IEEE-MAS Link
.... Newsletter of **IEEE MADRAS SECTION**

Message from Chairman

Dear Members,

Welcome to the new members and executive committees of the various society chapters and affinity groups.

We had the new Executive committee take over during the IEEE Annual day function. It was combined with the Student Branch Officers Meet, which was a grand success. Many new faces were introduced during the meeting. The interactive sessions gave lot of insight for those who are new to IEEE activities. Queries from them were clarified by the experienced members and lot of guidance was provided to as to how to start Student Branch, nurture and make it sustainable.

In the Annual Meeting followed the SB Officers Meet, Dr. Sakthivel, Secretary cum Treasurer presented the detailed report on the activities of the Section during the year 2016 and a summary of the un-audited financial status of the Section. Based on the activities conducted and many other parameters, the Student Branches and Society Chapters & Affinity Groups were awarded certificates and cash awards in order to motivate them and encourage others to follow up and come to the top level. While some college management provides adequate support, some colleges lack support. Branch councilors should explain the benefits of IEEE to their respective managements. While quantity is important, quality is of more importance. We should compare with branches in developed countries and try to inculcate the standards being followed there so that students get benefitted. The Section also recognized the SB institutions who have hosted the Section events and supported the Section in organizing events at different parts of the state.

The IEEE Madras sponsored National Conference on Disaster Mitigation, Responsiveness & Management was held during 4th and 5th February at SSN College successfully. There were many invited talks apart from paper presentations. I suggest many such thematic and socially relevant conferences or workshops are to be organized by the colleges along with the events focusing on current technological developments alone..

I wish to inform that IEEE Madras is coming out with standard guidelines and norms for approving the technical and financial support / sponsorship to conferences being oraganised by various institutions having the Student Branches of the Madras Section. There are concerns on plagiarism and quality of conferences, particularly the International Conferences being organized by our SB institutions. We are confident that the proposed guidelines and norms will improve the quality bring in higher level of standards apart from the increased involvement of professional and senior members from the Section. I hope all of you will go through the same before applying for conference approvals.

Till next time

Yours voluntarily
M A Atmanand

Message from the Editors

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H.R. Mohan
Chief Editor
hrmohan.ieee@gmail.com

Dear Readers,

IEEE MAS Link is happy to present the second issue of IEEE MAS LINK in 2017. Professional and technical activities have started picking up after resuming of academic session in most colleges.

We are pleased to share that IEEE celebrated a milestone in open access publishing. IEEE *Access*, the award-winning multidisciplinary open access journal published its 1,000[th] article in the IEEE *Xplore* Digital Library. Since its launch in 2013, IEEE *Access*, which incorporates articles from all IEEE fields of interest and emphasizes applications-oriented and interdisciplinary articles, has grown immensely. In late 2015 it was accepted into the Thomson Reuters Web of Science and has won numerous awards. This is a welcome initiative from IEEE towards a more open access intellectual property regime and hope others make a start towards this.

We have included reports on activities held in 23 SBs which include: Cape Institute of Technology, Tirunelveli ; Dr. N. G. P. Institute of Technology, Coimbatore; IFET College of Engineering, Villupuram; Jeppiaar Institute of Technology, Chennai; Karpagam University, Coimbatore; Kings College of Engineering, Pudukkottai; Kongu Engineering College, Erode; K. S. Rangasamy College of Technology, Tiruchengode; National Engineering College, Kovilpatti; Rajalakshmi Engineering College, Chennai; Rajalakshmi Institute of Technology, Chennai; R.M.K. college of Engineering and Technology, Chennai ;S.A. Engineering College, Chennai; Sri Sai Ram Engineering College, Chennai; Sathyabama University, Chennai ; Sri Eshwar College of Engineering, Coimbatore; St. Joseph's Institute of Technology, Chennai ;St. Peter's College of Engineering and Technology, Chennai; SSN College of Engineering, Kalavakkam; St. Xavier's Catholic College of Engineering, Nagercoil; Thiagarajar College of Engineering, Madurai; Vetri Vinayaha College of Engineering and Technology, Tiruchirappalli; St. Joseph's College of Engineering, Chennai.

The newsletter also carries the highlights of the IEEE MAS SB Officers Meet and IEEE MAS Annual Meeting and awards Presentation for the year 2016. Briefs report on IEEE Madras Section Nanotechnology Council Chapter is also included..

Under "Forthcoming Events" various events technically sponsored by Madras Section and Madras Section Societies and some other events which will be of interest to our members are presented. The details of financial assistance extended by IEEE Madras Section to SBs to organize events are provided. We draw your attention to the various announcements and request you to act on them and get benefited. We are sure that members will find our regular Information Resources column useful.

We wish to inform the SB councilors to promote membership in their SBs with the half yearly membership enrolment will become effective from March which will allow the new members to enjoy the benefits for 10 months just by paying the dues for six months.

We look for contributions from all to make the MAS LINK a sought after publication from the Section. We regret to inform that we still get reports for publishing not following the guidelines and even after communicating to the senders, we do not get any response. Pl. note such reports are not included in the newsletter. To avoid such occurrences, pl. adhere to the guidelines at https://goo.gl/bYB44p

The MAS LINK issues are archived in a shared folder at
https://drive.google.com/folderview?id=0B5jxEnDN1CofWlkxejBNei1vOXc&usp=sharing

Cape Institute of Technology, Tirunelveli

CHAKRAVYUHA '17

IEEE SB organized CHAKRAVYUHA '17 – a project contest on 25th Jan 2017. 13 teams participated in the contest. S. Arihara Suthan and team developed a smart notice board model and was declared the winner. The event was coordinated by R. Solomon Roach and L. Arivazhagan, AP/ECE.

Report by: Mr. Arivazhagan.L,
arivulaxmanan87@gmail.com

Dr. N. G. P. Institute of Technology, Coimbatore

Industrial visit to Kalapatti substation

Lecture on "Energy Optimization Systems"

IEEE SB and EEE Dept. organized an industrial visit to Kalapatti Substation on 3rd Feb 2017. Class coordinators of 2nd year Electrical Engineering, Mr. S. S. Karthikeyan and Dr. V. Ranganayaki accompanied 55 students for the visit.

IEEE SB organized a lecture programme on Energy Optimization Systems by Mr. Gunther Braus, President/CEO Dibalog GmbH, Germany on 11th Jan 2017. 100 students attended the lecture. Dr. K. Porkumaran, Principal and Dr. S. Jaganathan, HOD/EEE addressed the gathering.

Report by: Dr. K. Porkumaran ,porkumaran@gmail.com

IFET College of Engineering, Villupuram

Seminar on Smart Metering

Guest Lecture on Wind Energy Estimation

IEEE SB and EEE Dept. Association organized a seminar on "Smart Metering" by Er. J. Balamurugan, Assistant Engineer/TNEB Chennai on 18th Jan 2017.

A Guest Lecture on Wind Energy Estimation Using WINDSIM by Mr. T. F. Jayasurya, Co untry Manager, India for Windsim, was organized by EEE Dept. Association on 27th Jan 2017.

Jeppiaar Institute of Technology, Chennai

Multimedia Presentation

IEEE SB organized an event "Multimedia presentation on the theme, recent trends in technology" on 10th Jan 2017. The event was judged by Dr. Senthil Magesh P.C., HOD/CSE and Mr. R. Annamalai, HOD/IT. The event was organized by Ms. Sonali. B.

Report by: Ms. Nageshwari.P, ieeesbc@jeppiaarinstitute.org

Karpagam University, Coimbatore

Two days hands on training on "Internet of Things using Arduino"

IEEE SB and EEE Dept. organized two-day hands-on training on "Internet of Things using Arduino" by Mr. R. Vijayakumar, AP/EEE, SNS College of Technology, Coimbatore on 21st and 22nd Dec 2016.

Report by: Ms. Bhavi gold, bhavi20124u@gmail.com

Kings College of Engineering, Pudukkottai

Workshop on Soft Computing

IEEE SB and R&D Section organized a one day workshop on "Soft Computing" on 28th Jan 2017 technically sponsored by Computational Intelligence Society, Madras Section. Dr. S. Sivakumar, Vice Principal, Kings College of Engineering delivered a lecture on "Genetic Algorithm and its Applications". Dr. R. Amirtharajan, delivered a lecture on "Soft Computing Techniques for Information Security". Mrs. N. Hemavathi, AP/EEE delivered a lecture on "Fuzzy Logic & its Applications".

Report by: Dr. J. Arputha Vijaya Selvi, vijayas_02@yahoo.co.in

Knowledge Institute of Technology, Salem

Spectrum Analysis

IEEE SB organized Spectrum Analysis on the topic, Humanoid Submarine Robot, Sensor System offers Real-Time Control of Drug Levels in Blood, & Why the Automotive Future Will Be Dominated by Fuel Cells on 23rd & 25th Jan 2017. Mr. R. Kathiresan, Mr. M. Bharanidharan, Mrs. C. Vanitha, IEEE Faculty In-charges led the discussion.

Talk for a minute

IEEE SB organized "Talk for a minute" on 6th Feb 2017 with Ms.B.Gowsitha as chairperson.

Report by: Dr. N. Santhiyakumari, hod.ece@kiot.ac.in

Kongu Engineering College, Erode

SPAVe

IEEE SB and WIE organized SPAVe, an inter-departmental technical symposium on 8th Feb 2017. Various events included Paper Presento, Robo Soccer, Line Follower, Brain Blitz, Project Present-O and C-Contest. Prof.K. Narayanan, IEEE SBC distributed the prizes for the events in which Ms. D. Karthiga & Mr. K. Srinath played an active role.

INTUIT

IEEE SB and WIE conducted INTUIT, a technical event on 4th Feb 2017. Various events included Quiz, C Contest, Circutrix and Spec Talk on following topics; Four fold solar module, Automatic solar grass cutter, Mobile charging using thermoelectric generator & Smart control of agriculture motor using embedded starter.

WIESHUIS

WIESHUIS, a societal awareness program was conducted by WIE on 4th Feb 2017 at ILAYA BHARATHAM orphanage home, Erode with 20 children. Events organized included drawing competition for the kinder garden students and poetry & craft competition for all other students.

Report by: K.Sathiya ,sathiya.k.in@ieee.org

K. S. Rangasamy College of Technology, Tiruchengode

Lecture on Leprosy Awareness Programme: IEEE EMBS SBC in conjunction with Biotechnology department conducted a lecture by Dr. J. Philip Robison, Head/Biotech on 28th Jan 2017 to create awareness on leprosy.

Lecture on Startup India: IEEE EMBS SBC organized a lecture program on "Startup India" by Mr. T. Ramesh, AP/Management on 2nd Feb 2017. Dr. J. Philip Robinson, Head/Biotechnology and Dr. P. Ponmurugan, Secretary, IEEE-EMBS SBC graced the occasion.

Workshop on MATLAB

IEEE SB organized a one-day workshop on MATLAB on 10th Feb 2017 by Dr. M. Nirmala, AP/ECE. Dr. K. Thyagarajah, Principal; Dr. K. B. Jayanthi, HOD/ECE; Dr. C. Rajasekaran, SBC and Mr. K. Sivasubramaniam, AP/ECE addressed the workshop.

Workshop on VLSI-FPGA

IEEE SB organized a one-day workshop on VLSI-FPGA on 10th Feb 2017 by Mr. V. Prabakar and Ms. R. Ramya, both AP/ECE.

Report by: Dr. C. Rajasekaran, raja7ksrct@gmail.com

Rajalakshmi Engineering College, Chennai

Workshop on PCB Based Product Design

IEEE SB and ECE Dept. organized an workshop "PCB Based Product Design" by Mr. S. Karunakaran, Precision Tools Pvt Ltd, Chennai on 27th & 28th Dec, 2016. Dr. M. Palanivelan, IEEE SBC and Dr. L. Bhaghyalakshmi, Prof also spoke.

Lecture on Nanophotonics and its Applications

IEEE SB and ECE Dept. organized a Lecture on Nanophotonics and its Applications by Dr. M. Arivanandan, Assoc Prof, Anna University, Chennai on 25th Jan 2017.

Report by: Dr. Palanivelan M, palanivelan.m@rajalakshmi.edu.in

MIT developing human brain-controlled robots: MIT researchers are developing a feedback system that enables people to correct robot mistakes using just brain signals. Using EEG monitor data, that records brain activity, the system detects if a person notices an error as a robot performs an object-sorting task. The system could be developed for driverless cars, to supervise factory robots, and aid speech-impaired people, researchers said.

Airbus concept car can be lifted by drone to avoid traffic: Airbus has unveiled a self-driving electric transportation concept called 'Pop.Up' which uses drones to airlift car pods to avoid traffic. An Airbus platform allows passengers to book their rides and sends them self-driving cars. The 8.5-foot-long cars are carried through the air by a drone and dropped to the destination to avoid traffic.

Microsoft, Google hike bug bounty rewards to ₹20 lakh: Microsoft has offered the amount for two months specifically or vulnerabilities found in its Microsoft Office 365 and Microsoft Exchange Online portals. Google has permanently hiked rewards for spotting flaws that could give hackers unrestricted database access.

National Engineering College, Kovilpatti

SPARK TECH

IEEE CS SBC organized a SPARK TECH on 29th Dec 2016. G. Revathi, A. Arumuga Manisri, A. Sornam of second year CSE won the first second & third prize respectively.

Motivational talk on placement awareness

On behalf of IEEE ITS Madras Chapter, a motivational talk on "Placement Awareness" was organized on 9th Jan 2017. 84 students participated and benefitted.

International conference on Wireless Smart System Technologies (WiSST 2017)

IEEE SB was an active participant in organizing the International conference on Wireless Smart System Technologies (WiSST 2017) from 5th Jan to 7th Jan 2017 by ECE Dept.. IEEE Information Theory Society Madras Chapter technically sponsored the conference.

Workshop for Business Intelligence And It's Tools

IEEE CS SBC organized a one-day workshop on "Business Intelligence and its tools" by Mr. S .Surender and Mr. M. Santhosh Kumar, both BI Analyst, Visual BI Solutions, Chennai on 12th Jan 2017. 100 students participated and benefited.

Report by: Dr.B.Paramasivan, hodcse@nec.edu.in

Rajalakshmi Institute of Technology, Chennai

Quiz

IEEE SB organized an Intradepartmental technical quiz named Concurzo'17 on 25th Jan 2017. Dr. G. R. Suresh, Prof/ECE motivated the student participants.

Two Days Workshop on Internet of Things (IoT) using IBM-BLUEMIX & ESP 8266

Department of ECE and IEEE SB organized two-day workshop on Internet of Things (IoT) using IBM-BLUEMIX & ESP 8266 by Mr. Shabarinath Premlal, Founder, ResPro Labs, Chennai on 27th and 28th Jan 2017. Mr. Raghavendra Rao, CS Division Chairman, Dr. K Raghuveer, Head/ISE and Dr. H D Phaneendra, TEQIP Coordinator also spoke. The programme was coordinated by Dr. R. Rajeswari and Mr. K. Siva Kumar, AP.

Report by: Dr.R.Rajeswari, rajimaniphd@gmail.com

R.M.K. college of Engineering and Technology, Chennai

Workshop on Humanoid Robot

IEEE SB and Dept. of ECE organized a one-day workshop on 'Humanoid Robot' by Mr. R. Purushothaman, MD, EPR Labs, Chennai on 4th Jan 2017. 62 students participated and benefited.

Industrial visit

IEEE SB organized a one-day Industrial visit to Sansbound Networking School & Tamilnadu Science & Technology Centre, Chennai on 4th Jan 2017.

Lecture on Clinical Engineering

IEEE SB organized a lecture on "Clinical Engineering" by Mr. S. Saravanan, Xerion Labs, Chennai on 6th Jan 2017.

One day Seminar on Design of smart systems using IoT technologies

IEEE SB organized a seminar on "Design of smart systems using IoT technologies" by Mr. S. Srinivasan Thanukrishnan, CEO, Glosys Technology Solutions Pvt Ltd., Chennai on 6th Jan 2017. 200 students attended the seminar.

Lecture on Integrated Circuits

IEEE SB and Dept. of ECE organized a lecture on "Integrated Circuits" by Mr. Tamil Selvan, Senior Engineer, Ericson India on 25th Jan 2017.

One day Event on Smart India Hackathon

On Jan 29th 2017, IEEE SB organized the "Smart India Hackathon" event with 36 participants.

Report by: Ramachandran R, ramachandranece@rmkcet.ac.in

S.A. Engineering College, Chennai

Technical Talk on about Robotics

IEEE SB and Dept. of EEE organized a technical talk by Mr. G. Udhayakumar, MD, UKS Technologies, Chennai, on "Robotics" on 10th Jan 2017. 120 students attended the programme. Dr. S. Priya, HOD/EEE also spoke.

Lecture on Thermal Power Station

IEEE SB and Dept. of EEE organized a lecture on "Thermal Power Station" by Mr. A. Arumugam, Chief Engineer, TNEB, Chennai on 12th Jan 2017. 120 students attended the programme.

Outreach Program – School Visits

IEEE SB and WIE AG conducted an outreach program at Nappinai Matriculation School, Chrompet and Government High School, Perunkalathur on 30th Jan 2017. 30 children were trained on assembling.

Lecture on Recent Trends in Communication Engineering

IEEE SB and Dept. of EEE organized a lecture on "Recent Trends in Communication Engineering" on 3rd Feb 2017. 115 students attended the lecture.

Report by: R.Mahendran, mahendranr@saec.ac.in

Sri Sai Ram Engineering College, Chennai

Workshop on Testing and Commissioning of Electrical Equipment in Substation

IEEE PES SBC organized a one-week training program from 2nd to 7th Jan 2017 on "Testing and Commissioning of Electrical Equipment in Substation". A MoU was also signed between the college and VOLTECH Engineers, Pvt Ltd, Chennai for further training in the presence of Principal Dr. C. V. Jayakumar; Prof. A. L. Kumarppan, HOD/EEE; Prof. P. Sharmila; Prof. P .Shanmugapriya and Mr. M. Babu, Executive Vice President, VOLTECH.

Technical Lecture on Impact of Transients on Power System and its Control Techniques

IEEE PES SBC organized a technical lecture on "Impact of Transients on Power system and its Control Techniques" by Mr. S. Selvakumar, Application Manager, ABB Global India Industries Ltd, Chennai on 7th Feb 2017. 120 Students benefitted from the lecture.

Report by: Shreyas Ramachandran.S, shreyas.s.1996@ieee.org

Sathyabama University, Chennai

Lecture on Remote Sensing and Sensors

IEEE SB has started a Special Lecture Series for IEEE student members. On 8th Feb 2017, the first lecture in the series, "Remote Sensing and Sensors" was delivered Dr. V. E. Nethaji Mariyappan, Scientist-F, ISRO-Satybhama Centre for Remote Sensing & Geoinformatics.

Report by: Godwin Premi, msgodwinpremi@gmail.com

Sri Eshwar College of Engineering, Coimbatore

ICACCS 2017 - Advanced Computing and Communication Systems

IEEE SB provided support for 4th International Conference "ICACCS 2017 - Advanced Computing and Communication Systems" on 6th and 7th Jan 2017 supported by IEEE Madras Section. The conference was inaugurated by Dr. Lakshmi Narasimhan, Special Advisor, University of Botswana in the presence of Mr. H. R. Mohan, Vice Chairman, IEEE Madras Section. Dr. Jegadeesh Prakash, Professor, University of Botswana delivered the keynote address. Dr. Sudha Mohanram, Principal; Dr. G. Karuppusami, Dean and Dr. N. Saravana Selvam, HOD/CSE also addressed the participants. Out of 605 papers received, 410 papers were selected and presented in multiple parallel sessions. .

Report by: Dr.Selvan.C, dr.selvan.c@gmail.com

St. Joseph's Institute of Technology, Chennai

Demonetization- Debate

IEEE SB organized a debate on demonetization on 9th Jan 2017. The prize winners were Subaash R, Vijay M, Bhuvanesh Kumar P and Srinivasan R. The best speaker award was won by Sivagami B

Report by: Dr.D.Kirubakaran, kirubad@gmail.com

St. Peter's College of Engineering and Technology, Chennai

Invited talk on Communication Skill for Engineers

IEEE SB and IETE Student Forum jointly organized an invited talk by Dr. K. Mathuramani, Head/English on 1st Feb 2017. Ms. K. Bhubaneswari, SB vice-chair also spoke during the event.

Report by: Dr.V.Amudha, v.amudha.in@ieee.org

SSN College of Engineering, Kalavakkam

National conference on Disaster Mitigation, Responsiveness and Management

IEEE SB provided support for the two-day national conference on Disaster Mitigation, Responsiveness and Management on the 3rd and 4th of Feb 2017 organized by the Dept. of Civil Engineering and supported by IEEE Madras Section. The conference was inaugurated by Dr. B. Venkatraman, Director, Health, Safety and Environment Group, IGCAR, Kalpakkam and Dr. M. A. Atmanand, Former Director & Scientist-G, National Institute of Ocean Technology, Chennai & Chair, IEEE Madras Section.

Dr. S. Salivahanan, Principal and Dr. S. Ramanagopal, conference chair addressed the conference. Eminent speakers at the conf. included:

- Mr. M. K. Pathak, Scientist-E, Research Development Establishment (Engg.), DRDO, Pune
- Dr. P. Mukhopadhyay and Dr. Kaustav Chakravarty, both Scientist-E, Indian Institute of Tropical Meteorology, Pune
- Dr. A. Boominathan and Dr. Goudappa Dodagoudar, both Prof/Civil., IITM, Chennai
- Dr. Saswati Mukerjee, Head, DIST, CEG, Anna University
- Dr. R. Venkatesan, Group Head - Ocean Observation Systems, NIOT, Chennai
- Mr. G. Padmanaban, Senior Manager, Communication & Telecom Infra, L&T Construction, Chennai
- Mr. Vinoj P Joseph, Assistant Commandant, NDRF, Arakkonam
- Dr. S. Mohan, Prof., Environmental & Water Resources Engg. Division, IITM, Chennai
- Dr. G. P. Ganapathy, Director, Center for Disaster Mitigation & Management, VIT University, Vellore

Report by: Dr. T. Sree Sharmila, sreesharmilat@ssn.edu.in

St. Xavier's Catholic College of Engineering, Nagercoil

Technical Gathering

IEEE EduSoc SBC organized a technical gathering on 24th Jan 2017. Ms. R. Ankayarkanni, Vice-Chair, WIE shared her experiences at the 'Workshop on Globalizing Electromagnetic Education' held at Bangalore. Prof. J. Bright Jose, IEEE SBC; Ms. Christlin Darfini of 2nd Year, EEE and Mr. Jeffry Jacob, Vice-Chair, Chairman, EduSoc also addressed the gathering.

Technical Gathering

IEEE SBC organized a technical gathering on 31st Jan 2017. Mr. J.G. Benny Jackson, Treasurer, EduSoc gave a motivational talk and Mr. R. Dan Francis of 2nd Year, ECE spoke on Google Search Engine for the meeting.

Report by: M. Ivana Bhagya, ivanabhagya@gmail.com

Thiagarajar College of Engineering, Madurai

CODER JACK

IEEE SB organized CODER JACK, programming competition on 13th Jan, 2017.

Report by: K Kalyani, k_kalyani@tce.edu

Vetri Vinayaha College of Engineering and Technology, Tiruchirappalli.

Inauguration of IEEE SB and Product Safety Engineering Society

IEEE SB and IEEE Product Safety Engineering Society (PSES) chapter were inaugurated by Dr. V. Jayaprakasan, Chairman, IEEE PSES Madras Chapter on 4th Feb 2017. The guest of honor was Dr. S. Vijayakumar, Secretary, IEEE PSES Madras Chapter. Mr. S. Arumugam, IEEE SBC; Dr. M. Karthikeyan, Principal; Prof. R. Vasanthi, Dean-Academics and Mr. P. Arulkumar, Head/EEE also addressed the gathering.

Report by: Ms.S.Arumugam, hodmech.vvcet@gmail.com

Scientists store movie and entire operating system on DNA: Columbia University scientists managed to store a full computer operating system and a short film among four other files on DNA molecules and were able to retrieve them error-free. Scientists said a single gram of DNA could pack over 215 million GB of data for thousands of years by converting the files into genetic code stored in the DNA.

St. Joseph's College of Engineering, Chennai

Seminar on Awareness of Embedded System in Internet of Things (IOT)

Guest lecture

A seminar on Awareness of Embedded System in Internet of Things (IOT) was organized by Control System Society Chapter of EIE Dept. on 9th Jan 2017. Mr. M. E .Rajamanikam, Neymar India was the resource person at the seminar. .

Dr. V. Jagadeeshkumar, Dean Academic Courses, IIT, Madras delivered a guest lecture on 30th Jan 2017. The lecture focused on how to identify problems so as to find innovative solutions and accomplish quality research work.

Report by: Mr.Uthayakumar G.S., guthayakumar@outlook.com

IEEE Madras Section Nanotechnology Council Chapter

Workshop on Fuel Cells

The IEEE Madras Section Nanotechnology Council Chapter in association with CECRI India organized a workshop on 24th Dec 2016.

The distinguished speakers included:

- Dr. Akhila Kumar Sahu, Scientist, CSIR Chennai
- Dr. Ramanujam Kothandaraman, Assoc Prof/Chemistry, IIT Madras
- Dr. Ranjit Bauri, Assoc Prof/ Metallurgical and Materials Engineering, IIT Madras
- Dr. Santoshkumar D. Bhat, Senior Scientist, CSIR-Central Electrochemical Research Institute, Chennai

Dr. R. Devanathan IEEE MS NTC-Chair; Mr. E. Terence, Secretary and Dr. V. V. Giridhar of CECRI also addressed the workshop.

Report by: E Terence, eterence@hindustanuniv.ac.in

World's smallest mobile has one-inch screen, weighs 32 grams: The world's smallest and lightest mobile phone 'Phone Strap 2 WX06A' was announced by Japanese company Willcom on March 5, 2013. It measures 32 x 70 x 10.7 mm, features a 1-inch screen and weighs only 32 grams. The mobile phone comes with a folding antenna and allows email exchange, text messaging, and talk time of up to two hours

University of California fires entire IT team to save ₹200cr and outsources the work to HCL India

IEEE Madras Section Student Branch Officers Meet – 2017

The IEEE Madras Section Student Branch (SB) Officers Meet -2017 was organised on 5th Feb 2017 at the TAG Auditorium, Anna University Campus. About 100 participants comprising of SB Counsellors and SB Officer Bearers from about 70 student branches across the state actively participated in the meet and benefited.

The meet started with the IEEE code of ethics read by Mr. Suriya Thilipan, Section Student Representative. Mr. H.R. Mohan, Chair, Student Activities welcome the gathering and stated that the meet is being organised in the beginning of the year to facilitate the SB officers to get familiarized with the opportunities well in advance and make use of the same and benefited. Further, he stated that combining with the Annual Meeting & Awards Presentation event of the Section will also facilitate the SBs to receive their awards in person. Dr. M.A. Atmanand , Chair, IEEE MAS, in his address, urged the members to participate in various projects, competitions and funding initiatives supported by R10 and HQ and get global recognition. He also stressed the need for the SBs to be active in the context of around 150 SBs been identified (by a sub committee headed by Dr. S. Elangovan.) as inactive and not yet revamped and being recommended to R10 for their closure for not meeting the requirements. Then the programme started with the self-introduction session in which the participants introduced briefly about their SBs and the spelt out their expectations from this meet.

The various sessions of the meet included the following:

- Hands-on session on drafting an annual action plan by Mr. A. Aravindhan
- Highlights on competition & awards by Mr. A. Aravindhan
- Newsletter Reporting & Issues by Mr. M. Arun & Mr. H. R. Mohan
- Websites for SBs using WordPress by Mr B. Ashvanth
- Publishing SB activities on the web using Word and gDrive by Mr. H.R. Mohan
- Tools for Volunteers by Mr. Prasanth Mohan
- India Strategic Initiatives by Mr. Nivas Ravichandran
- IEEE USA Perspective. Innovation & Creativity by Mr. R. Sampath, CEO & MD, BeWo
- Benefits from the Section & India Council by Mr. H.R. Mohan
- SB Funding Opportunities from other IEEE sources by Dr. S. Elangovan
- Highlights on Young Professionals Affinity Group by Mr. Nivas Ravichandran
- Presentations by Select SBs (BIT, Cape Inst, KIOT, KLNCE, Panimalar, SJCE, SSNCE and SXCCE) on their activities and best practices
- Presentations by chairs of COMSOC, CIS and Mr. Mohan on Society Chapters.

In the valedictory and the open discussions session, the queries raised by the SBs in the survey conducted by the Section and during the session were clarified by the OBs of IEEE Madras Section. The participation certificates were presented to all the participants and the meet ended with a group photo session.

The participants had ample time to interact, network with other SB officers and the IEEE Madras Section Office Bearer, Execom members and society and affinity group chairs and explore various avenues for organising events.

This IEEE MAS SB officers' meet was organized by Mr. H.R. Mohan, Chair, SAC with the support of Dr. P. Sakthivel, Secretary cum Treasurer, IEEE MAS and a group of student volunteers with the funding from IEEE Madras Section.   All the presentations made during the meet and few select photos are shared in the gDrive of the IEEE MAS Events at https://goo.gl/3nOLFs

IEEE Madras Section Annual Meet and Awards Presentation for the year 2016

The IEEE Madras Section Auunal Meet and Awards Presentation for the year 2016 was held on 5th Feb 2016 at the TAG Auditorium, Anna University. About 125 members attended the Annual Meeting.

Dr. M.A. Atmanand, Section Chair, welcomed the gathering and spoke and provided an overview and the highlights of the section activities during the year 2016. He thanked all the members and the execom for extending their support for successful conduct of the section activities.

Dr. P. Sakthivel, Secretary, presented the Secretary's Report for the year 2016, explaining about the activities of the section, societies & affinity groups, student branches and the membership status and developmental initiatives etc. The report was approved by the members.

Dr. P. Sakthivel, Treasurer, also presented the Management Accounts for the year 2016 which was also approved by the general body. The members were also informed that the audited accounts will be finalized as at March 31st 2017 and will be presented to the members during the Annual General Body Meeting subsequently.

Mr. H.R. Mohan, Vice Chairman, then announced and presented the cash awards and certificate of appreciation to the best performing student branches and the student branches with largest numbers of members and to the student branches hosting the sections events such as FDPs, Xtreme Program and Student Paper Contest, Xtreme award winners, SBs with large no. of technical societies and best performing section society chapters and affinity groups.

Mr. C. R. Sasi, Chair, nomination committee presented the report on the execom slate of the Madras Section for the year 2017 and inducted the new Execom with Dr. M.A. Atmanand as Chairman. The other newly elected members of the execom were introduced to the members at the Annual Meeting.

The outgoing and the incoming execom members & nomination committee members of the section were honored. The incoming Secretary, Dr. T. Micheal Kumar proposed the vote of thanks. Prior to the start of the Annual Meeting, a musical entertainment programme by Sangita Santosham, a versatile singer, songwriter and theatre actor based out of Chennai was organized.

The Annual Report and the Highlights of the Activities presented at the Meeting, select photos and the details of the award winners are shared in the gDrive at https://goo.gl/gO7VdJ

Information Resources
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Seven sci-fi predictions about robots that came true: They are everywhere. In our homes, our bags and our pockets. Not the mechanical humanoid robots the science fiction author Isaac Asimov wrote about over 70 years ago, but the powerful AI of the silicon chips that are in everything from mobiles and laptops to fridges and cars and children's toys. And this is what Asimov was really driving out: the essence of robots is their brilliance and speed, their reliability and ability to outperform human beings on so many levels.When I reread I, Robot before writing the drama serial, I was really struck by how Asimov's predictions were coming true right now. It's not that he described specific bits of technology, it's that he foresaw the moral, emotional and intellectual dilemmas that AI and the robotics age are forcing humanity to grapple with. https://goo.gl/YDMoeI

Facebook artificial intelligence spots suicidal users: Facebook has begun using artificial intelligence to identify members that may be at risk of killing themselves. The social network has developed algorithms that spot warning signs in users' posts and the comments their friends leave in response. After confirmation by Facebook's human review team, the company contacts those thought to be at risk of self-harm to suggest ways they can seek help. A suicide helpline chief said the move was "not just helpful but critical". The tool is being tested only in the US at present. https://goo.gl/Ywdt6T

"A Great Time to Be an Entrepreneur": An Interview with Ken Stauffer: Entrepreneurship is in. While startup activity was in decline several years ago, according to the 2015 Kauffman Index, the downward trend reversed last year, as more entrepreneurs launched their own businesses in what is the largest year-over-year increase in the past 20 years. IEEE members are no exception to this trend. According to a recent survey, a large number of IEEE—USA members (1 in 5) work in or own companies with under 50 people – and over 90% of these companies are technology driven. It is widely believed that this trend will continue to increase, as more and more new college graduates are opting to start their own companies instead of joining one. https://goo.gl/RIO4qx

Ethics and Engineering: A Matter of Trust: In the December 2015 issue of IEEE Technology and Society Magazine (IEEE T&S), 2015-2016 Society on Social Implications of Technology (SSIT) President Greg Adamson discusses Improving Our 'Engineering-Crazed' Image. Adamson opens his message with a mention of the recent VW environmental deception debacle, and the rift that such events create between the engineering community and the general public. "In addition to the anticipated financial impact on the company," Adamson writes, "it is a setback to the credibility of technologists, one that brings ethics to the fore." Adamson insists that, in situations such as these, an engineer's primary loyalty should be to public interest, and not his or her employer. Below, Adamson expands upon his IEEE T&S article, and discusses in more depth his opinions on engineering and ethics. https://goo.gl/nl71gN

Cool Engineering Projects: Engineers are working to change life for the better in ways that we can hardly even imagine. Check out some of the cool ideas they are bringing to life. The Hyperloop—Travel Faster than a Jet?; Human Exoskeleton—Freedom from Wheelchairs; The Makani Energy Kite—Generating energy at 1,200 feet; The HoloLens—Say Goodbye to Computer Screens; and Solar Sunflowers—Powering a House Near You. https://goo.gl/rQruqi

In Finland, Kids Learn Computer Science Without Computers: Students can learn the basics with a set of knitting needles. The Finns are pretty bemused by Americans' preoccupation with whether to put iPads in every classroom. If a tablet would enhance learning, great. If it wouldn't, skip it. Move on. The whole thing is a little tilting-at-windmills, anyway. Coding and programming are now part of the curriculum in the Scandinavian country, and they're subjects kids tackle from a young age. But unlike in some parts of the United States where learning to code is an isolated skill, Finnish children are taught to think of coding and programming more as tools to be explored and utilized across multiple subjects. https://goo.gl/stKBLj

Resources for Teachers & Parents

There are a number of resources available to teachers to help expose students to power and energy engineering. Here are some of our favourites:

- TryEngineering.org — Lesson plans, games, educator resources, career counselor resources, outreach
- IEEE.org Educational Resources — Lesson plans, IEEE outreach volunteer training programs, community service programs, brochures, educator resources, outreach
- Engineering, Go For It - Lesson plans, engineering newsletter, educator resources, outreach
- IEEE eMeritBadges.org - Pre-University Educational Resources — Lesson plans
- IEEE PES Interactive Lessons and Applets — Interactive modules illustrating power use and the power grid
- Junior Engineering Technical Society — National engineering competition for pre-university students
- Get Into Energy — Career counselor resources and outreach resources
- Discover Engineering — Listing of international engineering competition and outreach events

10 Breakthrough Technologies 2017: These technologies all have staying power. They will affect the economy and our politics, improve medicine, or influence our culture. Some are unfolding now; others will take a decade or more to develop. But you should know about all of them right now. https://goo.gl/jqQDQt

10 breakthroughs that will greatly improve phone batteries: There's nothing worse than seeing your phone's battery percentage meter drop below 20 percent, and it usually only happens when you need it most. Batteries haven't seen much love in the last couple decades, especially compared to the tech they power, but that doesn't mean there's nothing new on the horizon. We've been talking about cool ways the battery and charging methods are gradually improving for a while. Here's a rundown of all the most exciting new developments, which may make that low battery warning less of an annoyance in the future. https://goo.gl/CZ5mzl

Indian IT roundup for year 2016: It is often asked "Does IT matter?" Yes – being the largest creator of jobs in the organized sector for the past 15 years with 4.4 Million direct jobs and annual revenue of $ 220 Billion that accounts for 7.8% of GDP – IT matters a lot for India. A lot has happened in the year 2016 in IT. Here is quick take on what are perhaps the most important developments in IT, particularly from an India perspective. Happy reading! https://goo.gl/bjln3g

What a Visit to an AI-Enabled Hospital Might Look Like: The combination of machine learning, deep learning, natural language processing, and cognitive computing will soon change the ways that we interact with our environments. AI-driven smart services will sense what we're doing, know what our preferences are from our past behavior, and subtly guide us through our daily lives in ways that will feel truly seamless. Perhaps the best way to explore how such systems might work is by looking at an example: a visit to a hospital. https://goo.gl/a9pfPj

Bots: What you need to know: Bots are made possible by recent advances in artificial intelligence, user interface, and communication. Bots are a new, AI-driven way to interact with users in a variety of environments. As AI improves and users turn away from single-purpose apps and toward messaging interfaces, they could revolutionize customer service, productivity, and communication. Getting started with bots is as simple as using any of a handful of new bot platforms that aim to make bot creation easy; sophisticated bots require an understanding of natural language processing (NLP) and other areas of artificial intelligence. Bots use artificial intelligence to converse in human terms, usually through a lightweight messaging interface like Slack or Facebook Messenger, or a voice interface like Amazon Echo or Google Assistant. Since late 2015, bots have been the subject of immense excitement in the belief that they might replace mobile apps for many tasks and provide a flexible and natural interface for sophisticated AI technology. Bots are promising for a number of use cases currently served by mobile apps, as well as many that have never been well served by mobile apps: https://goo.gl/fBqV73

Your Guide to Building Great Apps: (whitepaper from Microsoft): Visual Studio 2015 helps you turn great ideas into great business applications. Our flexible cloud platform and enterprise-scale DevOps tools make it easier than ever to create scalable, state-of-the-art business applications for any platform—web, mobile, cloud, or on-premises. Create stunning apps for Windows, Android, iOS, and the web with the powerful integrated development environment of Visual Studio. Collaborate in the cloud with version control, agile, continuous delivery, and app analytics using any language, targeting any platform. https://goo.gl/OvdMwT

Forthcoming Events

Events Technically Sponsored by Madras Section and Madras Section Societies

2017 International Conference on Innovations in Electrical, Electronics, Instrumentation and Media Technology (ICEEIMT); 3 – 4 Feb 2017 at Karunya University, Coimbatore. http://www.karunya.edu/ece/icieeimt17/

2017 International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud); 10-11 Feb 2017 at SCAD Institute of Technology, Palladam. http://ismac2017.com/venue.html

2017 International Conference on Algorithms, Methodology, Models and Applications in Emerging Technologies (ICAMMAET); 16 - 18 Feb 2017 at Bharath Institute of Higher Education and Research, Chennai.

2017 Second International Conference on Electrical, Computer and Communication Technologies (ICECCT); 22-24 Feb 2017 at SVS College of Engineering, Coimbatore. www.icecct.com

2017 International Conference on Information Communication and Embedded Systems (ICICES); 23-24 Feb 2017 at S.A. Engineering College, Chennai. www.saec.ac.in/icices2017

2017 2nd International Conference on Computing and Communications Technologies (ICCCT); 23-24 Feb 2017 at Sri Sai Ram Engineering College, Chennai. www.sairam.edu.in/iccct17

2017 4th International Conference on Electronics and Communication Systems; 24-25 Feb 2017 at Karpagam college of Engineering, Coimbatore. www.icecs.in

2017 Third International Conference on Advances in Electrical, Electronics, Information, Communication and Bio-Informatics (AEEICB); 27- 28 Feb 2017 at Prathyusha Engineering College, Chennai. http://www.aeeicb2017.prathyusha.edu.in/

2017 Twenty-third National Conference on Communications (NCC); 2-4 Mar 2017 at Indian Institute of Technology Madras, Chennai. http://ncc2017.org/

2017 International Conference on Science, Technology, Engineering and Management (ICSTEM);3- 4 Mar 2017 at Kalaignar Karunanidhi Institute of Technology, Coimbatore. http://www.kitcbe-icstem.in/

2017 First International Conference on Recent Advances in Aerospace Engineering (ICRAAE); 3-4 Mar 2017 at Karunya Institute of technology and Sciences, Coimbatore. http://www.karunya.edu/aero/icraae/

2017 International Conference on Inventive Communication and Computational Technologies (ICICCT); 10-11 Mar 2017 at Ranganathan Engineering College, Coimbatore. http://icct2017.com/index.html

2017 4th International Conference on Innovations in Information, Embedded and Communication Systems; 16-17 Mar 2017 at Karpagam college of Engineering, Coimbatore. http://iciiecs.in/contact.html

2017 Fourth International Conference on Signal Processing,Communication and Networking (ICSCN); 16-17 Mar 2076 at Madras Institute of Technology. http://www.icscn.org/

2017 International Conference on Power and Embedded Drive Control (ICPEDC); 16-18 Mar 2017 at Sri Sivasubramaniya Nadar College of Engineering. http://icpedc2017.org/

2017 Third International Conference on Biosignals, Images and Instrumentation (ICBSII); 16-18 Mar 2017 at SSN College of Engineering, Chennai. http://icbsii2017.com/

2017 International Conference on Innovations in Green Energy and Healthcare Technologies (IGEHT); 16-18 Mar 2017 at Dr.NGP Institute of Technology, Coimbatore. http://www.icigeht.com/

2017 International Conference on Computation of Power, Energy Information and Communication (ICCPEIC);22-23 Mar 2017 at Adhiparasakthi Engineering College. http://iccpeic.weebly.com

2017 International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET); 22-24 Mar 2017 at Sri Sivasubramaniya Nadar College of Engineering, Chennai. http://www.wispnet2017.org/

2017 International Conference on Intelligent Transport System and Vehicle Technology (ITSVT); 23-24 Mar 2017 at Karpagam College of Engineering, Coimbatore.

2017 Third International Conference on Science Technology Engineering & Management (ICONSTEM); 23-24 Mar 2017 at Jeppiaar Engineering College, Chennai. http://www.iconstem2017.com/

2017 IEEE International Conference on Intelligent Techniques in Control, Optimization and Signal Processing (INCOS); 23-25 Mar 2017 at Kalasalingam University, Srivilliputhur. http://kalasalingam.ac.in/site/incos2017/ International Conference on Nextgen Electronic Technologies: Silicon to Software (ICNETS2); 23-25 Mar 2017 at VIT University, Chennai Campus, Chennai. https://www.icnets2.com/

2017 International Conference on Communicaton and Signal Processing (ICCSP);   6 – 8 Apr 2017 at Adhiparasakthi Engineering College, Chennai. http://www.iccsp-apec.com/

2017 International Conference on Telecommunication, Power Analysis and Computing Techniques (ICTPACT); 6-8 Apr 2017 at Bharath Institute of Higher Education and Research, Chennai.

2017 Innovations in Power and Advanced Computing Technologies (i-PACT); 21-22 Apr 2017 at Vellore Institute of Technology University, Vellore. http://www.ipact2017.com/

2017 IEEE International Conference on Electrical, Instrumentation and Communication Engineering (ICEICE); 27-28 Apr 2017 at M. Kumarasamy College of Engineering, Karur. http://www.iceice2017.com/

2017 International Conference on Trends in Electronics and Informatics (ICEI); 11-12 May 2017 at SCAD College of Engineering and Technology, Tirunelveli. http://icoei.com/index.html

2017 International conference of Electronics, Communication and Aerospace Technology (ICECA); 20-22 Apr 2017 at RVS Technical Campus, Coimbatore http://icoeca.com/index.html

2017 Third International Conference on Sensing, Signal Processing and Security (ICSSS); 4 - 5 May 2017 at St. Peter's College of Engineering and Technology, Chennai.

2017 International Conference on Computational Intelligence in Data Science(ICCIDS); 2-3 Jun 2017 at Sri Sivasubramaniya Nadar College of Engineering, Chennai. http://www.iccids.in/

2017 International Conference on Intelligent Computing and Control Systems (ICICCS); 15-16 Jun 2017 at Vaigai College of Engineering, Madurai. iccs2017.com/index.html

2017 International Conference on Intelligent Computing and Control (I2C2); 24-25 Jun 2017 at Karpagam Innovation Centre Karpagam College of Engineering, Coimbatore. i2c2.in

2017 International Conference on Computing Methodologies and Communication (ICCMC); 18-19 Jul 2017 at Surya Engineering College, Erode. http://iccm2017.com/index.html

2017 IEEE International Conference on Smart Technologies and Management for Computing, Communication, Controls, Energy and Materials (ICSTM); 2-4 Aug 2017 at Vel Tech Rangarajan Dr. Sagunthala R & D Institute of Science and Technology, Chennai. http://www.veltechuniv.edu.in/icstm2017/

2nd International Conference on Inventive Computation Technologies (ICICT); 24-25 Aug 2017at RVS Technical Campus, Coimbatore. http://icoict.com/index.html

2017 IEEE International Conference on Computational Intelligence and Computing Research (ICCIC); 14-16 Dec 2017 at Tamilnadu College of Engineering, Coimbatore. www.itfrindia.org/2017ICCIC/

Announcements

Financial Assistance to SBs in 2017

SB College Name	Event date	Topic	Amount (Rs.)
Cape Institute of Technology	28-30 Sep,2016	Three days Workshop on Internet of Things(IOT)	7,500
Sri Krishna College of Technology	17-27 Oct,2016	National level Workshop on "Lab VIEW" (Engineering Solutions Using Graphical Systems Design - NI Lab VIEW and HW Platforms)	5,000

Guidelines to submit matter for publishing in IEEE MAS LINK

As you are aware IEEE MAS LINK—the newsletter of IEEE Madras Section gets published every month in electronic form and once a quarter as an abridged print edition.

While IEEE Madras Section OUs such as Student Branches, Society Chapters, Affinity Groups, Various Committees organising many events all are not getting reported for publishing in the newsletter.

We request you to regularly submit the reports on activities held under IEEE banner only in your OU (pl. avoid submitting other events not related to IEEE / not organised by IEEE) to IEEE MAS LINK by email to ieeemaslink@gmail.com

While the last date for submission is 10th of every month, pl. do not wait till the last date. Please submit the reports as soon as the activity is conducted. This will ease the work of the Editorial Team.

We have provided some guidelines with regard to submitting the report and the same can be seen at http://ieeecs-madras.managedbiz.com/link-web/report-to-maslink-submission-guidelines.pdf and also shared in the folder https://goo.gl/PKX5BK

Please follow the suggested guidelines while submitting the reports.

Please note that the reports not adhering to the guidelines may not get published in the newsletter.

If you require any assistance, please get in touch with the editorial team at ieeemaslink@gmail.com

Guidelines for IEEE Madras Section funding for the Student Branches (SBs) for events such as Conferences (national/international), Workshops, Symposiums, Seminars etc.,

The duration of the event to be funded should be of minimum one day (6-8 hours).

The funding will be considered for SBs who have submitted their activity reports for the earlier years. The new SBs are exempted from this condition for the first time.

While funding will be provided for a minimum of one event in a year, the SBs with membership of over 100 can apply for funding for the second event after a gap of six months to the first event.

Application in the prescribed format available at https://drive.google.com/file/d/0B5jxEnDN1Cofbm03bUVhTTd5dGc/view?usp=sharing to be submitted to the Section Office by post and by email at ieeemas@gmail.com with a copy to ieeemas.events@gmail.com through proper channel, at least THREE months (maximum) ONE month (minimum) ahead of the event with the following attachments:

- IEEE members list – both students and professionals with membership number valid for the current year
- A draft copy of the brochure or first call letter of the event. (The soft copy can be mailed before 8th of the month to ieeemaslink@gmail.com for publicity through the IEEE MAS LINK, the newsletter of IEEE Madras Section).

The funding application will be reviewed by the Finance & Student Activities Committees of the Section. Once the sponsorship is approved in-principle by the Exe-Com, the SB will receive intimation from the Section office, Chennai.

After receiving the approval, the SB Counsellors are requested to include the IEEE MAS logo in all the related communications such as Brochure, Invitation, Certificate, Proceedings (hard copy and soft copy), by incorporating the phrase "Supported by IEEE Madras Section".

The base sponsorship amount will be Rs. 2500 for SBs having a membership up-to 25 and for every additional member, a sum of Rs. 50/- will be added to the base amount. However, the total sponsorship per event will be restricted to Rs. 12500/-

This sponsorship amount will be sent by cheque drawn in favour of the respective SB account, within a month on receipt of the following by the Section Office.
- Copies of the Brochure, Invitation, Certificate (if any)
- Copy of Proceedings/Souvenir (hard/soft copy)
- Utilization Certificate / Stamped Receipts signed by the SB Counsellor or Head of the Institution
- Brief report on the event with a good quality photo as per guidelines at for publication in IEEE MAS LINK

Funding for IEEE Humanitarian Activities

The IEEE Humanitarian Activities Committee (HAC) is tasked with supporting the IEEE Board-endorsed vision of IEEE volunteers around the world carrying out and/or supporting impactful humanitarian activities at the local level – that is, "feet on the ground."

HAC Events are funded upto USD 15000. SIGHT project funding varies from US$500 and US$19,999. HAC project proposals with budgets between US$20,000 and US$60,000 will be considered.

If you are interested in receiving funding for a HAC effort, follow the links to find out about HAC event funding, HAC project funding, or SIGHT project funding.

2017 Events Request for Proposals: http://files.constantcontact.com/68d33b8c301/1e080db5-b274-4b8e-8788-c20ff98f9c8b.pdf

2017 SIGHT Projects Request for Proposals: http://files.constantcontact.com/68d33b8c301/8c673092-485c-4267-8c88-965188ddc799.pdf

IEEE HAC Projects – 2017 Call for Proposals: http://files.constantcontact.com/68d33b8c301/19d072f1-ce6e-4065-b4a0-f675f46979e5.pdf

Google once hired goats to mow its lawns: Google in 2009 hired goats to mow its lawns at their headquarters in California, United States. Under Google's 'low-carbon approach', about 200 goats spent roughly a week eating the grass and fertilising at the same time. Referring to the event, Google's blog stated that the goats were "a lot cuter to watch than lawn mowers"

Airbus concept car can be lifted by drone to avoid traffic: European aircraft manufacturer Airbus has unveiled a self-driving electric transportation concept called 'Pop.Up' which uses drones to airlift car pods to avoid traffic. An Airbus platform allows passengers to book their rides and sends them self-driving cars. The 8.5-foot-long cars are carried through the air by a drone and dropped to the destination to avoid traffic.

IEEE Computer Society Student Challenge

The IEEE Computer Society Global Student Challenge is an international challenge open to all IEEE Computer Society student members. Students are invited to create an innovative solution, based on the IEEE Computer Society 2022 report that will solve a real-world issue.

Submit your solution to a real-world problem using the 2022 report as the foundation, in one of the following formats:

- PowerPoint: 10 — 20 slides
- Video: Maximum of two minutes
- Illustrated storyboard: 10 - 20 panels

Submit your presentation with a supporting essay (maximum 1,000 words) on what technologies in the 2022 report are being utilized and why you think your solution will work. The final judges especially value those proposals that submit a working prototype, demo, or code. These can be made available by sharing a link in your essay or presentation. In addition, please submit a jpeg cover image of your challenge to help identify it.

Top prize includes US $2,000 and a trip to the Computer Society Annual Awards Ceremony in Phoenix, AZ in June 2017.

Deadline for submissions is 1 April 2017. More info at https://www.computer.org/web/membership/student-challenge

IEEE Group Medical Insurance Policy 2017 - Date Extended to 31st March 2017 for enrollment.

As you are aware that IEEE India Office has introduced a very attractive medical insurance policy for IEEE members from India. This policy is now extended to students as well. Here are the unique benefits of this group medical insurance scheme as compared to individual medical insurance policies available in the market today.

a. Medical check-up is NOT REQUIRED for enrollment of an eligible member or their dependents

b. Enrollment is available for any member from ages 18 to 85. A total of 7 members may be enrolled i.e. member, spouse, up to 3 children, parents or parents-in-law- all in a single policy. Dependent children between ages zero to 25 are admissible. A member with an existing policy or their dependent parents/ parents-in-law can continue renewing even beyond age 85.

c. Pre-existing diseases (PED) are covered from day one if the member held an IEEE membership any time prior to the current subscription. Only ensure renewal with the same membership number same as that held earlier. Else cover for PED begins after 6 months

d. Only 10% co-pay for Parents irrespective of their age.

e. It is easy to subscribe. Annual premium can be paid in Indian Rupees through the payment gateway (via credit card, debit card, online transfer, etc.). Simply goto the IEEE Sponsored Insurance Pages website (http://www.ieee.org/ membership_services/ membership/discounts/group_insurance.html)

Some important and useful documents related to this are available on IEEE India Council website (http://sites.ieee.org/indiacouncil/medical-insurance-documents/)

You may contact Yathi (Yatheendranath Tarikere <y.tarikere@ieee.org>) or Nagaratna Nagaratna Pai <nagaratna.pai@ieee.org> from IEEE India Office for any clarifications.

New IEEE Collabratec Communities

IEEE Collabratec ™ has established new Collabratec communities centered on Block Chain and centered on IEEE 5G. Both are free to all. If you are interested in joining over 80,000 of your colleagues to interact on IEEE Collabratec, see https://supportcenter.ieee.org/app/answers/detail/a_id/1063/~/what-is-ieee-collabratec

KShankar National Students Paper Contest (KShankar NSPC-2017)

KShankar National Students Paper Contest (KShankarNSPC-2017) for IEEE Student Members, an annual Technical Paper Competition event is being organized by IEEE Bombay Section at Shah & Anchor Kutchhi Engineering College, Chembur, Mumbai on April 8, 2017.

The top three prizes include cash awards of Rs. 10000/-, Rs. 7500/- and Rs. 5000/- each

The event poster is at https://drive.google.com/file/d/0B3HJ2knpFzKHSUY5Wi1zaFlYVmM/view?usp=sharing

The rules for the event is at
https://drive.google.com/file/d/0B3HJ2knpFzKHdzZHMk1iVWFzOFU/view?usp=sharing

As the last date for paper submission is 20th March, pl. respond at the earliest

"Alpha" - The IEEE Madras Entrepreneurship Summit 2017

IEEE Madras Entrepreneurship & Innovation Committee in association with SRM IEEE Student Branch is organizing "Alpha" - The IEEE Madras Entrepreneurship Summit 2017 to provide a platform for budding entrepreneurs and Startup Enthusiasts to get an exposure and engage with fellow Entrepreneurs

Sessions & Features:
- Riding the Industrial 4.0 Wave with Augmented Reality/Virtual Reality
- Building a Consumer Hardware Product in India
- Workshop: Validating your idea
- Learning how to build a Minimum Viable Product
- How to get your first few customers
- How to build an Online Marketplace startup like Uber?
- How to raise funds for your startup?
- Panel Discussion: Startup vs Bootstrap Funding

Why should you attend?
If you are an Entrepreneur or planning to startup, you should attend this event. You will get an opportunity to meet experts from the different startups, interact and network with them. If you have an idea in mind and wish to build a startup out of it, this would be your ideal platform.

Registration: For more details about the event and to register: https://in.explara.com/e/-alpha--the-ieee-madras-entrepreneurship-summit-2017

Venue: SRM University, Kattankulathur
Date: 18 March 2017
Registration Fee: IEEE Members: INR 500; Non-IEEE Members: INR 800

If you have any questions regarding registration or would like more details about the program, please reach out to: ieee.srmktr@gmail.com or 8754511689, 9677290880. (Ajith, Pranav)

Website of SRM SB:- http://sites.ieee.org/sb-srmuktk/

Distinguished Lecture Programmes in March

IEEE COMSOC DISTINGUISHED LECTURE on "Security Challenges and Opportunities in SDN/NFV and 5G Networks" by Dr. Ashutosh Dutta, AT&T, New Jersey & Director Industry Outreach - IEEE COMSOC, IEEE 5G Initiative Co-Lead on 21st March 2017 at 1.30 pm at ECE Dept. Anna University.

IEEE COMPUTER SOCIETY DISTINGUISHED LECTURE on "Data Driven Infographics" by Dr. Fakhrul Hazman Yusoff of Universiti Teknology MARA (UiTM), Malaysia in the Faculty of Computer and Mathematical Science (FSKM) and Head of Spatial Visual Analytics Research Group on 15th March 2017 at 6.00 pm at CSI Hall.

IEEE Madras Section: Call for Proposals: The IEEE Madras Section hosts various events such as Hub Congress, Faculty development Programmes (FDPs), Xtreme Programming Competition, Student Paper Contest, Entrepreneurship Summit, Innovation workshops, Quiz Programmes , Monthly Technical Lectures for the benefit of members. To facilitate these events to be spread out across the state, we expect the Student Branches SBs to come forward in hosting them. For many of the events, financial support is also provided to a small extent. The SBs hosting these events will be suitably recognized and rewarded with additional 10 points while evaluating the SBs for annual awards. The SBs are required to send their interest to host any one of these events along with a tentative date, budget to ieeemas.events@gmail.com with a copy to ieeeemas@gmail.com   These proposals will be evaluated and the offer will be made to the selected SBs. While we will come out with specific announcements on these events hosting, we are giving advance intimation to the SBs so that they can plan for it and act as soon as the announcements are made. If you require additional info / any clarifications on this initiative, pl. get in touch with us through email at ieeemas.events@gmail.com with a copy to hrmohan.ieee@gmail.com

Website Competition: During the IEEE Madras Section SB Officers Meet held on 5th Feb 2017, it was stressed that every SB should have its own website to record and publicize their IEEE activities. A brief introduction to create the website using WordPress and simple method to have web presence using the word document and storing contents in gDtives were given. Further websites can also be created using the IEEE portal and Google sites features. It may pl. be noted that the SBs which are having their web presence are given a weightage of 10 points whie their activities are evaluated for Annual Awards. In this context, IEEE Madras Section along with IEEE CS and IEEE PCS will be announcing a Competition with attractive cash prizes and certificate of appreciation for SB Website Creation. Pl. look forward to the announcement.

IEEE Madras Section membership status as on 1st Feb 2017

Affiliate	23
Associate Member	37
Fellow	4
Graduate Student Member	947
Life Member	7
Life Senior	12
Member	2307
Senior Member	193
Student Member	5720
Total	9251