

## IEEE Madras Section Events

### Annual Meet



The IEEE Madras Section Annual Meet was held on 9<sup>th</sup> Feb 2019 at the Koodal Hall, Anna University, Chennai. About 125 members attended the Annual Meeting.

Dr. P.A. Manoharan, Section Chair, welcomed the gathering and provided an overview and the highlights of the section activities during the year 2018. He thanked all the members for extending their support for successful conduct of the section activities.

Dr. T. Micheal N. Kumar, Secretary, presented the Secretary's Report for the year 2018, explaining 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. V. Jayaprakash, Treasurer, presented the audited financial report for the year 2018 which was also approved by the general body. The members were informed that the audited accounts will be finalized as at March 31st 2019 and will be presented to the members during the Annual General Body Meeting subsequently.

Mr. C.R. Sasi, Chief Guest, Dr. P.A. Manoharan, Chairman, IEEE Madras Section and Dr. S. Salivahanan, Ombudsman, IEEE Madras Section presented the cash awards and certificate of appreciation to the best activity performing student branches and the student branches with largest numbers of members and to the student branches hosting the sections events like FDPs, technical activities and best performing section society chapters and affinity groups.

Dr. P.A. Manoharan, Chairman, IEEE Madras Section, introduced the new Execom Members to the members at the Annual Mee. The Secretary, Dr. T. Micheal Kumar proposed the vote of thanks.

The Annual Meet photos are shared in the out web site: <https://www.ieeemadras.org/ieee-agm/>

### Cluster Meetings

IEEE MAS formed clusters with IEEE Society Chapters and organised technical talks. Three such cluster meetings were organised and brief reports are presented below:

#### Cluster I



The IEEE Madras Section organized Symposium Cluster 2019 in association with societie chapters of EMBS, RAS, CIS and EDS on 24.01.2019 & 25.01.2019. The symposium was inaugurated by Dr. Vijay K Varadhan, Distinguished Professor, University of Arkansas, US. Dr. P.A. Manoharan, Chairman, IEEE Madras Section, presided and delivered the presidential address. Dr .N .R. Alamelu, Principal, Sri Ramakrishna Engineering College, Coimbatore welcomed the gathering.

Dr. Vijay K Varadhan, spoke about Wearable Device for Heart Health monitoring. The session was very interactive. Dr Thyagarajan R, IIT Madras, delivered a presentation on "Underwater Robotics -- Challenges in design and control". Dr. B. Banu Rekha, Assistant Professor (Sr.), Department of Biomedical Engg., PSG College of Technology, Coimbatore, gave a talk on "Introduction to Health Care Analytics. Dr. P. Ganeshkumar, Associate Prof., University College of Engineering, Coimbatore, talked on "Bio-Inspired Algorithms for Engineering Optimization". Dr. S. Balamurugan, Associate Prof.,

Amirtha University, Coimbatore, gave a lecture on “Intelligent Control for Power System Operation”. It was followed by a talk on “Solid State Semi-Conductor Devices Recent Trends” by Dr. D. Nirmal, Associate Professor, Dept. of ECE, Karunya Institute of Technology and sciences, Coimbatore. .:

The two day session was very interesting and informative to the students, faculties and research scholars . The event was ended with the Vote of Thanks by Mr. K. Balamurugan, IEEE SB Counsellor, Sri Ramakrishna Engineering College, Coimbatore.

## Cluster II



The IEEE Madras Section MASSYMP-CL-2 was organized on 07.02.19 at Alumni Center, College of Engineering, (Anna University) Guindy, Chennai. Mr. S. Sunderash, Vice-Chairman, IEEE Madras Section welcomed the gathering. The Section Chairman, Dr. P. A. Manoharan introduced the Chief Guest, Mr. C.R. Sasi, Former Chairman, IEEE Madras Section who inaugurated the MASSYMP-CL-2 and addressed the gathering.

Students, Research Scholars, Faculties of various colleges participated in this program. There were around 45 participants. The first session was on Carbon Nanotubes And Reduced Graphene Oxide Composites for Energy Applications by Prof. Sundara Ramaprabhu, Professor, Department of Physics, IIT Madras, Chennai. The second session presentation was by Ms. M. Akila, SSN College of Engineering. Dr. Uday K. Khankhoje, Assistant Professor, Dept. of EE, IIT Madras, Chennai delivered a talk on “Signal Processing meets Maxwell’s Equations: Microwave based breast cancer imaging”

IEEE-PELS, Madras Section organized a session on, “Design and Fabrication of Electric Vehicle using Brushless DC Motor Drive”.by Dr. A. Bharathi Sankar, Post Doctoral Fellow, Centre for Nano materials, International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI),, Hyderabad. This session focused on the basics of electric vehicle and the application of solar energy to power up the electric vehicle. The fabrication of electric vehicle employing BLDC motor was discussed in detail. The talk focused on the design, simulation and implementation of the various components of the solar based electric vehicle namely: solar panel, charge controller, battery, dc-dc boost converter, dc-ac power converter (Inverter Circuit) and BLDC motor. It also gave a thorough understanding of batteries employed for EV. A glimpse of lead acid and lithium ion battery was put forth to the participants. Technical specifications of prototypes of electric bicycle, tricycle and four-wheeler were exposed to the student participants. This was followed by an interactive session with respect to the selection of batteries, electric motors and controllers for EV were discussed enthusiastically by the student and research scholars.

The last session talks were delivered by Dr. N. Hema, Professor, English, Rajalakshmi, and Dr. S. Raja, Associate Professor, CSE, Vel Tech University on “ Career Resources & Recognition, Professional Communication : Professional Practices and Managing a Professional Network” The event ended with a valedictory session..

## Cluster III



IEEE Madras Section Event of Cluster – 3 (MASSYMP-CL-3) was held at Thiagarajar College of Engineering (TCE) among various IEEE Societies (Such as MTT, IT, ComSoc) on 9th March 2019 as a part of IEEE SB activities in TCE organized by IEEE Madras Section. The goal of this program is to ensure the growth of skills and knowledge among professionals and to foster individual commitment to continuing education among the IEEE members, the Engineering and Scientific Community and the general public.

The participants of this one day event were the students, student members of IEEE, Research Scholars and faculty members from various colleges numbering about 50. At the inaugural session, Chief Guest Dr. V. Abhaikumar, Principal, Thiagarajar College of Engineering and Chair, IEEE Microwave Theory and Techniques Society, Madras delivered the presidential address.

Mr. Rajendran Venkataramasubbu, CEO, Adroit Soft India Private Ltd, Chennai took part in the inaugural session along with Prof D Vijendra Babu, Vice Principal, Aarupadai Veedu Institute of Technology, Chennai. The first inspirational session on Blockchain Architecture was delivered by Mr. Rajendran Venkataramasubbu. The next session was on Cloud

based repository for snapping document taken by Dr. Padmavathi. The session was very detailed one, starting from the basics (what are data centres, cloud etc.). The live demonstration by the staff was interesting.

In a presentation session on 5G communications, Dr. Vijendra Babu, was the speaker and gave additional information about 5G. The next interactive session was handled by Dr. Mrs. Raju who had discussed about antennas in 5G, the advantages and real live problems in the design part of antenna in 5G. The last session on “Wireless radios for IoT applications” was handled by Dr. Deepak Ramprasath, Vice President R&D, Thiagarajar Telecom Solutions, Madurai. He had stimulated the students by arising many questions towards them. He explained the concept of IoT with real life applications. Finally, the symposium ended up with a valedictory address by Dr. B. Manimegalai, Professor, Member, IEEE Antennas and Propagation Society. Overall, the symposium was informative.

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## The 10 business phrases most likely to make you scream

- Touch base offline (let's meet and talk)
- Blue-sky thinking (creative ideas free from practical constraints)
- Punch a puppy (do something detestable but good for the business)
- Thought shower (to come up with several ideas)
- Thinking outside the box (thinking creatively and innovatively)
- It's on my radar (I'm aware of it)
- Close of play (the end of the day)
- Singing from the same hymn sheet (all in agreement)
- Peel the onion (to examine a problem in detail)
- To wash its own face (to justify or pay for itself)

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## Did You Know These Things Had Names?

- The space between your eyebrows is called a glabella.
- The way it smells after the rain is called petrichor.
- The plastic or metallic coating at the end of your shoelaces is called an aglet.
- The rumbling of stomach is actually called a wamble.
- The cry of a new born baby is called a vagitus.
- The prongs on a fork are called tines.
- The sheen or light that you see when you close your eyes and press your hands on them is called phosphenes.
- The tiny plastic table placed in the middle of a pizza box is called a box tent.
- The day after tomorrow is called overmorrow.
- Your tiny toe or finger is called minimus.
- The wired cage that holds the cork in a bottle of champagne is called an agraffe.
- The 'na na na' and 'la la la', which don't really have any meaning in the lyrics of any song, are called vocables.
- When you combine an exclamation mark with a question mark (like this ?!), it is referred to as an interrobang.
- The space between your nostrils is called columella nasi.
- The armhole in clothes, where the sleeves are sewn, is called armscye.
- The condition of finding it difficult to get out of the bed in the morning is called dysania.
- Unreadable hand -writing is called griffonage.
- The dot over an “i” or a “j” is called tittle.
- That utterly sick feeling you get after eating or drinking too much is called crapulence.
- The metallic device used to measure your feet at the shoe store is called Bannock device.