions and case studies from the industries. The workshop concluded with a feedback session and certificate distribution to the participants. The coordinators of the workshop were Ms. V. J. Vijayalakshmi, AP (Sr.G)/EEE, Mr. A. Mohamed Ibrahim, AP/EEE and Mr. S. Jose Infant Puvani, AP/EEE.

Report by: Dr.V.Kumar Chinnaiyan, [kumarchinn@hotmail.com](mailto:kumarchinn@hotmail.com)

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## KSR College of Technology, Tiruchengode

### Awareness Programme on "Daily Hygiene Practices"

IEEE-EMBS SB chapter in association with PMC (Press and Media Club) and PAC (Public Awareness Club) Club organized an Awareness Programme on "Daily Hygiene Practices and Hazardous Chemicals we face in day to day life" for the benefit of the rural people of Thevanankurichi, Tiruchengode on 24<sup>th</sup> Feb 2016. The people interacted with the student and faculty organizers to resolve their hygiene issues and they were taught with alternative methods to keep their home and environment clean and tide.

### Debate on "Technology implementation Vs Growing unemployment"



A debate programme was conducted on 1<sup>st</sup> Mar 2016 in which about 20 members participated. For the preliminary screening, debates were held on spot topics including social wellness, our own dream, comic in our surrounding world, leadership of our country, learning system and situation handling. 12 members were selected for the final debate on on "Technology implementation Vs Growing unemployment". While six members argued with the positive things about the technology implementation the rest six argued about the negative and the cause for unemployment. The best three selected were awarded.

### Research Forum on "An Overview on Clinical Syndromes and Pathogenesis of Leptospirosis"

IEEE-EMBS SB chapter organized a Research Forum on "An Overview on Clinical Syndromes and Pathogenesis of Leptospirosis" on 3<sup>rd</sup> Mar 2016. Mr. R. Subbaiya, AP presented the causes, diagnosis and prevention of leptospirosis. He also explained the detailed survey and research being carried out on this particular syndrome in the country. A total of 33 students including EMBS members and 12 faculty members attended the forum.

Report by: Dr.P.Ponmurugan, [drponmurugan@gmail.com](mailto:drponmurugan@gmail.com)

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Success is walking from failure to failure with no loss of enthusiasm. -- *Winston Churchill*

Try not to become a person of success, but rather try to become a person of value. -- *Albert Einstein*

Don't be afraid to give up the good to go for the great. -- *John D. Rockefeller*

All progress takes place outside the comfort zone. -- *Michael John Bobak*

## Mepco Schlenk Engineering College , Sivakasi

### Workshop on Eclipse

The IEEE SB of MSEC organized a workshop on “Eclipse” on 1<sup>st</sup> Feb, 2016 by SB office bearers Ms. A. Soundarya and Ms. Priya varshini of 3<sup>rd</sup> year B.E/CSE. The objective of the workshop was to train the students on ECLIPSE IDE with a focus to develop web applications. After a brief introduction on web based application, the features of ECLIPSE IDE were discussed. Practical demonstration of developing a web application using ECLIPSE IDE was also held.

Report by: Ms. Sumi Soundarya, [sumisoundarya96@gmail.com](mailto:sumisoundarya96@gmail.com)

### ORTO BRAINIA

An event named ORTO BRAINIA was conducted on 24<sup>th</sup> Feb 2016 to sharpen the brains of budding engineers. The event also focused on the whimsy of the students in distinct situation. The first session on BRAIN TEASERS was conducted by Mr. Veera Arjunan, In the second session conducted by P.S. Anujah there were three rounds -- TECHNO JUMBLE, identifying jumbled technical words; CONNECTIONS in which technical terms were to be identified with the help of related pictures; FIND THE LOGO of some organizations, institutions, industries, companies etc.

Repor by: Mr.Vinith

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## M. Kumarasamy College of Engineering, Karur

### Intra-Collegiate Meet, CARTEL 2016



The IEEE SB and WIE chapter organized an intra-collegiate meet, CARTEL 2016 on 7<sup>th</sup> Mar, 2016. The events included opportunities for professional development and networking.

Various events conducted included “Chase if you can” and “Geek quiz”, Treasure Hunt, “Make it Simple”, and “Eye Spy”. . The guests were Ms. Shyamala and Mr. Dinesh Kumar

### Inter-collegiate Meet, GRAUCIOUS 2016



The IEEE SB and WIE of MKCE organized an inter-collegiate meet, GRAUCIOUS’16 on 4<sup>th</sup> Ma 2016. About 160 SB officers, members and students from various reputed institutions like SASTRA University P.S.N.A College of Engineering, K.S.R Engineering College, Chettinadu College of Engineering, National Engineering College, Knowledge Institute of Technology etc., actively participated in this event. The chief guest was Dr. K. Sundararaju, Dean/EE, IEEE SB counsellor gave a motivational talk on the scientific developments, India has undergone. Mr .S. Mohamed Azarudeen, Chairperson, IEEE

R10 Volunteer delivered the keynote address on "IEEE Students Volunteering". Prof. M. Yuvaraj, HOD/EEE

presided over the meet. Various events included “Chase if you can”, “Geek Quiz”, “Make it Simple” and “Eye Spy”. IEEE MKCE SB activities were presented by Mr. S. Mohamed Azarudeen, Chairperson, IEEE SB.

### **Intra-Collegiate Meet - FEITO 2016**

The IEEE SB organized, FEITO’16, an intra-college meet on 8<sup>th</sup> Feb, 2016. 78 students participated in the meet. “BULLET TRAIN” and “FUN BUS” were the events conducted. The event also gave knowledge about current affairs and organizing opportunities for the IEEE volunteers. This event was conducted by IEEE student volunteers Ms. Hemamithra and Mr. Kalaivanan.

### **Industrial Automation Workshop**

The IEEE SB organized a workshop on “Industrial Automation” on 8<sup>th</sup> Feb, 2016. Mr. Gopu was the resource-person. He gave the insights on the subject using SCADA software along with a practical session.

### **Intra-Collegiate Meet - SPARZA 2016**



The IEEE SB organized an Intra-collegiate meet, SPARZA 2016 on 30<sup>th</sup> Jan, 2016. The meet consisted of two events EQUIPE AND CERVEAU.

The events were conducted by the students of II year EEE Mr. Arnold Wilson and Mr. Kalaivanan.

The events were targeted at increasing the student’s communication skills and crisis management.

*Report by: Mr. P. Sairam, [sairamprakasamr@gmail.com](mailto:sairamprakasamr@gmail.com)*

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## **Sri Muthukumaran Institute of Technology, Chennai**

### **Awareness Programme on “Robotics”**

The COMSOC Chapter organized an awareness programme on “Robotics” on 31<sup>st</sup> Jan, 2016 by Mr. Parthiban and Mr. Puneet Murthika from Lema Labs, an education start-up incubated at IIT Madras Research Park. The presentation started with videos on latest robots in different fields and countries. The highlight was the images of 21st century food products and a videos related to the manufacturing of the Coco-Cola where most of the work done by machines. Details of the Kaizen Robotics Program Certification by Lema Labs were shared to the participants.

### **One-day workshop on “Embedded Systems”**

The IEEE SB of SMIT conducted a one-day workshop on “Embedded Systems” on 6<sup>th</sup> Feb, 2016 with Mr. Mugilan G.N.S, Chairman, COMSOC Chapter as the resource person. The workshop was attended by around 40 students. Mrs. .D Shanthi Chelliah, HoD/ECE, Dr. Padma Subramaniam, Principal and Administrative Officer, Mr. Veera Rahavan, Administrative Officer felicitated at the workshop. The workshop sessions covered the advantages of embedded systems, 8051 mC pin description, LM298, LCD display pin out configuration, Arduino, Proteus and Embedded C programming and hands-on project demonstration using GPS module.

*Report by: Mr.Mugilan G.N.S, [mugilangns@gmail.com](mailto:mugilangns@gmail.com)*

## National Engineering College, Kovilpatti

### TECH CONNECT

The IEEE CS student branch of NEC organized, “TECH CONNECT” event on 9<sup>th</sup> and 10<sup>th</sup> February, 2016 in which 23 teams participated. This technical proficiency event consisted of two rounds. Naveen Kumar.G & Siva Rama Krishnan. M.C of 2<sup>nd</sup> year, B.Tech (IT) were the first prize winners.

### Technical Talk on “Information Theoretical Entity”



On behalf of IEEE ITS Madras Chapter, a technical talk on “Information Theoretical Entity” by Dr. V. Gomathi, Prof., CSE, NEC was organized on 4<sup>th</sup> Mar 2016.

In her talk, Dr. Gomathi gave a brief introduction to information theory and the methodology for measuring information. She also discussed about entropy, source coding theory, Shannon – Fanon encoding, Huffman coding and the relationship between different types of coding with examples. More than 45 CSE PG Students attended the talk and benefited.

Report by: Dr.B.Paramasivam, [hodcse@nec.edu.in](mailto:hodcse@nec.edu.in)

## Panimalar Institute of Technology, Chennai

### IoT Workshop



The IEEE SB along with IEEE COMSOC, Wingfotech Excellence & IIT Madras organized a National Level Workshop & Challenge on “INTERNET OF THINGS” on 20<sup>th</sup> and 21<sup>st</sup> Feb, 2016.

The workshop sessions included: Introduction to IoT, its needs and scope, Practical sessions on Arduino basics and on interfacing sensors with Arduino. 57 students attended the workshop, which had an IoT contest on the second day. The winners of the contest will have the opportunity to participate in Chemclave 2016 to be held at IIT Madras

Report by: Mr. M. Arun, [arunmeieee@gmail.com](mailto:arunmeieee@gmail.com)

I don't know the key to success, but the key to failure is trying to please everyone. -- *Bill Cosby*

The only place where success comes before work is in the dictionary. -- *Vidal Sassoon*

The successful warrior is the average man, with laser-like focus. -- *Bruce Lee*

Successful and unsuccessful people do not vary greatly in their abilities.

They vary in their desires to reach their potential. -- *John Maxwell*

## PSNA College of Engineering and Technology, Dindigul

### National Symposim -- MEDUT 2K16



IEEE-EMBS SB chapter organized a two-day national level symposium on 23 & 24 Feb 2016 sponsored by EMBS Chapter Activities Funding Program. On the first day of the symposium, Dr.V. Soundararajan, Principal of PSNACET, Dindigul delivered the presidential address. Mr. Elango Devy, Managing Director at Diabetik Foot Care India Pvt Limited, Chennai briefed about the importance of entrepreneurship and role of an individual in bringing up innovative ideas in the field of Medical Devices. On the second day, Dr.Kezi Selva Vijila, Principal, Christian College of Engineering and Technology (CCET) delivered a keynote address on Benefits of IEEE Membership and Dr.Ponmurugan, IEEE EMBS Madras Chapter Secretary delivered the keynote address and spoke about Biomedical applications of LICHENS and distributed the prizes to the winners of the various events. Out of 168 papers received, 75 were selected and 64 were presented in parallel tracks..

PAPERONICS (Paper Presentation) and KNIT (Know it – Poster Presentation) were of the events that dealt with technical and innovative ideas. Technical jury panel comprised of Mr. Lijo Jacob Varghese, Head/EEE, CCET; Dr. Gopi Swaminathan, Head/ECE, SSM Institute of Engineering and Technology (SSM); Dr.Adalarasu, Professor/ECE, PSNACET; Dr. S. Muthukumar, Prof/EEE, PSNACET; Dr.Kezi Selva Vijila, Principal, CCET; Dr. Karthikeyan, Head/EEE, SSM; Dr.Athisa, Prof/ECE, PSNACET and Dr.Gerald Christopher Raj Professor/EEE, PSNACET.

*Report by: Mr. P. Mohan Kumar, [mohanpalanichamy23@gmail.com](mailto:mohanpalanichamy23@gmail.com)*

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## SA Engineering College, Chennai

### IEEE Awareness Programme



The EEE Dept., in association with IEEE Photonics Society Madras Chapter organized the “IEEE - A Platform to Enhance Your Career”, a student’s awareness programme on 29<sup>th</sup> Feb 2016. Around 300 students attended the programme. Dr. S. Priya HOD/EEE, S.A.Engineering College welcomed the gathering. The chief guest Mr. T. D. Subash, Chairman, IEEE Photonics Society Madras Chapter outlined the Mission and Vision of IEEE, benefits of membership, Xtreme – 24 Hours Programming Competition, Project Funding and Rewards provided in his talk. He emphasized the significance of a SB in an institution and how to operate as per IEEE Bylaws. He also highlighted the benefits of IEEE Spectrum, Job Site & Resume Labs, Awards, Scholarships, Project related funding and Travel Grants and provided awareness to the faculty members about the Faculty Development Programs (FDPs), National and International Conferences, Industrial Visits along with the IEEE for the benefit of the students.

*Report by: Mr. T.D. Subash, [tsubash2007@gmail.com](mailto:tsubash2007@gmail.com)*

## Sri Sairam Engineering College, Chennai

### High Performing Student Branch Chapter Award

The IEEE PES SB chapter of SSEC won the “High Performing Student Branch Chapter Program (HPSBCP) Award” of IEEE Power and Energy Society. The SB stood 12<sup>th</sup> place globally and received a cash award of \$334.33. IEEE PES SB chapter is the first among the six academic institutions from India and the only one to receive the award from Tamil Nadu.

### Industrial Visits



The IEEE PES Student Chapter organized a one-day Industrial Visit to Tambaram Railway Traction Sub-Station on 26th Feb 2016 with 50 Students

The students were introduced to traction motor, electrical drives, pantograph and power converters.



The IEEE PES Student Chapter organised a one-day Industrial Visit to TNEB Siruseri Auto Sub-Station on 25th Feb 2016 with 50 students .

The students learnt about the role of SCADA in modern Sub-Station, Auto-Transformer, Power Transformer, Circuit Breaker, Relay, Power Line Communication etc.,

### Guest Lectures



The IEEE PES SB chapter organized a lecture on “Solar PV System and its Trust Area” by Mr. G.Raja Ganesan, Director, Vatio Energy Pvt.Ltd, Chennai. on 11th Feb 2016.

The lecture covered different types of Solar Panels, Solar Inverters and Charge Controllers. It was attended by 120 students.



The IEEE PES Student Branch Chapter organised a Guest Lecture on “Industrial Automation” by Mr.Venkatesh Selvaraj, Excel Automation Solutions, Chennai on 9th Mar 2016.

The lecture was attended by 120 students and covered various aspects of PLC, SCADA, and DCS.

Report by: Mr. Siva Subramaniam C.N, [mr.siva.1995@ieee.org](mailto:mr.siva.1995@ieee.org)

## Satyabhama University

### National Symposium - Silicon 2016



The IEEE SB organized Silicon 2k16, national-level technical symposium on 17<sup>th</sup> and 18<sup>th</sup> Feb 2016. The event started with an inaugural ceremony with Dr. Mariazeena Johnson, Director of Sathyabama University presiding and Mr. H.R.Mohan, Vice Chairman of IEEE Madras Section as the chief guest. Dr. G .Sundari, IEEE SB counselor welcomed the gathering. Mr. H. R. Mohan in his inaugural address spoke on latest trends and technologies and also motivated the students to exhibit their innovative ideas for the societal benefits and the brighter future of the country at large. Various technical events of the symposium included Paper Presentation, Spark, Jam, Find and Code, B-Quizzed, Project Display and Clash of Circuits.

Report by: Dr. G. Sundari, [sundarig2014@gmail.com](mailto:sundarig2014@gmail.com)

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## Sona College of Technology, Salem

### SONAUTSAV 2016

Sona College of Technology, Salem celebrated **SONAUTSAV 2016**, is a techno-cultural event for three days from 25<sup>th</sup> to 27<sup>th</sup> Feb 2016. IEEE & WIE Student Branch organized a technical event “CRIZ TREASURAZE” with 72 participants on 25<sup>th</sup> Feb 2016. Finalists were selected through three rounds of events - MOLD ME, TECH TREASURAZE, and DESIGNING THE CIRCUIT.

Report by: Ms. Padma Sanjeevi, [swanisha@gmail.com](mailto:swanisha@gmail.com)

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The reasonable man adapts himself to the world; the unreasonable one persists in trying to adapt the world to himself. Therefore all progress depends on the unreasonable man. -- *George Bernard Shaw*.

A discovery is said to be an accident meeting a prepared mind. -- *A. von Szent-Gyorgyi*.

Two roads diverged in a wood, and I took the one less traveled by and that has made all the difference. -- *Robert Frost*.

The only way to discover the limits of the possible is to go beyond them into the impossible. -- *A. Clarke*

## SRM University, Ramapuram Campus, Chennai

### Technical Talk



IEEE CIS Madras Chapter and the IEEE SB of SRM University, Ramapuram Campus conducted a guest lecture on "Distributed Generation to satisfy prevailing and future load demand" on 20<sup>th</sup> Feb 2016. The lecture was delivered by Dr. N. Kumarappan, Professor of Electrical Engineering at Annamalai University and the Chair, IEEE CIS, Madras Chapter. Dr. B. Ramapriya, HOD/EEE and SB counselor welcomed the gathering. Dr. N. Kumarappan, enthusiastically gave an overview of the activities and achievements bagged by IEEE across the globe, the benefits of being an IEEE member and also on how to approach towards publishing in IEEE. He enlightened the students about the distributed generation to satisfy prevailing and future load demand and the need of to set up the same across India especially in the rural areas to meet the growing power demands.

Report by: Dr.N. Kumarappan, [kumarappann@gmail.com](mailto:kumarappann@gmail.com)

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## SSN College of Engineering, Chennai

### Training Programme on "Visual Evoked Potential (VEP)"



The IEEE SB of SSNCE organized a training program on "Visual Evoked Potential (VEP) and Practical Hands-on Session on Acquisition of VEP" by Mr. Sandeep, Application Engineer, BIOPAC-India, Gentech Systems, New Delhi on 30<sup>th</sup> Jan 2016.

About 25 members including PG students participated in the programme organized by faculty members, Dr. S.Pravin Kumar, Dr. V. Mahesh. The training programme included a demo on MP BIOPAC kit and its software. The features of the kit were explained and there was a detailed explanation of various options available in the software.

### Technical Lecture on Resonant Converters

The IEEE SB of SSNCE organized a technical lecture on "Resonant Converters" on 18<sup>th</sup> Feb 2016. The resource-person was Dr. M. Prabhakar, Associate Professor, SELECT-VIT, Chennai Campus. About 20 students attended the lecture which was organized by Dr. R. Ramaprabha & Ms. S. Malathy. Dr. M. Prabhakar explained the principles

and applications of soft switched converters. He demonstrated the different types of soft switched converters with case studies and practical show pieces.

### Technical Lecture on Power System Protection in Smart Grid

The IEEE SB of SSNCE organized a technical lecture on “Power system protection application in smart grid systems” on 27<sup>th</sup> Feb 2016. Over 150 students attended the lecture delivered by Dr. K. N. Dinesh Babu, Lead Application Engineer, General Electric, Chennai. The lecture covered power system components in a sub-station and SCADA, KIOSK FUNCTIONS and power loss reduction techniques. The lecture was organized by Dr. R. Ramaprabha, Assoc Prof/EEE & Ms. S. Malathy, AP/EEE.

Report by: Dr. R. Ramaprabha, [ramaprabha@ssn.edu.in](mailto:ramaprabha@ssn.edu.in)

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## St. Peter’s College of Engineering and Technology, Chennai

Talk on “Introduction to Verilog Programming” by Dr. V.Amudha, SB Counselor on 5th Feb 2016



Lecture on, “Job Opportunities for Engineers in Financial Sector” by Ms. S. Vinithra, Assistant Manager, Indian Bank, on 12th Feb 2016

Report by: Dr. V. Amudha, [v.amudha.in@ieee.org](mailto:v.amudha.in@ieee.org)

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## Velammal College of Engineering & Technology, Madurai

### Intercollegiate Project Contest



The IEEE SB conducted an Inter Collegiate IEEE Project Contest for the students on “Recent Trends in Engineering Applications” on 11<sup>th</sup> Feb 2016. Dr. A. Shunmugalatha Prof & HOD / EEE welcomed all the participants. Fifty one batches of students from various Institutions presented their project models. Dr. R. Deepalakshmi Professor / CSE and Dr. S. Dhanalakshmi, Associate Professor / EEE were the Judges for the contest. Three projects were selected for prizes based on innovation, technical content and social relevance. Principal Dr. N.Sureshkumar presented the certificates and prizes to the winners and appreciated both the prize winners and participants. Dr. N. Karpagam, Prof/ EEE – IEEE SB Counsellor organized the event.

Report by: Dr. N. Karpagam, [n.karpagam@vcet.ac.in](mailto:n.karpagam@vcet.ac.in)

## IEEE Computer Society Madras Chapter Activities

**12-13 Feb 2016:** Workshop on “Fundamentals of Data Analysis, Analytics“



A two-day workshop on “Fundamentals of Data Analysis, Analytics“ for young Teacher-Researchers, Research Scholars and PG Students was organized on 12th and 13th Feb 2016 jointly by PSG Institute of Technology and Applied Research, Coimbatore and Sree Saraswathi Thyagaraja College, Pollachi with the professional support of IEEE Computer Society ( Madras Chapter) and Computer Society of India (Coimbatore Chapter).The resource persons were drawn from both academia and industry. The various sessions of the workshop included the following:

- Dr. L. S. Ganesh, Head Management, IIT Madras introduced the basic concepts such as Data; Measurement of data; Data Collection; Decision making; Visual Representations of Data; Unitary and Integrated Summary Measures for Numerical Characterization of Data; Dealing with Uncertainty and Risk; Types and Laws of Probability; Random Variables; Sampling Distributions; Statistical Estimation; and Hypothesis Testing to the participants with interesting real life examples.
- Mr. C. Kumaravel, Mr. Gauri Shanker Ram from Latent view Analytics shared their industry experiences on Big Data Analytics. Both of them quoted examples from the solutions given by Latent view to various customers worldwide. They had also shared some of the career opportunities open for data scientists in industry.
- Mr.Gopalakrishnan of CTS shared his research and industry experiences on “Big Data Analytics” He gave a road map on the list of steps to be followed to solve a business problem based on “Big Data Analysis” in the decreasing order of importance.
- Prof Nandan Sudarsanam of IIT Madras shared his research and consultancy experiences on Machine learning and Data science. In Machine learning, he explained supervised and unsupervised learning with interesting real time examples. He also discussed about descriptive and inferential statistics.

The workshop ended with an Open House Session, where the resource persons addressed the queries of the participants and discussed research issues in Data Analysis and Analytics.

The workshop attracted about 150 participants: 83 Research Scholars + PG students, 22 faculty members, two from industry, and a few senior UG students.

**27<sup>th</sup> Feb 2016:** Talk on "Visual Cryptography" by Dr. R. S. Bhuvaneshwaran, Associate Professor, Ramanujan Computing Center College of Engineering, Anna University Chennai.

**6<sup>th</sup> Mar 2016:** CSI Day Celebrations. Student members from various colleges presented their innovative projects. As a part of the celebrations, an ICT Quiz was conducted by Mr. H.R. Mohan, Chair, IEEE CS.

**12-13 Mar 2016:** Two-Days Hands-on Graphic Design Workshop at Chennai.

**14<sup>th</sup> Mar 2016:** Talks on "Life as Software Engineer" and "Final year CS Projects" by Dr. Jey Veerasamy, Director of Center for Computer Science Education & Outreach, CS Teaching Faculty, University of Texas at Dallas, USA.

**22<sup>nd</sup> Mar 2016:** Workshop on "COMSOL Multiphysics 5.2 and Application Builder" at Chennai.

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## Entrepreneurship & Innovation Committee Activities

### Startup Grind Chennai Feb 2016



Startup Grind Chennai hosted Mr. C. R. Chandrasekar, Founder of FundsIndia on 19th Feb 2016 at IIT Research Park. Startup Grind is a global startup community designed to educate, inspire and connect entrepreneurs and is powered by Google for Entrepreneurs which aims to empower entrepreneurs around the world through programs, partnerships and S.M.A.R.T Advisors which is a leading strategy advisory firm based out of Chennai focused on Startups, early stage companies and provide strategy consultancy, fund raising advisory, and virtual CFO services.

In this event, Chandrasekar shared his success story and talked about the struggles he faced in his journey to come this far. When asked by Sriram, the director of Startup Grind Chennai about his darkest moments, his answer 'I did not face any dark moments in my journey' and 'Struggle is in mindset and not in the work' brought a round of applause. The business was all about changing people's mindset and convincing them to believe that something superlative is achievable in long term. They had to convince them that not to fear about money as it is something that is secure with them and will obtain the benefit of their investment down the line. E-commerce success was instrumental in people believing their startup also. Initially it was tough but they have now managed to attract customers more than they expected. They are headquartered at Chennai and Chandra mentioned it not as a setback but a contributory to his success. Through FundsIndia, Chandra aims to educate and empower investors so that they can comprehend and execute the knowledge acquired towards making smart investments.

*Report by: Khushbu Agrawal, IEEE NPSS VIT member*

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**The art of effective listening is essential to clear communication,  
and clear communication is necessary to management success.**

***-- James Cash Penney***

## Startup Weekend Chennai 2016



Startup Weekend Chennai – Kurukshetra Edition was hosted at College of Engineering, Guindy during 19<sup>th</sup> Feb – 22<sup>nd</sup> Feb 2016. The event was organized in collaboration with IEEE Madras Section – Entrepreneurship & Innovation Committee.

The event was a good opportunity for the enthusiastic students and young entrepreneurs to collaborate, learn, network and build innovative ideas into

startups with the help of mentorship and support from experts in the industry. The event started with the ice-breaking session followed by pitching ideas by the participants. The top 15 ideas were selected through voting and teams were formed to build the ideas into prototypes. The Day two of the event included the mentor support sessions for the participants. Successful entrepreneurs from the industry including Mr. K. Senthil COO & Co-founder, Frilp, Mr. Surendranath, CEO, REDD Robotics, Mr. Jaydeep, Founder at Halbe Innovations have molded the ideas from the participants with their experiences. The evening was a fun filled group dance activity performance by each team to engage the participants outside of the routine. It was an interesting fact that the winners of the fun activity can decide the pitch order for the next day. Followed by the fun team activity, participants worked on the final prototype to be displayed on the last day.

Day three of the program included the final pitch where the participants showcased their ideas along with a working prototype to a panel of judges. Top three teams were selected as winners and others were provided with valuable suggestions for improving their product to meet the customer expectations. Overall, the event provided an outstanding platform to understand more about Entrepreneurship and the wonderful experience of working on a startup with a passionate team in just three days.

Report by: Aravindhan Anbazhagan, [aravindhan@computer.org](mailto:aravindhan@computer.org)

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## Section Technical Meeting



A technical meeting on “Visual Cryptography” by Dr. R. S. Bhuvaneshwaran, Associate Professor, Ramanujan Computing Center, College of Engineering, Anna University Chennai was organized in association with IEEE Women In Engineering, IEEE Education Society, and IEEE Computer Society on 27<sup>th</sup> Feb 2016 at Chennai. Dr. Vydeki Vijayakumar, Chair, Madras IEEE WIE welcomed the gathering and formally introduced the speaker. Dr. Bhuvaneshwaran, in his talk explained with examples about visual cryptography, a

cryptographic technique which allows visual information (pictures, text, etc.) to be encrypted in such a way that decryption becomes the job of the person to decrypt via sight reading. The session attracted a lot of queries from the participants as the Security & Forensics are becoming very important in the digital age. Mr. H.R. Mohan, Vice Chair, IEEE MAS & Chair IEEE CS, while presenting a memento to the speaker said, that a workshop with hands-on session would be organized for the benefit of professionals and researchers. The presentation is shared at <https://drive.google.com/file/d/0B3HJ2knpFzKHc1RnWENXVHoxQ3M/view?usp=sharing>

## 2016 IEEE Mini POCO (Panel of Conference Organizers)



IEEE, the world largest professional association for advancement of technology, with over 4,30,000 members across 160 countries, represented by the IEEE Madras Section in Chennai, organized a one day 2016 IEEE Mini POCO (Panel of Conference Organizers) meet, on 28<sup>th</sup> Feb 2016 at Hotel Deccan Plaza, Chennai, Tamilnadu, INDIA, jointly sponsored by IEEE Madras section and IEEE Region 10 (Asia Pacific Region).

In this Mini POCO over 100 attendees from different parts of India had opportunity to acquire knowledge, network and exchange ideas among them. The event attendees were mixture of IEEE members, non-members, members of other professional organizations, faculties and researchers representing various engineering and technology institutions across the country.

Dr. R. Hariprakash, the Organizing Chairman of 2016 IEEE Mini POCO, in his opening and welcome address highlighted the need of such conference organizers meet and the importance of creating awareness about the quality and global standards to be followed by conference organizing institutions. He expressed that, if International Conferences governed by standards are conducted then good quality research papers will be published; this can make our country to be ahead of our neighboring countries on quality research contributions. He thanked all the participants for the interest shown and the speakers, members of IEEE Madras Section and R10 for their support and the success of this event.

Shri. K. Ramakrishna, Director, IEEE R10 (Asia Pacific Region), formally inaugurated Mini POCO and in his inaugural address, stressed the importance of IEEE and the future projects of IEEE. He also briefed the edge of the IEEE over other professional organizations. He appreciated the organizers for the standards followed in organizing this Mini POCO and wished if Madras Section is able to architect such quality and standard Mini POCO, then India can host IEEE POCO in the years to come. He also launched the eVersion of the newsletter, IEEE MAS LINK Feb 2016 issue.

Dr. M. A. Atmanand, Chairman IEEE Madras Section in his address emphasized on the importance of the quality of research papers and appreciated the efforts taken by the organizing committee. He also shared his views on the interest shown by the participants and the plan to have one more Mini POCO by Madras Section in months to come.

Mr. H. R. Mohan, Vice Chair IEEE Madras Section in his felicitation address stated that conferences are the best platform for exchange of ideas and for networking. There are great expectations from the user community to know the various avenues available for sponsorships etc., for organizing conferences.

Dr. P. Sakthivel, Treasurer, IEEE Madras Section offered the formal vote of thanks, which concluded the inaugural session of Mini POCO 2016.

In the first technical session, Dr. T. Thyagarajan, Director, Center for University Industry Collaboration, Anna University presented on “Strategic planning and quality aspects for a good conference”. He emphasized the needs for conference event planning, timeline management, implementation and execution, and the importance of team work for a successful conference with high quality.

The second technical session was on “Challenges in Peer Review and Scholarly Publications” by Dr. M. A. Atmanand, Scientist-G, National Institute of Ocean Technology, Chennai. He highlighted on Impact factor, H-Index, Citation Index (CI), Eigen Factor (EF) and the system to be developed for peer review process.

The next session on “Plagiarism Screening with CrossCheck – Innovative tools” was presented by Shri. T.S. Rangarajan, Principal Consultant, Tata Consultancy Services. He presented the insights of Plagiarism, CrossCheck tool and the after effects of detecting plagiarism publications. He advised the researches to leverage the Intellectual Property Rights (IPR) team and staff of IEEE for assistance.

The attendees after the lunch break had a presentation on “How to write a good Journal Paper” by Prof. V. Jagadeesh Kumar, Professor, Indian Institute of Technology (IIT), Madras. Prof. VJK in his, presentation briefed the concepts and characters of good paper, literature survey, research survey, journal selection etc.; He shared his experience on the expectations of Technical Program Committees for selection and acceptance of journal papers.

Prof. R. Hariprakash, Dean (E&T) Meenakshi Group of Institutions and Organizing Chairman of Mini POCO, presented on “IEEE Conferences Best Practices in Key Areas”. In his presentation, he insisted the importance of best practices to be followed for a quality and standard conference. The best practices to be followed in key areas namely the conference formation, finance management; technical program committee, sponsorship and approval process, publications and marketing were presented. The availability of webinar series, e-learning modules and the IEEE MCE leadership of excellence and its operations were highlighted to the participants by him.

Mr. Harsih, Director IEEE India Operations presented on the “Formats, Funding Procedures for IEEE Conferences”. Mr. Harish, presented the steps involved in the preparation of application and submission of the proposal for funding from IEEE. He informed the attendees on the initiatives taken by IEEE for development of materials by IEEE MCE, and requested one and all to utilize the services of his office for any assistance.

The attendees represented by Prof. Aaditya Lohana, Director of Universal Education, Mumbai thanked the organizers for meticulously organizing this event, the speakers of the event and wished more such programs are conducted for the betterment of teaching community. There was unanimous opinion and desire among the participants to have many such programs.

More than 100 participants from various parts of the country including from Uttrakhand, Kerela, Punjab, Karnataka, Mumbai, Andhra Pradesh, Telengana and Tamilnadu attended this 2016 IEEE Mini POCO. The copies of the presentations made by the speakers were provided to the participants in a 16GB pen drive.

The 2016 IEEE Mini POCO concluded with a formal vote of thanks by Dr. R. Hariprakash, the Organizing Chairman expressing sincere gratitude to one and all for their contributions for the success of this event. He also thanked the IEEE Madras Section and R10 office bearers & members for the funding.

The presentation copies are available at

<https://drive.google.com/folderview?id=0B3HJ2knpFzKHWGFqVnMyX2M0ZTA&usp=sharing>

To photos taken at the Mini POCO are shared at <https://www.facebook.com/IEEEminiPOCO2016chennai/>



Report by: Prof. Dr. R. Hariprakash, [rhp\\_27@ieee.org](mailto:rhp_27@ieee.org)

## Activities of IEEE ADSF SIGHT

### Selection of Volunteers



Mr. Dhanasekhar C, Training Lead, Er. Simon, Volunteer, and Miss.Divya.C, Joint Secretary of IEEE ADSF SIGHT volunteered to identify suitable students for the project “Technology Adoption for the Reduction of Vulnerability in Fishing”. Mr. Dhanasekhar and team Trinity College of Engineering, Trivandrum on 06<sup>th</sup> January 2016; Er. Simon and team the Government Engineering College; Tirunelveli and Cape Institute of Technology on 22<sup>nd</sup> February 2016.

They talked about the problems faced by the artisanal deep sea fishers and how the project “Technology Adoption for the Reduction of Vulnerability in Fishing” has evolved. They also discussed the role of engineering students in the project. Some students showed interest in our projects.

### Technology Dissemination and Awareness Creation



Tricycle was one of the major attractions.

We participated the Science Exhibition with a group of 20, including 3 drivers and 1 mechanic which was organized by the Holly Grace Academy of Engineering on 12-13 January 2016, in Thrissur, Kerala. The exhibits were categorised under Solar, Space, Nuclear and Marine. ANERT, ISRO, Kudankulam Nuclear Plant and were among the participants. Under Marine section, we exhibited Out board engines and spares, various boat models, various fishing gears, GPS, Fish finder and wireless, Solar Powered Refrigeration Truck, Solar powered Tricycle and Life buoy. Chief Guest Dr. Unni Krishnan Nair, Deputy Director-STR, Vikram Sarabhai Space Centre, ISRO, Trivandrum inaugurated the exhibition. More than 4000 visitors including students, parents, public and others visited the Science Expo and our Solar



National Science Day is celebrated all over India with great enthusiasm on 28<sup>th</sup> of February, every year, to commemorate the discovery of the Raman Effect by CV Raman on the same day in 1928. We celebrated National Science Day on 18 February 2016 with solar riding, science models exhibition, projects and research demonstrations for school students.

Mr. Tamil Selvan, a volunteer, began riding a Solar Powered Tricycle from Scott Christian College Nagercoil to St. Nicholas High School, Neerodi, covering 49 kilometers. The focus of the event was to widely disseminate the significance of scientific applications in daily life.



Two science sessions were also organized in the John Bonal Matriculation School, Marthandanthurai and in the St. Nicholas High School, Neerodi. The team conveyed the message about the significance of science and technology and its applications in our daily lives. The session gave students more opportunities to interact with the team; and the students who performed well in the session received mementos. More than 250 students from two schools attended the science session.

## Training and Development



A candle training program was conducted at Star Candle Company, Parvathipuram, Nagercoil. Five fisher women from Thoothoor area attended the training. A full kit with mould and materials cost Rs. 3000.

The training company assured the fisher women that they will buy candles from them if the quality is acceptable and marketing will not be a problem. The women were eager and enthusiastic and hope this will help them become independent entrepreneurs.



We conducted one-day Training on Assembling of Solar Lantern and Solar Panel in association with AD SGAF at Gnanadason Polytechnic (MGPT) College on 20<sup>th</sup> February 2016. The training session had two sessions a theory part and a practical part. The theory part was handled by Prof. Mr. Gaswin Kastro, Faculty Lead IEEE ADSF SIGHT and Er. Simon, Volunteer, IEEE SIGHT. The practicals part was handled by Mr. Kumanan, Mr. Tamil Selvan and Mr. Mani Raj. The participants were given a task: to assemble the components and then solder them in a PCB board. Miss.

Amala Devi, Director, Project, and Miss. Divya Joint Secretary IEEE ADSF SIGHT joined with the practical team to guide the trainees. Mr. Franco, Treasurer, Mr. Dhanasekhar, Training Lead and Mr. Carey Humfrey Co-Training Lead have taken the responsibility of organizing this training programme.

## Relationship Building Exercise



As a first step towards keeping good relationships with SIGHT groups in India and across the world, we established contact with the IEEE Madras Section SIGHT. The meeting was on January 9<sup>th</sup> 2016, at Nagercoil, with Mr. Anand, Chairman IEEE Madras Section SIGHT, as the Chief Guest. Team building exercises, problem solving techniques, roles and responsibilities of office bearers and volunteers were the key points discussed in the one-day meeting. Many

of the members were new to IEEE and also to the SIGHT group so the meeting increased their awareness and orientation.

## Review Meeting at MGPT College



Organized a meeting led by Mr. Kumanan at MGPT College on 16<sup>th</sup> February 2016 to review the project, 'Solar Powered Small Ice Making Unit for Fish Vending Women' under "Technology Adoption for Reducing Vulnerability in Fishing".

The project team had issues choosing either AC compressor or DC compressor for their unit and it was suggested they meet a technical advisor in Trivandrum. They may resume their work after the exams.

*Reports by Ms. Divya. C, Joint Secretary, Mr. N. Kumanan, Mr. Carey Humfrey, Er. Angelin Indira, Ms. Amala Devi, and Mr. Dhanasekhar and edited by Mr. Vincent Jain, [jain1.siffs@gmail.com](mailto:jain1.siffs@gmail.com)*

## Information Resources

*Compiled by*

**H.R. Mohan**

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**Website: UXmatters** -- [www.uxmatters.com](http://www.uxmatters.com) : Founded by Pabini Gabriel-Petit in 2005, UXmatters provides insights and inspiration to both professionals working in all aspects of user experience (UX)—at every stage in their career—and students who are just beginning their journey in user experience. UXmatters offers a platform where the authors—who include many of the leading experts in user experience—can teach UX best practices to developing UX professionals and influence the future direction of the UX community. The information needs of the UX community are diverse, and UXmatters endeavors to satisfy them. The UXmatters articles provide comprehensive coverage of important UX topics, ranging from focused, practical, actionable advice and best practices; to concise overviews of broader topics; to deep thought pieces that explore strategic aspects of user experience. Many of the authors are UX thought leaders who write about innovative ideas that are important to the advancement of the UX industry as a whole.

**The Unofficial Guide To Dropbox:** You're at the coffee shop. You need to access a file that has information about your work, but as you attempt to find the file you realize you saved the work on your desktop computer, but only have your laptop with you. You have no way to access the file. Enter Dropbox. This program acts as a "magic pocket" which is always with you and contains whatever you place in it. Put a file into your Dropbox and it's on all of your computers and mobile devices. But there's more to Dropbox: you can use it for file sharing, backing up your data, syncing files between computers and even remotely control your computer. If you're not using Dropbox yet, you should be. This Dropbox Guide has all you need to get started. Informative, easy to read and completely free. <http://goo.gl/wu7KN9>

**3D printing: The smart person's guide:** 3D printing provides businesses the ability to quickly produce parts for rapid prototyping before employing traditional manufacturing techniques, and the ability to adopt just-in-time manufacturing to reduce warehousing costs. For hobbyists, 3D printing allows for the custom creation of parts to meet the needs of their projects, such as a plastic housing for a circuit board. This guide to 3D printing is both an easily digestible introduction to a new paradigm, as well as a "living" guide that will be updated periodically to keep IT leaders in the loop on new 3D printing technologies and ways in which they can be leveraged. This comprehensive guide covers the rise of 3D printing, common use cases and technical limitations, and what organizations adopting this technology need to know. <http://goo.gl/haAV4A>

**10 lessons from video gaming that have helped my career:** Mark Kaelin, the author of this post has been playing video games since the 1970s. Despite the typical gamer stereotype, he thinks gaming can teach some important career skills. I have been playing computer video games for more than 30 years now—it is one of my favorite hobbies. The interesting thing about playing games for so long is that through games I have trained my brain to process complex, sometimes seemingly unrelated data into actionable information—a skill that has proven invaluable for my career. As Steve Johnson explained in *Everything Bad Is Good for You: How Today's Popular Culture Is Actually Making Us Smarter*, playing games provides tools needed for a successful career in information technology. Along the way, games have also taught me many lessons about life, work, and problem solving. Here are 10 things I learned from being a gamer all these years. <http://goo.gl/sVpnu9>

**Telecoms.com Intelligence Annual Industry Survey – 2016:** This year's survey took in the thoughts and perspectives of more than 1,500 telecoms professionals with a staggering cumulative experience of 24,000 years. As usual we begin with our comprehensive sweep of the telecoms landscape, before taking a deep dive into six specific areas affecting telecoms today. From big data and BSS to IoT and NFV, we examine the principal areas affecting telecoms operators today. More than half of the respondents to the 2016 survey originated from mobile or fixed operators, so the findings you'll come across in this report provide a uniquely significant insight into the most common challenges and mindsets of people working on the ground in the telecoms industry today. Some of our key findings this year are: 86% of operators say they're not ready to launch or monetise IoT; 74% say industry consolidation activity will drive telco network investment; 43% say VoLTE will be launched before 2016 is out;

83% reckon LTE still hasn't reached maturity; and 73% of respondents said all telco IT systems will be cloud-based in the future. <http://goo.gl/oU2Yqy>

**Free Book: Computer, Network, Software, and Hardware Engineering with Applications:** Author(s): Norman F. Schneidewind; Publisher: Wiley-IEEE Press; Topics: Communication, Networking & Broadcasting ; Components, Circuits, Devices & Systems ; Computing & Processing; Copyright Year: 2012.

There are many books on computers, networks, software, or hardware engineering. However, this one is different: it provides a comprehensive approach that integrates all of these components with applications. Moreover, it takes into account the people and organizations who depend on computer systems, enabling readers to design and deploy a seamless and secure computer-based system that meets the needs of all users. Computer, Network, Software, and Hardware Engineering with Applications sets forth a step-by-step, total system approach to quantitatively analyze the performance, reliability, maintainability, and availability of computers, networks, software, and hardware. Moreover, the author explains how to evaluate and minimize the risk when deploying these integrated systems. Following the author's clear explanations, readers will master:

- Quantitative models to solve core computer, network, software, and hardware engineering problems
- Mathematical and statistical models to test for reliability, maintainability, and availability
- Statistical process and product control
- Fault tree analysis and risk management
- Effective resource allocation and assignment
- Comprehensive computer and network security
- Optimal network routing

Each chapter begins with an abstract outlining the core concepts. Throughout the book, quantitative examples help readers understand and interpret model results. Practice problems enable readers to use the principles set forth in the book to design and implement their own integrated solutions. This book is ideal for students and professionals in computer, network, software, and hardware engineering. It will provide them with an essential set of tools and a new big-picture perspective for designing and implementing optimal computer-based systems solutions. Access it at <http://ieeexplore.ieee.org/xpl/bkabstractplus.jsp?bkn=6168884>

**eBook Classics for IEEE Members:** Thirty-one new titles were added for the 2016 membership year, making a total of 330 books available for free download. IEEE members now have access to 330 eBooks from the IEEE Press collection through IEEE Xplore, at no additional cost. The eBook collection spans a number of today's technologies across 15 different content areas, and includes: Practical handbooks; Introductory and advanced texts; Reference works; and Professional books. New eBook Classics gets added every year.

*Finding IEEE eBook Classics*

- Sign in to IEEE Xplore using your IEEE Account
- Under the "Browse" heading in the left-hand navigation, click on "Books."
- Select the "Classics" tab from the top of the page. Under this tab you will find a listing of all the free titles.

**The 10 best tips for anyone who wants to work in science or engineering:** In today's world of unlimited possibilities, it's pretty darn hard to know what you want to do when you 'grow up'. But one thing's clear - if you want to change the world, there are few careers that offer a better opportunity to do just that than those in science, technology, engineering, and maths, also known as STEM. Every single day, new breakthroughs are happening in space, medicine, artificial intelligence, technology... although I guess if you're reading this site we probably don't need to tell you how awesome science is. Still, it's hard to know how to go from high school enthusiast to the person making the discoveries and creating the game-changing technology. So we've teamed up with Florida Polytechnic University, the state's only university dedicated to STEM subjects, to put together the best advice for anyone interested in a career in science or engineering. <http://goo.gl/edWfx8>

**Where do we want to be in 20 years and how do we get there?:** A look at the dozens of recommendations and ideas under consideration about the future of Stanford Engineering. <http://soefuture.stanford.edu/mission>

**How Storytelling Makes Robots, AI More Human:** Researchers at the Georgia Institute of Technology's (Georgia Tech) School of Interactive Computing are attempting to imbue robots with more ethical behavior by education via storytelling. The Quixote system developed employs narrative for robot reinforcement training, and they report successively changing "socially negative" robot behavior under lab conditions. The researchers overarching goal with Quixote is to help enable more human-like human-robot interaction, especially when it comes to programming robots to do a task. <http://goo.gl/dwl9sv>

**Google Unveils Neural Network With 'Superhuman' Ability to Determine the Location of Almost Any Image:** Google computer scientists have trained a deep-learning machine called PlaNet to determine the location of almost any photo using only the pixels it contains. The researchers initially divided the world into a grid consisting of more than 26,000 squares of varying size depending on the number of images taken in that location. They then created a database of geolocated images from the Internet and used the location data to determine the grid square in which each image was taken. The dataset consisted of 126 million images as well as their corresponding Exif location data, and the researchers used 91 million of these images to teach a neural network to determine the grid location using only the image itself. They validated the neural network using the remaining 34 million images in the dataset. Finally, the researchers measured the accuracy of the machine by feeding it 2.3 million geotagged images from Flickr to see if it could correctly determine their location. "PlaNet is able to localize 3.6 percent of the images at street-level accuracy and 10.1 percent at city-level accuracy. In addition, the machine can determine the country of origin in 28.4 percent of the photos and the continent in 48 percent of them. <https://goo.gl/NMkaA6>

**Yahoo Releases CaffeOnSpark Deep Learning Software to Open Source Community:** Members of Yahoo!'s Big ML Team has announced the availability of the CaffeOnSpark deep-learning software to the open source community for further development. According to Yahoo!, CaffeOnSpark fortifies the Apache Spark open source cluster computing framework, advancing data classification algorithms' ability to use dataframes to mine predictions and models from user-generated data. "We believe that deep learning should be conducted in the same cluster along with existing data-processing pipelines to support feature engineering and traditional (non-deep) machine learning," the team reports. "We created CaffeOnSpark to allow deep-learning training and testing to be embedded into Spark applications." Yahoo! says CaffeOnSpark also removes unwanted data movement and enables the direct execution of deep learning on big data clusters, upgrading the speed and efficiency of such tasks. The software was recently applied to Yahoo!'s Flickr image search service to enhance image-recognition capabilities via training with Hadoop clusters. <http://goo.gl/Wq9CPV>

**Detecting Hidden Malicious Ads:** Northwestern University researchers, in an attempt to stop attacks from hidden malicious advertisements, have developed a dynamic system for Android-based devices that detects malicious ads and locates and identifies the parties that permitted them to reach the end user. They have tested the system on about 1 million apps in two months, and found although only about 0.1 percent of ads are malicious, that total is still quite large because about 2 billion people own smartphones worldwide. Ads that ask the user to download a program are the most dangerous, containing malicious software about 50 percent of the time, according to the researchers. The software electronically clicks the ads within apps and follows a chain of links to the final landing page, and then downloads that page's code and completes an analysis to determine if it is malicious or not. The software also uses machine-learning techniques to track the changing behaviours of malware as it attempts to elude detection. The researchers currently are testing 10 times more ads with the goal of developing a more efficient system. <http://goo.gl/zydIXN>

**30,000 robots now work at Amazon; competing systems emerging:** Amazon announced that at the end of September they had 30,000 Kiva robots at work in 13 fulfillment centers. "The wider use of robots at fulfillment centers has had a direct impact on productivity. It's a bit of an investment that has implications for a lot of elements of our cost structure, but we're happy with Kiva. It has been a great innovation for us, and we think it makes the warehouse jobs better, and we think it makes our warehouses more productive." <http://goo.gl/nR59t1>

**How to Set Up a WordPress.com User Account:** You may not know that WordPress has a hosted version of the software that you can use to run a website without the hassle of downloading and installing software; it's called WordPress.com. If you're just starting out as a blogger and don't want to spend money purchasing a domain name and hosting your site with a third-party web host, WordPress has a great solution for you. You can create a free blog with the hosted service offered at WordPress. To create your WordPress user account, follow these steps: <http://goo.gl/8HVvOU>

## Summary of Financial Assistance to SBs in 2016

Sl.No.	SB Name & Place	Amount of Support	Event Name & Date
1	Panimalar Engineering College, Chennai	5000.00	Technical Symposium on "Image Processing, Embedded and Communication Systems". 8 <sup>th</sup> - 9 <sup>th</sup> Jan 2016
2	Sri Ramakrishna Engineering College, Coimbatore	12500.00	National Level Paper / Project Contest – "TECHKSMOS 2016" & Workshop on MATLAB for Electrical & Electronics Engineers". 5 <sup>th</sup> Feb 2016
3	National Engineering College, Kovilpatti	5000.00	Two Day Hands on Training on "Internet of Things: Smart Objects & Services (IOT-SOS) 2016". 17 <sup>th</sup> -18 <sup>th</sup> Feb 2016
4.	Sri Krishna College of Engineering and Technology, Coimbatore	15000.00	National Level Technical Symposium on "KRISNECS 2K16". 29th Feb 2016
5.	Selvam College of Technology, Namakkal	7500.00	International Conference on "Electrical, Electronics, Information and Computational Applications". 2nd – 3rd Mar 2016
6.	Saveetha University, Chennai	5000.00	International Conference on "Human Computer Interactions (ICHCI'16)". 10th – 11th Mar 2016
7.	Kongu Engineering College, Erode	17500.00	National Level Technical Symposium – "AVANZARE V10.0". 17th – 18th Mar 2016
8.	Madras Institute of Technology, Chennai	7500.00	Fifth International Conference on "Recent Trends in Information Technology". 8th – 9th Apr 2016
9.	St. Peters College of Engineering & Technology, Chennai	7500.00	Two Days Workshop on "Software Defined Radio and Cognitive Radio Technologies". 21st – 22nd Apr 2016
10.	KLN College of Engineering, Madurai	12500.00	National Level Seminar on "Application of Power Electronics in Polymer Product Manufacturing". 16th - 17th May 2016

### Section Volunteers

IEEE Madras Section thanks the members who had applied for volunteer position in various committees of the Section. The Execom had approved the formation of committees and the committee chairs & vice-chairs were requested to select the volunteers from the list of those had applied for. As the no. of applicants were quite high, we could not accommodate all. The composition of various committees and the contact details of Execom members are available in a shared folder at

<https://drive.google.com/folderview?id=0B5jxEnDN1CofZEp1RGRpOHVad0E&usp=sharing>

As a matter of gesture, to all the volunteer applicants, IEEE Madras Section had extended a special discount of Rs. 300/= in the registration fee for the recently concluded two-day workshop on Graphic Design. We are happy to note many had availed this discount. We look forward to your continuous engagement with the Section in all the activities

## Announcements

### IET India Scholarship Award

The IET (Institution of Engineering and Technology), India instituted the annual IET Scholarship Awards in 2013 to underline the organisation's commitment to India's engineering community and to incentivise young people entering the engineering and technology profession. The IET India Scholarship will be given on merit-based selection criteria. The total scholarship amount is Rs.8,00,000/-.

The IET India Scholarship programme has been designed to reward and celebrate individual excellence and innovation among undergraduate engineering students. B.Tech students from AICTE/UGC-approved institutions from across the nation can apply for the scholarships across two categories - General and Women.

**Application Deadline: April 30, 2016.**

For more info pl. visit <http://scholarships.theiet.in>

### Current Digital Issues of IEEE Spectrum & IEEE Institute

#### IEEE Spectrum

To View in your browser, visit

<http://www.qmags.com/2FE1161B1640E7E013144D2F111629FCDE2FF146967.htm>

To download your Qmags PDF, visit

<http://www.qmags.com/2FE1171B1640E7E013144D2F111629FCDE2FF145D3E.htm>

#### The Institute

To View The Institute, visit

<http://www.qmags.com/OLHit.asp?pub=INS&upid=19747&S=ML&url=http://online.qmags.com/INS0316>

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### Become a IEEE CS Member

**NEW MEMBERS: JOIN TODAY AND GET THE REST OF THE YEAR FOR HALF THE PRICE - THAT'S 10 MONTHS FOR THE PRICE OF 6**

*Offer valid through 15 August 2016. This membership offer is available to new members and former members who have not held a membership in the last year.*

**Membership Dues:** Affiliate: US \$125 \$62.50 :: Add to IEEE membership: US \$56 \$28

Please visit <https://www.computer.org/web/membership/>

### The Richard E. Merwin Scholarship

The Richard E. Merwin Scholarship offers \$40,000 in student scholarships from \$1,000 and up to recognize and reward active student volunteer leaders in student branches or chapters who show promise in their academic and professional efforts. The selected winners of this award will have the opportunity to serve as IEEE Computer Society Student Ambassadors for the particular IEEE region to which they belong. Over a dozen scholarships of \$1,000 and up are available! **Application deadline is 30 April 2016.**

For details: <https://www.computer.org/web/students/merwin>

## IEEE Programming League - 2016

organised by  
IEEE India Council & IEEE Computer Society

What is IEEE Programming League?: It is a platform for Indian student members of IEEE to provide training to excel in programming competitions like IEEE Xtreme, ACM ICPC etc. The IEEE PL is a team competition. Current rules stipulate that each team to consist of three students who must be undergraduate university students from India.

Who?: A team up-to three enthusiast undergraduates with an inclusion of at-least one IEEE member per team. A college or university can form multiple teams.

Where?: It's an on-line event

Why?:

Fame - You can make code ballad for yourself.

An added surge to you Resume.

Goodies and Certificate - Each participating team gets a set of digital goodies bundle and a certificate

When?

Round 1: 9 th April 2016

Round 2: 23rd April 2016

**Last date to register: 3rd April 2016** :: For more details & registration, pl. visit <http://ieeeprogrammingleague.in/>  
For clarifications pl. contact: Siva Subramaniyam C N, Ambassador of IEEE PL 2.0, [mr.siva.1995@ieee.org](mailto:mr.siva.1995@ieee.org)

## Engineering Projects in Community Service (EPICS) in IEEE – Call for Proposals

The EPICS in IEEE program is now accepting applications. EPICS in IEEE awards grants to university student groups to work on socially innovative projects that may address local community-service needs such as access and abilities, education and outreach, environment, and human services. Projects must be submitted by an IEEE member and involve a non-profit organization partner. Collaboration with a local high school is also encouraged. Typical awards use IEEE funding for project related supplies (as opposed to personnel costs) with award amounts in the US\$5,000 to US\$10,000 range.

There is no deadline for applications. Applications are accepted throughout the year on a rolling basis. Apply today and help impact your community.

EPICS in IEEE: [http://www.ieee.org/education\\_careers/education/preuniversity/epics\\_high.html](http://www.ieee.org/education_careers/education/preuniversity/epics_high.html)

Application process: [http://www.ieee.org/education\\_careers/education/preuniversity/EPICSApplication.html](http://www.ieee.org/education_careers/education/preuniversity/EPICSApplication.html)

How to get involved: [http://www.ieee.org/education\\_careers/education/preuniversity/epics\\_for\\_sections.html](http://www.ieee.org/education_careers/education/preuniversity/epics_for_sections.html)

For additional details and to learn more about EPICS in IEEE pl. send an e-mail to [epics-high@ieee.org](mailto:epics-high@ieee.org)

## ACM – IEEE CS George Michael Memorial HPC Fellowship

The ACM – IEEE CS George Michael Memorial HPC Fellowship honors exceptional PhD students throughout the world whose research focus is on high-performance computing applications, networking, storage, or large-scale data analysis using the most powerful computers that are currently available.

Recipients receive a \$5,000 honorarium, travel and registration for SC16 (International Conference for High Performance Computing, Networking, Storage and Analysis) and recognition at the SC16 Awards Ceremony.

**Deadline: 1 May 2016.**

Apply now, <http://sc16.supercomputing.org/submitters/awards/acmieee-cs-george-michael-memorial-hpc-fellowship/>

## All IEEE Young Engineers' Humanitarian Challenge (AIYEHUM) 2016

All IEEE Young Engineers' Humanitarian Challenge (AIYEHUM), organised by the IEEE Region 10 (Asia-Pacific), is a project competition where young scientists and engineers identify a community problem, develop technological solutions to address them and eventually implement it with the support provided by the IEEE R10. Project Proposal: **Deadline: 15th April 2016.**

Topics: 1. Technology for Silver Age; 2. Assistive Technology; 3. Healthcare; 4. Frugal Technology; 5. Sustainability; 6. ICT in Education; 7. Intelligent Mobility; 8. Smart Nation; 9. Disaster Recovery; 10. Social Enterprise

For any queries, please feel free to contact: [aiyehum@ieee.org](mailto:aiyehum@ieee.org)

For more details visit <http://aiyehum.ieeer10.org/>

## 2016 EAB Awards

The IEEE Educational Activities Board (EAB) is currently seeking nominations for its prestigious annual awards, which recognize major contributions to engineering and technical education. The deadline for submitting a nomination is 2 May 2016:

- Meritorious Achievement Award in Accreditation Activities
- Meritorious Achievement Award in Continuing Education
- Meritorious Achievement Award in Informal Education
- Major Educational Innovation Award
- Pre-University Educator Award
- Meritorious Service Citation
- Standards Education Award
- Employer Professional Development Award
- Society/Council Professional Development Award
- Section Professional Development Award
- IEEE Life Members Graduate Study Fellowship in Electrical Engineering
- The Charles LeGeyt Fortescue Scholarship
- IEEE-HKN Outstanding Young Professional Award
- IEEE-HKN C. Holmes MacDonalld Outstanding Teacher Award
- IEEE-HKN Vladimir Karapetoff Outstanding Technical Achievement Award
- IEEE-HKN Distinguished Service Award

A description of each award and the applicable nomination forms can be found online at <http://www.ieee.org/eab-awards>.

**The submission deadline for nominations is 2 May 2016.**

If you have any questions or would like additional information, please email [eab-awards@ieee.org](mailto:eab-awards@ieee.org)

## The IEEE History Center e-newsletter

The IEEE History Center e-newsletter is available free to all persons interested in technological history -- whether engineers, scholars, researchers, hobbyists, or interested members of the public. The newsletter reports on the activities of the IEEE History Center and on new resources and projects in electrical and computer history. The newsletter is published three times each year by the IEEE History Center.

The March 2016 issue is the 100<sup>th</sup> issue and is available at [http://www.ieee.org/about/history\\_center/newsletter/ieee\\_history\\_center\\_newsletter\\_100.pdf](http://www.ieee.org/about/history_center/newsletter/ieee_history_center_newsletter_100.pdf)

## **IEEE Chennai Hub Congress-2016 (CHC-2016)**

Pl. find an announcement and the call for participation in the IEEE Chennai Hub Congress - CHC-2016 being held at JIT, Chennai during 8-9, Apr 2016. This will be the first Hub Congress in the year 2016. We encourage student members in and around Chennai to participate and get benefited while other region students are also welcome to register for participation.

With regards

HR Mohan, Chair, SAC, Madras Section, Vice Chair, IEEE Madras Section

### **CALL FOR PARTICIPATION**

Dear all,

Warm Greetings from the SB of JIT & IEEE Madras Section,

We are delighted to inform that IEEE Chennai Hub Congress-2016 (CHC-2016) is being hosted at Jeppiaar Institute of Technology (JIT) during 8-9, Apr 2016.

We extend our warm welcome to all the IEEE members.

The IEEE Chennai Hub Congress 2016 aims to provide immense opportunity for students to be a part of the meet that will provide an impetus to learn and assimilate knowledge from various sessions as well an opportunity to interact with the senior members and professionals who have already set milestones in their areas of interest and specialization.

This two-day congress will be packed with sessions to inspire all and create awareness on IEEE and how the membership in IEEE can be leveraged for advancement. Seize the opportunity to gain valuable exposure that you could ever get.

To Register : <http://goo.gl/forms/ZnskWAUgdb>

More Info at the website : <http://ewh.ieee.org/sb/madras/jit/chc16/>

FB Page at : <https://www.facebook.com/events/912555115532079/>

For any questions, please feel to contact the CHC-2016 team from JIT,

SUSHEEL S, Email: [susheel.s.2014@ieee.org](mailto:susheel.s.2014@ieee.org), Mobile: +918122292478

OR

JAMAL MOHAMED H, Email: [jamalmohamed.h.1995@ieee.org](mailto:jamalmohamed.h.1995@ieee.org), Mobile: +919629248689

### **Joining IEEE & Starting a Student Branch** (Valid from 1st Mar 2016)

From 1st March IEEE admits new members at 50% of the annual rate and the membership will last for 10 months till Dec 2016. This means by paying for 6 months, one can enjoy the membership benefits for 10 months. .

The IEEE professional membership rate now is USD 40.50/=. The student membership rate is USD 13.50/=.

Additionally, the students can take the combined membership in IEEE Computer society at additional fee of USD 4/=. This means, at USD 17.50/- a student becomes a member of IEEE & IEEE CS and also gets full access to the Digital Library of IEEE Computer Society.

There are about 39 technical societies in IEEE and one can choose any (depending on the interest) and become member by paying a nominal additional fee.

To start a student branch (SB), the institute should have 12-20 student members and a min of 3 professional members to act as counsellor, adviser and mentor.

For a detailed process pl. refer: <http://ieeecs-madras.managedbiz.com/guidelines/joining-ieee-starting-sb.pdf>

## FAQ -- IEEE Young Professionals

### Why IEEE Young Professionals?

IEEE Young Professionals is an international community of enthusiastic, dynamic, and innovative members and volunteers. IEEE is committed to helping young professionals evaluate their career goals, polish their professional image, and create the building blocks of a lifelong and diverse professional network. As a Young Professional member, you'll be presented with new resources, valuable opportunities and many discounts that will help you advance your career in the right direction. Through IEEE Young Professionals, you can find colleagues who share your vision and commitment—those who are moving technology forward today. IEEE Young Professionals enable you in building your professional network, shaping your career, identifying your mentor, strengthening your leadership skills, furthering your career, and implementing new ideas within your community.

### Benefits of IEEE Young Professionals.

- **Keeping Technically Current** - Your first few years after graduation can be challenging enough without the burden of keeping abreast of new and changing technologies. IEEE has the means for you to remain technically current through award-winning publications, technical societies and discounts on conferences.
- **Career Resources and Recognition** - Over the course of your career you will be faced with many new and exciting challenges. Let IEEE help with those transitions with various Career Resources.
- **Professional Networking** - Sharing ideas and information with others who share similar technical interests is vital to career success. Various professional networking tools at IEEE can help make these connections.
- **Continuing Education** - Access to on-line continuing education tools is vital to career success. These resources allow you to acquire new skills and advance your professional development.
- **Humanitarian Programs** - A large number of IEEE members take time to make a difference in the lives of individuals or entire communities. Volunteering is a rewarding way to develop interpersonal skills, create new professional relationships, and apply your expertise to help others.

Uncover IEEE member benefits that are most relevant to you. Use the Global Benefits finder to select your current career phase and country which will list the key IEEE member benefits that can help you accelerate your career plans and help you grow as a technology professional.

Global Benefits Finder: <http://bit.ly/1p9aX3q>

### Am I an IEEE Young Professional Member? How to become one?

Any IEEE Member who is within the 15 years of receipt of the first degree is eligible to be an IEEE Young Professional Member and would also have an option to participate beyond the fifteen-year time span.

If you are not a Young Professional Member, becoming an IEEE Young Professional (YP) member is just a few steps away! Here is a step-by-step guide to add the IEEE YP membership to your IEEE account. ([Click here](http://yp.ieee.org/how-to-add-young-professionals-membership-to-my-ieee-membership/) for more details -- <http://yp.ieee.org/how-to-add-young-professionals-membership-to-my-ieee-membership/>)

1. Sign in to your IEEE account by entering your email and the password.
2. Click on the 'Membership and Services' section.
3. Go to the 'Memberships and Subscriptions Catalog' section.
4. In the Search section on the left side of the page, click on the 'Special Interest Groups' under 'Browse by type' option.
5. Click on the 'IEEE Young Professionals'. You will be then directed to the page where you can add the YP membership to your account.
6. Select the option to add the YP membership and click the button 'Add to Cart'. Congratulations! Now you are officially an IEEE Young Professionals member.

### **What do the IEEE Young Professionals do?**

IEEE Young Professionals through the Affinity Groups are involved in numerous activities ranging from Technical Workshops, Entrepreneurship, Seminars, Community Engagement Programs, Research Projects, Student Transition and Elevation Programs, Volunteers Training, Industrial visit etc.

### **How do I volunteer for IEEE Young Professionals?**

If you have the passion to volunteer and support the Young Professionals members spread across your section, feel free to write an email to [ieemas@gmail.com](mailto:ieemas@gmail.com) with subject "IEEE Madras Young Professionals – Volunteer - Name". Specify your previous volunteering experience along with the area you would like to contribute as a Young Professional. IEEE Madras Young Professionals Committee will reach out to you based on your volunteering interest.

### **How IEEE Student Branches Contribute to IEEE Young Professionals?**

IEEE Student Branch can invite all graduating student members and facilitate them with information about transition from IEEE Student member to IEEE Young professional Member by introducing them with opportunities and benefits of IEEE after graduation. In addition the student branches can also invite their graduate students who are active contributors of IEEE to share their career and volunteering experience with graduating student members. Any graduating student member can reach out to senior IEEE members who are with similar field of interest to support and serve as career mentor.

### **IEEE MGA Young Professionals Achievement Award**

IEEE Young Professional Achievement award is to recognize those substantive projects or achievements of a relatively short nature (one to three years), but which have left an undeniable imprint on the fabric of IEEE Young Professionals operations. The award will be based on a selection that recognizes individuals or teams involved with Young Professionals activities who are recognized for singular achievement in the development and completion of a project(s) or activity(ies) which are directed to the fulfillment of one or more of the Young Professionals goals and/or objectives.

The accomplishments of the candidate should be of "significant performance" and should have made a distinguishing contribution to Young Professionals. The focus should be on volunteering for IEEE, MGA, or its organizational units, not on professional achievement.

More details visit: <http://yp.ieee.org/volunteers/awards/mga-young-professionals-achievement-award/>

Nomination Deadline: 15<sup>th</sup> October 2015

### **Young Professional Updates:**

#### **Global Young Professionals**

Facebook Page: <https://www.facebook.com/ieeeyp>

Website: <http://yp.ieee.org/>

IMPACT Blog - <http://yp.ieee.org/impact/>

IEEE Collabratec: <https://ieee-collabratec.ieee.org/app/community/20/activities>

#### **R10 Young Professionals**

Facebook Page: <https://www.facebook.com/ieeer10yp>

Website: [www.yp.ieeer10.org](http://www.yp.ieeer10.org)

**One machine can do the work of fifty ordinary men.  
No machine can do the work of one extraordinary man.**  
– Elbert Hubbard

### Get involved in IEEE Future Directions initiatives

IEEE Future Directions is your resource to emerging technologies within IEEE. The team has identified specific technologies as primary focus areas and has established them as formal initiatives to engage IEEE and technologists globally. For each initiative, you can find a wealth of knowledge, resources, and opportunities in which to participate. Visit each featured portal for access to upcoming conferences, news articles, technical papers, related standards, professional organizations, and academic programs. To get involved in the initiatives and to stay informed, join the free technical communities available. Pl. visit <http://www.ieee.org/about/technologies/index.html>

### Proposed amendment to the IEEE Constitution on 2016 ballot

At its November 2015 meeting, the IEEE Board of Directors endorsed revisions to the IEEE Constitution, which will be sent to the IEEE membership for approval this year in the form of one amendment. Read more at <http://theinstitute.ieee.org/briefings/business/-proposed-amendment-to-the-ieee-constitution-on-2016-ballot>

### Free E-Book from IEEE-UAS

IEEE-USA offers the free E-Book "Shaping an Engineering Career – Book 1: Responding to Career Challenges-A Personal Journey," by author Gerard H. (Gus) Gaynor from 1<sup>st</sup> Mar till 15<sup>th</sup> Apr 2016. Pl. visit <http://shop.ieeeusa.org/usashop/product/careers/75857>

### IEEE Madras Section membership status as on 1<sup>st</sup> Mar 2016

Affiliate	12
Associate Member	20
Fellow	4
Graduate Student Member	635
Life Member	4
Life Senior	11
Member	1076
Senior Member	129
Student Member	2505
Total	4396

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### IEEE MAS LINK

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#### *Editorial Team*

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