IEEE-MAS Link

Vol. 13 No. 6 Jul 2016

Message from Chairman

Dear Members,

Season's Greetings

The rat race for engineering admissions is settling down slowly. Those who got the branches of their liking would be rejoicing whereas those who have not got the one to their liking would be discouraged. Dear students, do not get dejected that you did not the branch of your liking. It is too early for you to decide what branch is suitable for you. Take up the one you finally got and approach with an open mind. There are challenges everywhere and you will start enjoying the challenges as you move on, provided you do your homework well from day one. Some of you may consider that Civil engineering is not a good branch. But think of the roads, buildings, bridges and other infrastructure, which are all due to the work of civil engineers ! Marvelous is it not ?

Do you know which branch of engineering came up first historically? It was the Civil engineering. This was due to the construction of buildings, roads, bridges etc. which started from time immemorial. You can now connect why it is called "Civil" During the days of war when many engineering skills were developed, those so called engineers who built bridges, roads, buildings etc. were those who were not directly involved with combat or direct fighting, rather civilians. Thus these engineers came to be known as Civil engineers. During industrial revolution, machinery started getting designed and fabricated and thus evolved Mechanical engineering. The last in the group was electrical engineering when electricity came to be used as the power to run machinery. It later developed as the main driving power for large industries like cement, steel and later on for locomotion as in electric traction.

With the above briefing, I hope you can be happy with any branch which you have chosen. IEEE is there to support you in various ways under any circumstance. You need not be one in circuit branch or computer science. Even mechanicals and civils can become member and get benefited. Do participate in the various programs of IEEE organized in your college or section along with your colleagues and friends and get benefited.

It is time for those of you who are volunteering to go through the website of IEEE and apply or nominate your colleagues for appropriate awards. There are plenty of them awaiting you.

I had indicated in one of the earlier newsletter regarding membership upgrading. Those of you who are eligible, I request you to put up your on line nomination with support from senior members. If you have any difficulty, we can support you in identifying senior members in your area of expertise and region. Wish you all the best.

Wish you all the best

Till next time,

Yours voluntarily
M A Atmanand
Chairman, IEEE Madras Section

Message from the Editors

Prashant R Nair
Editor
ammasprashantnair@gmail.com

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

Dear Readers,

Welcome to the 6th issue of IEEE MAS LINK for the year 2016. After a summer break, most colleges and universities are in the process of resuming their academic sessions. IEEE SB activities in all these institutions will now start picking up.

This month issue of MAS LINK features activity reports from 8 SBs and one society chapter. This blip is understandable due to the summer break for all academic institutions. Nevertheless, we need to appreciate these SBs and chapters for utilizing the summer gainfully, abuzz with activities. We reiterate that reporting in LINK is tied to rebates, grants, incentives and awards from the Madras Section and therefore we request that all SBs to report their activities and achievements.

This issue of LINK carries the list of SBs received the financial support from the HQ through the Section and a list of SBs supported by the Section for organizing events. SBCs of SBs who have not availed the financial support from the Section may submit proposals in time.

In order to release the newsletter by middle of the month, we are continuing with the practice of not considering events reported after 8th. All SBCs are requested to make a note and submit the reports as per the guidelines available at http://ieeecs-madras.managedbiz.com/link-web/report-to-maslink-submissionguidelines.pdf

This issue provides links to 12 conferences technically supported by the Madras Section and organized by active SBs. These events are exciting avenues for showcasing your innovation and ingenuity. IEEE MAS LINK requests for wide patronage of these conferences. Along with these, the Forthcoming Events list other major and interesting conferences and events being held at different parts of the country and globe which would interest our members. Please make a note of these announcements and get benefited by participating in these events.

The usual "Information Resources" column presents links to some interesting guides and a brief review of " Nature India Annual Volume 2015" a multi-disciplinary compendium featuring handpicked science & technology news and features, research highlights, commentaries, policy features, career articles and interviews with some leading lights of Indian Science which will be useful to anyone interested in India's Science, R&D scene and the latest career and industry trends.

In the Announcements section, you will find interesting posts relating to Workshop on 'The Art of Persuasion', ICT Quiz by IEEE CS & IEEE PCS, Workshops on Career and Communication Skills, Employability, Interviewing techniques, Resume Preparation, SOPs for Higher Studies, IEEE Day Celebrations and few funding related posts. All SBs to make a note and get involved in these activities and get benefited.

IEEE MAS LINK Congratulates Dr. Ramalatha Marimuthu for having been awarde 2016 WIE Inspiring Member of the Year Award "for significant leadership and sustained contributions to society through appropriate technology transfer and women empowerment."

We look forward contributions from our members to make MAS LINK more informative and appealing. To access past issues of MAS LINK, pl. visit http://ieeecs-madras.managedbiz.com/link-web/index.html

Ganadipathhy Tulsi's Jain Engineering College, Vellore

International Yoga Day Celebration

IEEE Communication Society chapter in association with World Community Service Centre (WCSC), Azhiyar, celebrated 2nd International Yoga Day on 21st Jun 2016. Prof. A. Kanchana, Prof. T Sundarapandian, and Prof. Setharaman were invited as resource persons from WCSC. Others who spoke included Dr. R.Varadharajan, Principal; Prof.A.Manimegalai, HOD/ECE; Mrs. D. Santhoshkumari, AP/ECE and Mr. C. Kumar, AP/ECE.

Report by: Mr.Kumar C, mr.c.kumar@ieee.org

Karpagam College of Engineering, Coimbatore

How to become a best Product developer?

The IEEE SB organized a seminar on product development by Dr. Vimalathithan Rathinasabapathy, Prof/ECE on 4th Jun 2016. The seminar covered the methodology for innovative product development and the methods to reduce the risk of investment, increase the chance of success and to improve the overall learning cycle

Workshop on Simulation and Modeling

The IEEE SB organized a workshop on "Simulation and Modeling" on 8th Jun 2016 by Dr. B. Nagaraj, Head/ECE & KIC and Dr. P. Suresh, Prof & Dean/Mech. The workshop mainly focused on modeling and simulation of the new product using latest software packages such as AutoCAD and Creo.

IEEE Product Safety Engineering Society Student Chapter Inauguration

The IEEE SB and ECE department jointly organized the inauguration of Product Safety Engineering Student Chapter on 11th Jun 2016 by Dr. B. Nagaraj, Head/ECE & KIC and Vice-Chair of PSES (Madras Chapter). A Lecture on "Visible Light Communication based High-Priority Vehicle Freeway Project" Dr. S. Natarajan, Prof/ ECE was organized as the first activity. Dr. P. Vijayakumar, Principal presided over the inaugural session Dr. Vimalathithan Rathinasabapathy, Prof/ECE also participated.

Innovative Idea Collection

The IEEE SB organized an Idea collection event on 25th Jun 2016. Around 50 students of both UG and PG attend the event and .100+ new ideas were collected from the students.

Introducing the Smart Materials

The IEEE SB organized a lecture on "Smart Materials" on 14th Jun 2016 by Dr. S. Natarajan, Professor/ ECE. The session helped the participants on how to use smart materials in variant applications and also to teach the students.

Workshop on Additive Manufacturing

The IEEE SB organized a workshop on "An Additive Manufacturing" on 16th Jun 2016 by Dr. J. Ganesh Murali, Prof & Head/ Automobile. Around 100 students from various colleges participated in the program. The seminar topics covered included types of additive manufacturing processes, materials used for manufacturing and how the AM equipment reads data from the CAD file.

Seminar on Significant of Nano technology

The IEEE SB organized a seminar on "Significant Nano Technology" on 18th Jun 2016 by Mr. Ebin Ephrem Elavathingal, AP/ECE. Seminar topics covered included discovery, recent development of nanotechnology, recent research in nanotechnology and applications of nanotechnology.

Guest Lecture on Yoga for Healthy Life

The IEEE SB organized a lecture on the topic Yoga for Healthy life on 21st Jun 2016 by Dr.Shivkumar, Prof. He gave lot of tips to practice yoga and efficient ways to keep our body tuned to lead a healthy life.

Report by: Dr.B.Nagaraj, nagarajice@gmail.com

Kings College of Engineering, Pudukottai

IEEE SIGHT CAMP

Mr. B. Madhavan and Mr. N. Sanjeev participated in the 5 days IEEE SIGHT Camp held at Eraviputhenthurai, Thoothoor, Kanykumari District from 26th to 30th Jun 2016. Sanjeev, received the "Best Male Participant" award for this camp.

Faculty Development Programme

IEEE SB organized an FDP on "An Introduction to Fuzzy Logic Control Systems" on 28th Jun 2016. Dr. S. Sivakumar, HOD/EEE inaugurated the programme. Resource persons were Mr. P. Narasimman, AP/EEE and Ms. N. Hemavathi, AP/ECE. The FDP covered topics such as fundamentals of fuzzy logic, GUI tool box design with hands-on-session on case studies on temperature control and speed control of DC motor.

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

K.S. Rangasamy College of Technology, Tiruchengode

Research forum on "Cyanogenic Glucosides in Cassava Products - An Overview"

IEEE-EMBS student chapter organized a Research forum on 23rd Jun 2016. Mr.G.Ayyappadasan, AP/Biotechnology, presented his views on cyanogenic glucosides in cassava products. He elaborated the functions of glucosides and various health effects associated with the consumption of cassava.

Programme on Placement Opportunities

A programme on "Placement Opportunities in Biotechnology and Biomedical Engineering Industries" was organized on 2nd July, 2016. Dr. Michael Joseph, HR Manager, VWR Lab Products Ltd, Coimbatore delivered a talk on corporate essentials, industrial expectations, joint research programmes and status and scope of biotech and biomedical industries.

AZOLLA - Cultivation and Applications

In view of enhancing entrepreneurship initiatives, a training programme was organized by the IEEE-EMBS student chapter on 8th Jul 2016 in the aspects of cultivating 'Azolla', a protein-rich floating fern. Demonstration on Azolla cultivation was given by Mr. M. Rajendra Kumar. R. K. Algae Project Center, Ramanathapuram. He elaborated the applications of Azolla as animal feed, biofertilizer, food stuff for human consumption etc.

Report by: Dr.P.Ponmurugan, drponmurugan@gmail.com

KPR Institute of Engineering and Technology, Coimbatore

Introduction to Research: Preparation of Research proposal and Journal Articles Workshop

IEEE SB and Civil Engineering Department organized a one-day national workshop on "Introduction to Research: Preparation of Research Proposal and Journal Articles" on 24th Jun 2016. The resource person for the workshop was Dr. Arun K. Tangirala, Prof/Chemical Engg, Indian Institute of Technology Madras, Chennai. 75 participants from various colleges attended the workshop. Dr. Arun created awareness to research scholars, PG students and faculty about the details associated with formal research and carried forward this workshop to help scholars to overcome common misconceptions that may be present in their minds. Topics covered included how to do detailed literature surveys, how to prepare project proposal and how to get fund from various grant agencies. Dr. K. Bommanna Raja, Principal presided over the function. Dr. G. Ganesh Prabhu, Head/Civil also spoke during the workshop organized by Dr. A. K. Priya, AP/Civil and Prof. S. Ragunath, AP/Civil.

Leadership & Startup Summit 2016

IEEE SB and Training and Placement Section conducted the "Leadership & Startup Summit 2016" on 4th and 5th Jul 2016. The special invitee was Padmashri awardee and Social entrepreneur, Mr. Arunachalam Muruganantham, who spoke on the topic, "The Proof Being Small you can do Big Thing". He elaborated about how he converted a social problem into livelihood.

Other speakers included
Mr. Ayyakannu, Director-BOAT, MHRD
Mr. Manivanan, Managing Director True Value Homes Pvt Ltd
Ms.Vijayalakshmi, VP-HR Payoda Technologies,
Ms. Latha Sabarish, Sr.Manager- TAG team, Virtusa Polaris
Mr. Sellamuthu, Head-HR, Ashok Leyland,
Mr. Stanley George, Head HR Hexaware Technologies
Mr. Rajan Babu, CEO & Director HR, ARGHAA HR solutions
Mr. Natraja Perumal, Manager-HR, MILACRON Technologies
Mr.Vishwnanathan, Head-Engineering campus Hiring, Wipro Technologies
Mr.B.Anbuthambi Vice President-Education Initiatives, ICT Academy of Tamil Nadu
Mr. Siva Prasad, CEO, Realworks studios
Mr. Ramakishnan, MD & CEO Corporate Clinic
Mr.Sivarajah

Dr. K.Bommanaraja, Principal presided over the summit. Mr.K.P.Ramasamy, Chairman; Ms. Samyuktha, Head Training and Placement and Dr.V.Kumar Chinnaiyan, Head/EEE also graced the event.

Report by: Dr. V. Kumar Chinnaiyan , kumarchinn@hotmail.com

St. Joseph's Institute of Technology, Chennai

Inauguration of Power Electronics Society

IEEE Power Electronics Society was inaugurated by Dr. V.T Sreedevi, Chair, IEEE Power Electronics Society, Madras Section, on 29th Jun 2016. The event was graced by Dr.B.Babu Manoharan, MD; Mr.B.Sashi Sekar, CEO and Dr.P.Ravichandran, Principal. The Chief Guest addressed the gathering and briefed the benefits of IEEE membership and scope of the Power Electronics society. The session was followed with a lecture on "Recent trends in Power electronics".

IEEE RAS Chapter

The project development team of IEEE RAS is developing a humanoid robot guided by Dr. C. Gnana Kousalya, HOD/ECE. This projects aims in establishing a humanoid robot, with a purpose of appreciating the necessities of humans, answering questions, respecting feelings judged by facial gestures of humans in order to react suitably and supporting human based on the requisites from the personal data. Speech recognition, face recognition and interactive communication with humans have been completed till now. The intelligence behind this robot was built up using the following components: INTEL NUC, Arduino Kit, PIR SENSOR, Ultrasonic sensor, Servo and DC motors, Motor Driver circuits, Camera module, Microphone, Battery charging module and SMPS.

Report by: Gnana Kousalya C , eceieeeadvisor@gmail.com

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

National Level Workshop on "Embedded System Technologies"

The IEEE SB organized a two-day national workshop on "Embedded System Technologies" on 17th and 18th Jun 2016. The workshop was inaugurated by Mr. S Janarthanam, Scientist, VLSI and Embedded Systems Group, Project Investigator, EPDPT Project, National Institute of Electronics and Information Technology. Workshop was attended by over 100 members including faculty from various engineering colleges and IEEE members. A hands-on training session was conducted by Narendra Babu and Mohammed Hussain, Senior Application Engineers, Starcom Information systems ltd, Bangalore. Dr. S. Bhagavthiperumal, Vice-Principal presided over the workshop. Others who spoke included Dr.N. Gangatharan, and Dr. C. Arun, Professors; Dr. T.S Arulanandh and Mr. Ramachandran.R, APs and Mr. T. Mithun Jain, IEEE SBC vice-chair. The training covers introduction to the Embedded Systems, introduction to ARM microcontroller and programming environment, simple motion control using I/O ports, sensor interfacing, interrupt programming, ADC and DAC Interfacing. Participants completed all the experiments of Embedded Laboratory using TIVA starter Kit.

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

Thiagarajar College of Engineering, Madurai

SMARTFEST'16

IEEE SB along with IT department organized a series of activities titled SMARTFEST16 covering all the fields of engineering to bring out the hidden talents among the budding Engineers on 23rd Mar 2016. The event comprised of three activities such as Demotask (Project Presentation), InfoMeet (Paper Presentation) and Virtual Info (Animation Contest). 70 Students were participated in the fest, which was coordinated by by Ms.S.Karthiga and Mr.M.Thangavel, APs/IT. Dr. S.Muthuramalingam, HOD/IT distributed the prizes.

IEEE Indian Antenna Week 2016 (IAW 2016) Workshop on "Advanced Antenna Technology"

The 7th edition of Indian Antenna week 2016 (IAW 2016) was organized by the IEEE SB along with IEEE AP-S Madras Chapter and IEEE AP/MTT Kolkata Chapter from 6th to 10th Jun 2016. The objective of this workshop on "Advanced Antenna Technology" was to bring antenna researchers & practitioners from around the world on a common platform so as to share and learn from each other in relation to latest developments in the field of Antennas. Several distinguished speakers from India, USA Singapore and Taiwan conducted tutorial sessions, special lectures and open forum on research methodologies

. Distinguished speakers included:

- Dr. Kin Lu Wong, Sun Yat-sen Chair Professor, NSTU, Kaohsiung, Taiwan delivered the inaugural speech emphasizing on the "Need of research activities in Antenna and allied areas for 5G communication and the strong presence of future market for 5G in Indian and South Asian continent".
- Dr. Debatosh Guha, Professor, IRPE, Univ. of Calcutta who gave the introduction about Indian Antenna Week and Antenna Made of Mathematics
- Dr. Sudhakar Rao, "Phased Arrays and Reflector Antennas for 21st Century Satellite Communications

- Dr. Ramesh Garg, "The modeling and analysis of Planar Goubau Line with equivalent circuit analysis
- Dr. Bhaskar Gupta, "Design of Compact Phase Shifters for Phased Array Feeds"
- Dr. M.Balachary, "Trends and Techniques in Broadband Antennas Design & Challenges"
- Dr. S.S.Patnaik, "Clinical approach to human mobile interaction"
- Dr.V.Abhaikumar, Principal, Thiagarajar College of Engineering, "Electromagnetics Made easy".
- Dr. D.C. Pande, "Photonics in Radar System"
- Dr. Arokiaswami Alphones, "Leaky Waves- Concept and Applications to Antennas."
- Dr.SurendraPal, "Polarization of antenna"
- Dr. K.T. Selvan, "Uncertainty in Antenna Measurements"
- Dr. Chinmoy Saha, "Frequency Notched UWB Antennas: New techniques and Concepts"
- Dr R.K. Mishra, "Introduction to Fractal Antenna"
- Dr.Satyajit Chakrabarti, "Multi Function Antenna"
- Dr. P.H.Rao, "Periodic Configurations and their Applications in Antennas"
- Dr.S.Raghavan, "Milestones of Planar Transmission Lines"
- Mr. S. Deepak Ram Prasath, "Antenna Measurements Made Easy"
- Open Forums on
    - "Challenges & Opportunities for Antennas in Defence and Space Applications by Dr. M.Balachary, Dr.M.Chakravarthi, Dr.M.Vijayasree and Dr.Diptiman Biswas.
    - "Challenges & Opportunities for Antennas for Wireless Applications" by Dr. Kin Lu Wong, Dr. S.Raju, Dr.Jeyaprakash Thakur and Mr.S. Deepak Ram Prasath
    - "Recent Works and Research Thoughts in Antennas" by Dr.DebatoshGuha , Dr.R.K.Mishra, Dr.Rajarshi Bhattacharya and Dr.Halappa R Gajera.

About 75 research papers were received, of which 49 papers were accepted oral and poster presentation during the workshop after a rigorous review procedure. To appreciate and encourage students and young antenna researchers, the presented papers were evaluated by panels of judges for Best paper awards. 137 members participated in IAW 2016 conference.

Report by: K Kalyani, k_kalyani@tce.edu

IEEE MAS LINK congratulates the IEEE SB of Easwari Engineering College
for having been selected to receive the R10 EA support fund of $200
for the Educational Outreach programme.
One week hands on training on
"Electrical Appliances Servicing, House Wiring and Plumbing for Rural Youth"

IEEE Information Theory Society, Madras Chapter

S.No	Event	Date	Name of the Resource Person	Topic	Participants
1	Entrepreneurship Awareness Talk	1st Jun 2016	Umesh Fernando.J.G CEO, Trident Facility Service Pvt Ltd.	"How to become a successful Entrepreneur "	25 students from National Engineering College (NEC)
2	Technical Meeting-1 Day	24th Jun 2016	Mr. S. JANARTHANAM Scientist, VLSI and Embedded Systems Group, Project Investigator, EPDPT Project National Institute of Electronics and Information Technology, (NIELIT Chennai), Chennai, Tamil Nadu, India	System Design Technologies	UG students from Sona College of Technology
3	Motivational Talk – 1 Day	28th Jun 2016	Mr.B.Murali Professor and Head Department of Computer Science, PSG College of Arts and Science, Coimbatore	Attitude training	114 Final Year CSE Students from NEC
4	National Level Project Expo for School Students - – 2 days	29th and 30th Jun 2016	*Chief Guest* Mr. B.Pradeep Nair Head – Engineering Services, Sterlite Copper, Thoothukudi *Special Guest* Mr.B.Murali Professor and Head Department of Computer Science, PSG College of Arts and Science, Coimbatore	Innovations in science and technology	School students from 40 schools of nearby districts Exhibitors : 200 Visitors : 2200

Motivational talk on "Attitude Training"

On behalf of IEEE ITS Madras Chapter, a motivational talk on attitude training and values of life was organized on 28th June, 2016 at National Engineering College. The talk was given by Mr.B.Murali Professor and Head Department of Computer Science, PSG College of Arts and Science. In his talk, he motivated the students about attitude to be followed while attending interviews. He also stressed the importance of values of life.

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

IEEE MAS LINK Congratulates Dr. Ramalatha Marimuthu for having been awarde 2016 WIE Inspiring Member of the Year Award "for significant leadership and sustained contributions to society through appropriate technology transfer and women empowerment." This is a prestigious award given to one recipient every year who has made an outstanding contribution to WIE, their community, and the engineering community, through their dedication and involvement in projects or activities directed toward fulfilling one or more of the WIE goals and objectives.

Apple sells its 1 billionth iPhone: Apple recently announced that it sold its one billionth iPhone in Jul 2016. The news comes about two years after the company sold the 500 millionth unit of its handheld device. The iPhone was first introduced in 2007 by late Co-founder Steve Jobs and had registered its one millionth sale after 74 days of the launch.

Qualcomm to pay $19mn in sex discrimination suit: Qualcomm has agreed to pay $19.5 million to settle a gender discrimination suit filed on behalf of nearly 3,300 women. According to the lawsuit, women working in research and engineering are paid less than their male counterparts, and are promoted less often. Qualcomm will hire consultants to set diversity policies and ensure their enforcement through compliance officers.

Information Resources

Compiled by
H.R. Mohan
Vice Chairman, IEEE Madras Section
Chief Editor, IEEE MAS LINK
ICT Consultant & Former AVP (Systems), The Hindu, Chennai
hrmohan.ieee@gmail.com

IT Security: DOs and DON'Ts: Security is the responsibility of us all. Follow the tips in this handbook and you'll be helping to keep yourself, your colleagues and our business safe. Security sets us free to do what we do best. It's simple and mostly common sense. Make sure you let your family and friends know what to do too, so they're safe online. https://goo.gl/SQHvg9

IoT Myths And Facts: One of the most trending topics these days in technology sector is the internet of things. But all the so called internet of things facts and predictions are not true. There is an equal amount of myths prevailing often misleading enthusiasts. Here are the most prevailing myths about Internet Of Things you all should know. http://goo.gl/hM1Xgn

Five tech emergency apps you should always carry with you: Be ready for any tech crisis you encounter in the field. These apps will help you cope with a wide range of problems. http://goo.gl/yIn1tR

Five lesser-known Google Apps to make your digital life easier: From a form generator to a trend tracker to a cloud printer app, these free tools will expand your capabilities and save you time and effort. http://goo.gl/GIZJY5

Five unusual apps you never knew you needed: It's easy to overlook some of the strange and obscure offerings in the app stores. But sometimes, these apps are genuinely useful. http://goo.gl/iIJapH

Five diagnostic tools for your portable tech toolkit: When you head out for a job, be sure you take this collection of handy go-anywhere troubleshooting tools. http://goo.gl/wveKmK

How should we compensate poor countries for 'loss and damage' from climate change?: Representatives from dozens of countries will convene at the United Nations April 22 to sign the Paris Agreement on climate change, which commits signatories to lower greenhouse emissions in the years ahead. Written within the document is an article on "loss and damages," the notion of providing aid to vulnerable countries that suffer damages from climate change. This could include loss of species, destruction of infrastructure, loss of land from rising seas or the displacement of people from climate-linked events, such as drought or violent weather events. Although the term "loss and damages" has been bandied about within U.N. climate negotiations since 1992, there has been virtually no public discussion on how to address these issues, which is crucial to confronting climate change in an effective and just manner. How does "loss and damages" relate to other forms of climate aid and what's the most effective way to address it through the U.N.'s Framework Convention on Climate Change (UNFCCC)? And can rich and poor countries come to some sort of agreement on climate-related compensations beyond what has already been committed? http://goo.gl/6ioPrP

Beware! Here's How Public Wi-Fi is Used to Steal Information: Worldwide event on June 20th celebrates the role of wi-fi in our lives, while highlighting the importance of getting everyone connected. Nowadays, free public Wi-Fi's are widely and readily available in larger cities—airports, restaurants, coffee shops, libraries, public transport, hotel rooms, you name it. Of course, we all know jumping on a free Internet connection can be a convenient way to access online accounts, catch up on work, and check emails while on the go. However, the security risks should not be ignored since you could be making yourself an easy target for hackers while putting your information and more at risk. The major hazard with public Wi-Fi is that all the information you're transferring between your computer and the computer that you're accessing is available to everyone on the network. http://goo.gl/4hW0C2

15 Security and Backup Tools for Windows Admins: With these tools, one can set up a single master backup web server, do network troubleshooting and analysis, email archiving, deploy security solutions around networks and more… http://goo.gl/lh0a3c

5 Tools That Let You Post on Social Media Automatically: Social media can be so frustrating because you don't have enough time to complete all the tasks. It can also be quite repetitive. So why don't you automate the repetitive tasks? The social media tools are maturing and getting more useful and there is more automation that is available. Here are 5 time-saving social media automation tools: http://goo.gl/Bf5iOl

Smart 3D Printers: Printers that can print food, dress prototypes, edible sculptures, etc and are accessible over cloud or from mobile devices are completely re-defining the future of printing. Here's a closer look at the available devices. Additive manufacturing now a days has become one of the fastest-growing printing processes that helps virtually make an object appear, generating successive layers of material to create a three-dimensional product. 3D printers are widely used for building prototypes for the medical, aerospace, engineering and automotive industries. http://goo.gl/avMUZz

Smartphone Buying Guide: How to Choose the Right Smartphone Within Your Budget: With the progression of the smartphone industry, gradually more features are continuously being added/upgraded to do multilple tasks, such as to view emails, click and record photos and videos, etc. And with added features there is always a question as to which smart phone should one buy and for what price. There are several aspects to consider while choosing a smart phone. Here's what you should look out for, based on our experience of reviewing phones over the past six months or so. We present you a comprehensive smartphone buying guide to choose for the right smartphone. http://goo.gl/NMM7j7

How to Submit your Website to Google using Webmaster Tools: After creating a new website the first and important step we have to follow is submitting a website to the search engine like Google, to get some organic traffic. The submission of your website in Google is totally free and also a great step in optimizing your site for search engines. In this article, we are going to show how to add your website to Google webmaster Tool. http://goo.gl/Z84mUW

10 Tips to Secure your Android Smartphone: What would happen if you misplace your smartphone or it is hacked or stolen by someone? The security of your smart device should be your number one priority. If you follow the security tips we mention in this article, your Android will become much more secure and reliable. An app from Unknown Sources. http://goo.gl/NSyx7J

Four Ways to Unroot an Android Device: The best thing about Android is that it is open to all kinds of custom development activities. You can improve your device performance, battery life, UI, and default setting by rooting your device. But performing a root on your device may void your warranty, you may not receive OTA updates, or may even turn your device unstable. So if you're ready to take that risk, here's how to unroot an Android device. http://goo.gl/Gkgcf0

10 SEO tools to enhance website performance: Simple and free SEO Tools with a wide variety of uses and covering a number of common needs to Optimize website. http://goo.gl/BZa6QI

Hot to Track a Lost Android Phone or Tablet: There are some vital ways to track the device remotely, even when you haven't installed any tracking app before it gets lost or stolen. http://goo.gl/BgjIv9

Computing gives an artist new tools to be creative: The greatest tool of artists is their imagination but it is limited by their knowledge (try imagining something you don't know). But the diversity computing offers may address this problem. For the creative artist, computers supply three basic tools: access to information, software, and new ways to interact. In 1945, the American engineer and inventor Vannevar Bush predicted a world where: […] all forms of intelligence whether of sound or sight, have been reduced to the form of varying currents in an electric circuit in order that they may be transmitted. Now, information at the click of a finger can expand the artist's imagination, letting them know about the existence of things they may never have found. https://goo.gl/UgZPce

Computing 1-0-1: quantum information in an atom's core: You've heard of quantum computers – they harness the power of atoms and molecules to perform memory and processing tasks; they exist in labs but are still a long way off in practical terms. But maybe they're not as far off as we thought. As published in Nature today, my colleagues and I have established a world-first in this area. We've demonstrated a quantum bit (or qubit) based on the nucleus of a single atom in silicon, promising dramatic improvements for data processing in the ultra-powerful quantum computers of the future. https://goo.gl/92d4bI

From washing machines to computers: how the ancients invented the modern world: True innovation is hard to find, as few things come out of nothing. Take the now ubiquitous selfie, for example. The format may have changed but the concept of making self-portraits is hundreds, if not thousands of years old. The same is true of many inventions that we typically think of as modern, some of which actually have precedents dating back over 1000 years. https://goo.gl/nrejyq

What the world's oldest calculator tells us about the ancient Greeks' view of the universe: When we talk of the history of computers, most of us will refer to the evolution of the modern digital desktop PC, charting the decades-long developments by the likes of Apple and Microsoft. What many don't consider, however, is that computers have been around much longer. In fact, they date back millennia, to a time when they were analogue creations. Today, the world's oldest known "computer" is the Antikythera mechanism, a severely corroded bronze artefact which was found at the beginning of the 20th Century, in the remains of a shipwreck near the Mediterranean island of Antikythera. It wasn't until the 1970s that the importance of the Antikythera mechanism was discovered, when radiography revealed that the device is in fact a complex mechanism of at least 30 gear wheels. https://goo.gl/P64PfG

Magic numbers: the beauty of decimal notation: While adding up your grocery bill in the supermarket, you're probably not thinking how important or sophisticated our number system is. But the discovery of the present system, by unknown mathematicians in India roughly 2,000 years ago – and shared with Europe from the 13th century onwards – was pivotal to the development of our modern world. Now, what if our "decimal" arithmetic, often called the Indo-Arabic system, had been discovered earlier? Or what if it had been shared with the Western world earlier than the 13th century? First, let's define "decimal" arithmetic: we're talking about the combination of zero, the digits one through nine, positional notation, and efficient rules for arithmetic. https://goo.gl/YT1pEl

Machine learning: The smart person's guide: From Apple to Google to Toyota, companies across the world are pouring resources into developing AI systems with machine learning. This comprehensive guide explains what the concept really means. http://goo.gl/Dqlkvl

Raspberry Pi: The smart person's guide: Everything you need to know about the tiny, ultra-cheap computer that has taken the world by storm. http://goo.gl/9GpQRw

Smart cities: The smart person's guide: Rapid urbanization is leading to smarter cities that improve the lives of citizens through technology. This comprehensive guide details the important aspects of a smart city. http://goo.gl/sw6euX

Windows 10: The smart person's guide: This comprehensive guide covers must-know Windows 10 details, like features, system requirements, upgrade options, and Microsoft's Windows-as-a-service strategy. http://goo.gl/6vR4tY

Cyberwar: The smart person's guide: Armies around the world are gearing up for cyberwarfare: here's what it is and what you need to know. http://goo.gl/tHB6dd

Review: Nature India Annual Volume 2015: The 'Nature India Special Annual Volume' is a compendium of science coverage in India as seen through the eyes of Nature India over the year. These compendia are multi-disciplinary, covering Biotechnology; Cell & Molecular Biology; Chemistry; Clinical Medicine; Computing; Developmental Biology; Earth and Environment; Ecology and Evolution; Genetics; Materials; Neuroscience; Physics; and Space & Astronomy. This compendium have handpicked science & technology news and features, research highlights, commentaries, policy features, career articles and interviews with some leading lights of Indian Science. With Science, Engineering and Technology principles are complementing each other and are applied in various R&D initiatives and product developments, it is a must have volume for anyone interested in India's Science, R&D scene and the latest career and industry trends. An exposure to Science R&D to the engineering & technology students will go a long way in the collaborative research. This issue of the Nature India Annual Volume 2015 is the third in the series of annuals and is priced at Rs. 500/- and one can get the copies by contacting Sonia Sharma at Sonia.Sharma@nature.com

Forthcoming Events

Events Technically Sponsored by Madras Section and Madras Section Societies

2016 International Conference on Communication and Electronics Systems (ICCES); 21-22 Oct 2016 at PPG Institute of Technology, Coimbatore. confyy.com/events/icces.php#

2016 International Conference on Engineering and Technology (ICET); 16-17 Dec 2016 at karpagam college of Engineering, Coimbatore. www.oicget.com

2016 IEEE International Conference on Computational Intelligence and Computing Research (ICCIC); 15-17 Dec 2016 at Agni College of Technology, Chnannai. http://itfrindia.org/2016ICCIC/

2016 International Conference on Design and Manufacturing (IConDM); 16-17 Dec 2016 at Indian Institute of Information Technology, Chennai. www.iiitdm.ac.in/icondm16/callfor

2017 11th International Conference on Intelligent Systems and Control (ISCO); 5-6 Jan 2017 at Karpagam College of Engineering, Coimbatore. www.kceisco.com

2017 International Conference on Computer Communication and Informatics (ICCCI); 5-7 Jan 2017 at Sri Shakthi Institute of Engineering and Technology, Coimbatore. http://www.iccci.in/

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

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

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

Events Financially Sponsored by Madras Section

Seminar on " Techniques for Increasing User Quality and Network Capacity in Future 5G Mobile Networks"; 14 -15 Jul 2016 at Hindustan college of Engineering and Technology, Coimbatore.

IEEE Coimbatore Hub Congress 2016. 30-31, Jul 2016 at at Jansons Institute of Technology, Coimbatore. Contact: elangoprt@gmail.com

Other Events

IEEE AP-S Madras Chapter is organizing a one day Seminar and Poster session on "Recent Advances in Antenna Technologies & Applications" at Karunya University, Coimbatore on 8th July 2016. https://drive.google.com/file/d/0B6SVspbG0fHbR05pbHpER3ZqVGc/view?usp=sharing

IEEE WIE Global Summit 2016 at Bangalore on 24th Aug 2016. Early bird rates are available up to June 25, 2016. http://wiesummit.ieeer10.org/

IEEE R10 Student/YP/WIE/LM Congress 2016. 25-27 Aug 2016 at Bangalore. http://sywlcongress.ieeer10.org

ADCOM-2016: The Advanced Computing and Communications Society (ACCS) in association with the PES University, Bangalore, announces the 22nd annual International Conference on Advanced Computing and Communications on the theme Machine Learning Applications at Bangalore during 8-10 Sep 2016. This event is technically so-sponsored by IEEE Bangalore Section. http://accsindia.org/category/adcom-2016/

ISC2-2016: 2016 IEEE International Smart Cities Conference. The flagship conference of the IEEE Smart Cities Initiative, ISC2 will be held in Trento, Italy, 12-15 Sep 2016 and will foster plenary discussions and collaboration between all entities involved in planning and implementing successful smart cities. http://events.unitn.it/en/isc2-2016 .

IEEE ProComm during 2-5 Oct 2016 at Austin, Texas. Theme: Communicating Entrepreneurship and Innovation. http://sites.ieee.org/pcs/procomm2016/

All India Student-Young Professionals-WIE Congress 2016 (AISYWC), 7-9 Oct 2016 at LNM Institute of Information Technology, Jaipur Rajasthan. Kindly register on or before 7th August, 2016. www.aisywc.in

The 5th IEEE Global Conference on Consumer Electronics (GCCE 2016) ; October 11-14, 2016 at Kyoto, Japan http://www.ieee-gcce.org/2016/index.html

IEEE International Forum on Smart Grids for Smart Cities (SG4SC) that will be held October 16-18, 2016 at Paris, France. http://www.ieeesg4sc.org/

2016 IEEE International Symposium on Technology and Society (ISTAS 2016) on the theme Disruptive Technologies, Ethics and Global Development. 21-22 Oct 2016, Trivandrum, Kerala, India http://istas2016.org/

7th International Conference on Transforming Healthcare with IT 2016 is being held on 21-22 Oct 2016, ITC Chola, Chennai along with 21st annual conference of ISfTeH (International Society for Telemedicine and eHealth). As the IEEE Computer Society, Madras Chapter is a supporting organisations of this conference, a discount of 15% is applicable on the registration fee to the members of IEEE. While registering for the event pl. enter the discount code as DISCIEEE. http://www.transformhealth-it.org/

BIBE-2016: The 16th annual IEEE International Conference on Bioinformatics and Bioengineering. Oct 31-Nov 2, 2016, in Taichung, Taiwan http://bibe2016.asia.edu.tw

The IEEE Intelligent Transportation Systems Conference IEEE ITSC 2016. 1-4 Nov 2016 at Rio de Janeiro, Brazil. https://web.fe.up.pt/~ieeeitsc2016/

TENCON-2016: TENCON is a premier international technical conference of IEEE Region 10, which comprises 57 Sections, 6 Councils, 21 Subsections, 514 Chapters and 1159 Student Branches in the Asia Pacific region. The theme for TENCON 2016 is Technologies for Smart Nation and it will be held in Singapore from 22-25 Nov 2016. Last date for paper submission: 30 May 2016. http://www.tencon2016.org

PEDES 2016: IEEE International Conference on Power Electronics, Drives and Energy Systems, 14-17 Dec 2016, Trivandrum, Kerala, India. www.pedes2016.org

International Conference on Smart Cities (ICSC'16) at RGM College of Engineering and Technology (autonomous), Nandyal, Andhra Pradesh, India during 15-17 Dec 2016. Last date for paper submission: 15th Sep 2016 http://rgitnandyal.com/ICSC16/

INDICON-2016: 16-18 Dec 2016 at Bangalore. Paper Submission Last Date: 16-Jul-2016. http://www.indicon2016.in

IEEE Bombay Section Symposium-2016 (IBSS-2016). 21-22 Dec 2016 at Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering & Technology, Baramati. http://ibss2016.ieeebombay.org/

9th International Conference on Trends in Industrial Measurements and Automation -TIMA 2017 during 6th,7th & 8th - January, 2017. Last date for paper submission is 15th Nov 2016. http://tima2017.org/

Announcements

Workshop on 'The Art of Persuasion'

IEEE Region 10 Young Professionals along with IEEE Madras Section and IEEE PCS Madras will be organising the above workshop with Mr. Anson Ben, Founder – WinnersOrbit as resource person. The participants will learn the Secrets to Persuasive Conversations, Powerful Presentations and Cracking any Interview in this workshop. The key elements the workshop will cover: 1. Persuasive Conversations and Presentations; Answering the Most Common Questions in an Interview; and 3. Research About Interviewing Companies. Pl. await for the formal communication.

ICT Quiz

The IEEE Computer Society Madras Chapter along with IEEE PCS will be organising a ICT Quiz completion as a part of the celebration of the 70th anniversary of IEEE Computer Society. The Quiz will be held in six/seven regional centers covering a cluster of student branches. The tentative clusters will include: Chennai, Vellore, Salem+Namakkal+Tiruchengode+Erode, Coimbatore, Tirunelveli+Nagarkoil+Kanniyakumari, Madurai, Trichy. A student branch can nominate up to 3 teams of two students each. While the top three regional winners will get cash prizes, the toppers only will participate in the finals which will be held at Chennai. Attractive prizes for the winners and Certificate of participation to all team members are planned. We are looking for SBs in the proposed clusters to come forward to host the Quiz. The host SB will be suitably recognized by IEEE CS & IEEE PCS. While the formal announcement regarding the Quiz will be made soon, the SBs interested to host the regional Quiz may pl. email to hrmohan.ieee@gmail.com   OR sakthi_velp@yahoo.com

IEEE PCS Workshops

IEEE PCS Madras Chapter proposes to organize a series of workshops covering Career and Communication Skills, Employability, Interviewing techniques, Resume Preparation, SOPs for Higher Studies at various student branches. These workshops will be for duration of about four hours in two sessions of two hours each. The SBs interested in organising these workshops may pl. email their interest to hrmohan.ieee@gmail.com plan the series.

IEEE Day 2016 Celebrations

The IEEE Day 2016 at Madras Section will be celebrated in Oct 2016. In this connection, all the student branches are requested to organize events/activities to popularize the vision and mission of IEEE in localities in and around their SBs and send us a detailed report. The SBs organized the best activity will be recognized at the IEEE Day. All members are requested to send their suggestions with regard to the celebrations and events to be organized during the one day IEEE Day Celebrations to be held at Chennai. Pl. send them by email to ieeemas@gmail.com with subject "IEEE Day 2016 suggestions".

vTools Events

The IEEE HQ will be launching the new version of vTools Meetings which will be re-branded as vTools Events to better identify with the meetings and activities that are included. This new, more intuitive look and feel, provides many new features and enhancements which include: Home Page with a global view of all events; Enhanced event search option; Redesigned event creation form; Easier interface for event reporting; More intuitive event registration setup; and More help text. http://sites.ieee.org/vtools/

HQ funding, awards & competition announcements

Call for MGA Awards nominations: deadline 15 October.
http://www.ieee.org/societies_communities/geo_activities/awards/nomform_award.html

Call for proposals: IEEE Humanitarian Activities Committee project funding in 2016: deadline 15 August.
http://files.ctctcdn.com/68d33b8c301/3d92f669-ead8-4e20-9a96-3655e0bb500d.pdf?ver=1469651498000.pdf

IEEE SIGHT Project Funding: http://files.ctctcdn.com/68d33b8c301/1774e4b4-8346-4a67-b797-53191aa5141e.pdf

IEEE Maker Project competition: deadline 17 September. http://transmitter.ieee.org/makerproject/

Details of Funds transferred from IEEE HQ to IEEE Student Branches through Madras Section from January 2016 to June 2016

Sl. No.	College Name	Amount (Rs)	Remarks
1	PSNA College of Engineering & Technology	62,261	EMB Society funding
2	Sri Krishna College of Engineering a Tech	33,235	RAS Start-Up Chapter Grant
3	Jeppiaar Engineering College	31,573	PES High Performing Student Branch Chapter Program (HPSBCP)
4	Jeppiaar Engineering College	13,554	R10 SB Web Contest 3rd Prize Award
5	K.S. Rangasamy College of Technology	67,300	EMBS Chapter Activity Funding
6	Kongu Engineering College	49,454	STB funding for 2015 (Rebate)
7	Panimalar Institute Of Technology	15,554	STB funding for 2015 (Rebate)
8	Easwari Engineering College	8,641	STB funding for 2015 (Rebate)
9	M Kumarasamy college of Engineering	34,299	STB funding for 2015 (Rebate)
10	St. Joseph institute of f technology	17,282	STB funding for 2015 (Rebate)
11	Thiagarajar College of Engineering	16,485	STB funding for 2015 (Rebate)
12	St. Xavier Catholic College of Engineering	37,622	STB funding for 2015 (Rebate)
13	Sri Sivasubramaniya Nadar College Of Engineering	33,767	STB funding for 2015 (Rebate)
14	Sri Muthukumaran Institute of Technology	17,016	STB funding for 2015 (Rebate)
15	Mepco Schlenk Engineering College	6,115	STB funding for 2015 (Rebate)
16	St. Joseph College of Engineering	20,872	STB funding for 2015 (Rebate)
17	Jeppiaar Engineering College	33,900	STB funding for 2015 (Rebate)
18	Karpagam College of Engineering	63,412	STB funding for 2015 (Rebate)
19	Karpagam College of Engineering	7,268	STB funding for 2013 (Rebate)
20	VIT University, Vellore	50,475	2016 EDS Chapter subsidy for the ED Vellore Inst. of Technology SBC
21	VIT University, Vellore	33,650	IEEE IAS starting subsidy - VIT University Chapter
22	VIT University, Vellore	1,00,950	MTT-S Chapter Funding - VIT University - IEEE MTTS SBC
23	Jeppiaar Institute of Technology	13,460	WIE Funding for student branch
24	Saveetha School of Engineering	10,095	R10 WIE Support Fund
25	St. Joseph College of Engineering	87,490	APS Annual Support for 2016
26	Dr. Sivanthi Aditanar College of Engineering	16,147	STB Funding - 2015 (Rebate)
27	S.A. Engineering College	13,456	Initiative Funding for WIE
28	St. Joseph's Institute of Tech.	13,456	Initiative Funding for WIE

E-commerce to create 12 millio jobs in 10 years: Around 12 million jobs will be created in India's e-commerce sector over the next 10 years, according to an HSBC study. It also estimated that the number of people employed in e-commerce will grow by 700% by 2020. About 70% of those jobs will be in logistics and delivery, while the remaining will be in customer care, IT, and management.

Financial Assistance to SBs in 2016

The following SBs received financial support from the Section to organize events.

- Panimalar Engineering College - Rs. 5000.00
- Sri Ramakrishna Engg College – Rs. 12500.00
- National Engineering College – Rs. 5000.00
- Sri Krishna College of Engineering & Technology – Rs. 15000.00
- Selvam College of Technology – Rs. 7500.00
- Saveetha University – Rs. 5000.00
- Kongu Engineering College – Rs. 17500.00
- Madras Institute of Technology – Rs. 7500.00
- St. Peters College of Engineering & Technology – Rs. 7500.00
- KLN College of Engineering – Rs. 12500.00
- Prathyusha Institute of Technology -- Rs. 15000.00
- Hindustan College of Engineering & Technology – Rs. 5000.00
- Ganadipathy Tulsi's Jain Engineering College – Rs. 5000.00
- SSN College of Engineering – Rs. 17500.00
- Dr Sivanthi Aditanar College of Engineering – Rs. 5000.00
- Rajalakshmi Engineering College – Rs. 5000.00
- Kumaraguru College of Technology – Rs. 10000.00
- Kings College of Engineering – Rs. 7500.00

IEEE Madras Section membership status as on 1st Jul 2016

Affiliate	14
Associate Member	52
Fellow	4
Graduate Student Member	624
Life Member	5
Life Senior	11
Member	1972
Senior Member	171
Student Member	3489
Total	6342