

Message from the Chairman



Dear Members,

Season's Greetings

Once again Chennai has a bout of the effects of climate change – cyclone Vardha, which has made Chennai almost a bare land. All the trees which were nurtured by many in the past many years were razed to the ground within no time. The removal of trees in one stroke will have far reaching consequences in the weather conditions of Chennai for the past many years.

As IEEE members we should try to organize some societal events to protect the trees at least in future from such mishaps. There are many ways of supporting them with the already available logs from the fallen trees, which could prop up the ones which are still healthy, in a permanent manner so that in the unfortunate event of such nature in the future, it will be saved. We should have a program to educate the youngsters in this line and also plan a tree planting drive in selected areas. Interconnecting trees appropriately will also help in sustaining them. These are regularly practiced in foreign countries successfully.

Coming to the events taken up by colleges, I appreciate the enthusiasm of the students and the faculty guiding them. I would like to reiterate that India stands second only to the United States in the membership count. But our visibility is far from being the second in the world. Countries like Japan, Korea, Australia, which have far less number of members are shining high as far as visibility is concerned. I hence once again request you all to take up new and challenging activities in your area of interest and bring our chapter and thus our region to top level. Those of you, who have already taken up many activities, please volunteer for positions in IEEE at various levels. Also, as indicated in my earlier newsletters, apply for appropriate awards, which are in plenty at IEEE.

The Annual Meet and awards function of the IEEE Madras Section for the year 2016 is being planned in the 1st week of Feb 2017 and I personally invite all the members to make it a point to attend and provide your feedback for improving our activities in the forthcoming years. I urge all the Student Branches, Society Chapters and Affinity Groups to submit their activity reports for the year 2016 to facilitate the consolidation of the Section report and decide on various awards to the Section OUs.

Before concluding I would like to wish you all a Happy and Prosperous New Year ahead – 2017, wherein let all your dream projects and aspirations come true.

Till next time,

Yours voluntarily

M A Atmanand

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

Message from the Chief Editor



Dear Members,

IEEE MAS LINK is happy to present the 4th print edition for the year 2016. The multifarious activities of the SBs, SCs and AGs are published as a list with reference to the detailed reports in the respective monthly electronic edition of LINK. Along with the Information Resources, Useful IEEE Links, and few announcements are also included.

This print edition is based on the electronic editions of Oct 2016, Nov 2016 and Dec 2016 at <https://goo.gl/QjVcCHK>.

LINK congratulates Mr. H. R. Mohan and Dr. N. Kumarappan for receiving the Certificate of Recognition from the IEEE Member Recruitment and recovery committee recognizing for outstanding achievement in member retention for the Madras Section during the 2016 membership year based on the Section's four year performance.

IEEE membership renewal for the year 2017 is due now. We request all our existing members to renew their membership in time and also consider becoming member of technical societies of their interest. We also request the SBCs to encourage the students to join the IEEE.

2017 promises to be an exciting year for IEEE, with several conferences and impactful events or initiatives. The IEEE R10 Section Congress along with the Golden Jubilee is scheduled at Sydney from 11 to 13 August, 2017.

We look for contributions from all to make the MAS LINK a sought after publication from the Section. While doing so, pl. adhere to the reporting guidelines at <https://goo.gl/bYB44p>.

As you are aware that MAS LINK issues are archived for reference in a shared folder at <https://goo.gl/QjVcCHK>

We are sure that you will enjoy reading this print edition of IEEE MAS LINK. Please provide your valuable feedback for improvement. Send your feedback by email to ieeemaslink@gmail.com

With regards

H.R. Mohan

IEEE Madras Section Annual Meeting - 2016

IEEE Madras Section cordially invites all its members for the IEEE Madras Section Annual Meeting – 2016 at Chennai.

Date & Time : Sunday, 5th Feb 2017:: 4.00 p.m. to 7.00 p.m.

Venue : TAG Auditorium, Anna University, Chennai – 600025

Agenda:

- Welcome Address by Chairman
- Presentation of Secretary's Report
- Presentation of Treasurer's Report
- Presentation of Awards to SBs, SCs, AGs and others
- Installation of New Office Bearers
- Vote of Thanks

The meeting will end with dinner.

Members desirous of participating in the IEEE Annual Meeting - 2016 are requested to pre-register at <https://goo.gl/UU8DBi> to facilitate logistics.

Karpagam College of Engineering, Coimbatore



1st Sep, 2016: Organized Skill development programme on CNC Programming Techniques and Practice

3rd Sep, 2016: Organized motivation programme, Get Aboard

3rd Sep, 2016: Skill development programme on Additive Manufacturing was organized

6th Sep, 2016: Seminar on “Biomechanics” was organized

8th Sep, 2016: Organized Skill development programme on Injection moulds and Blow moulds

11th Sep, 2016: Conducted a Seminar on Vulnerability of IoT

13th Sep, 2016: Organized a lecture on “Advanced Composites”

13th Sep, 2016: Skill development programme was organized

15th Sep, 2016: Organized Skill development programme

16th Sep, 2016: Research meet on Deep Learning was arranged

17th Sep, 2016: Arranged National level seminar on “Semiautomatic Transmission”

17th Sep, 2016: Organized a night workshop on Internet of things with Raspberry pi

19th Sep, 2016: Organized a national level one day workshop on Embedded System Design for Internet of Things.

20th Sep, 2016: Organized CAD quiz

20th Sep, 2016: Workshop on IC Engines Assembling and Dismantling was arranged

21st Sep, 2016: Organized workshop on Industrial automation electronics and control

24th Sep, 2016: Organized Personality Development for the new age

24th Sep, 2016: Seminar on Internet of Things was arranged

26th Sep, 2016: Organized Seminar on Advanced Embedded Systems Design

27th Sep, 2016: Motivation programme “Keep moving Forward” was arranged

29th Sep, 2016: Lecture on Multi Dimension Big Data Analytics was delivered

30th Sep, 2016: Organized awareness on “Intellectual Property Rights”

2nd Oct, 2016: Seminar on ANN was arranged.

4th Oct, 2016: Organized a workshop on Object Oriented Programming Systems

6th Oct, 2016: Workshop on Java Programming

6th Oct, 2016: Organized a seminar on Smart Material Technology

8th Oct, 2016: Organized a workshop on Virtual Reality

14th Oct, 2016: Organized a seminar on Communication Network Design

14th Oct, 2016: Organized a seminar on Embedded Web Technology

15th Oct, 2016: Workshop on Virtual Instrumentation Using LabVIEW was organized

21st Oct, 2016: Hosted Ephany, an initiative of E-Cell, NIT Trichy for the Coimbatore region

22nd Oct, 2016: Seminar on Advanced Electronics was organized

23rd Oct, 2016: Organized seminar on Night Vision Technology

24th Oct, 2016: Organized a workshop on Solar Tower Technology & Organized a workshop on Cyber Security.

1st Nov, 2016: Seminar on Java Ring was organized

7th Nov, 2016: Organized a seminar on Bioinformatics

10th Nov, 2016: Organized a seminar on Magnetic Field Sensors

15th Nov, 2016: Seminar on Reinforced Concrete Corroded Columns was arranged

16th Nov, 2016: Organized a workshop on Intelligent Transport System

22nd Nov, 2016: Workshop on Centrifugal Casting Processon.

*For Additional Information: Page 12 in LINK 1610
Page 6 in LINK 1611 & Page 4 in LINK 1612*

IEEE Information Theory Society Madras Chapter

6th Oct 2016: Test your programming skills - C programming” competition was organized.

28th Nov, 2016: Awareness programme for school students on the topic, “Scientific truth” was held.

*For additional Information: Page 21 in LINK 1611
Page 3 in LINK 1612*

Veltech Dr. RR & Dr. SR University, Chennai

8th & 9th Sep, 2016: Organized a two-days National Level Workshop on “Networking, Routing and Switching Concepts: A Closer Look”

26th to 30th Sep, 2016: Five-days National Level Workshop on “Data Analytics using R Programming” was organized

30th Sep, 2016: IEEE Professional Communication Student Branch Chapter was inaugurated, IEEE Quiz and revival of IEEE Computer Society Student Chapter was done



22nd Oct, 2016: Organized IEEE Xtreme Programming Competition

21st and 22nd Oct, 2016: Organized the IEEE Madras Section Student Paper Contest (IEEE MAS-SPC2016)

For Additional Information: Page 20 in LINK 1611

IEEE Madras Section SIGHT

3rd Sep, 2016: One-day programme on “Creative Design of LED Lights” was organized

Aug 2016: Assigned Bio Toilet to Artisanal Deep Sea Fishing Boat to the team led by Sherlin Jesudhas, Government College of Engineering, Tirunelveli. From Aug 2016

26th -30th Jun 2016: “Technology for All’ summer camp held

29th Oct 2016: Organized a small programme at Eathamozhy, Nagercoil for giving coconut tree climbing training to ACET students and also for giving a pair of coconut tree climbing equipment to them.

*For Additional Information: Page 38 in LINK 1610
Page 22 in LINK 1611*

Panimalar Institute of Technology, Chennai

2nd Sep, 2016: Organized a Lecture on Visualization

5th Sep, 2016: Celebrated Teacher’s Day

6th Sep, 2016: Organized Innovation Fair event

7th Sep, 2016: One day seminar about Women Safety was conducted

7th of Sep, 2016: Organized Technical quiz contest

8th Sep, 2016: Circuit Debugging Contest was organized

9th Sep, 2016: Organized Mobile Application Development contest

9th Sep, 2016: Conducted Paper Presentation Contest

12th Sep, 2016: Conducted Poster Presentation Event

Jul to Sep, 2016: Conducted short term course on PCB design and Antenna Design - Simulation tool using HFSS

Aug to Sep, 2016: Arranged outreach programs at various schools in and around Chennai.

10th Sep, 2016: Hosted the preliminary level contest SS12 Project Contest

13th Sep, 2016: ADZAP program was organized

15th Sep, 2016: Organized the How to crack group discussion event

16th Sep, 2016: Organized the seminar on Solar energy

20th Sep, 2016: Organized a seminar on “Drones delivery in India”

21st Sep, 2016: Conducted a Group Discussion on the topic, “Is Automation a Boon or a Bane?”

21st Sep, 2016: Organized a lecture on Modern Trends in Digital Communication Systems

21st Sep, 2016: Conducted a Debate on Job vs Entrepreneurship

23rd Sep, 2016: Organized the two days' workshop on Anticipation and Creating Awareness on Early Diagnosing of cancer among Women

23rd Sep, 2016: Celebrated Engineer's Day

24th Sep, 2016: Marked the inception of the IEEE Computational intelligence Society chapter

26th Sep, 2016: Organized the DILIGENCE 16

14th Sep, 2016: Arranged motivational lecture for first year students.

Jul to Sep, 2016: Conducted a Toastmasters Youth Leadership Program

19th to 21st Sep, 2016: Organized a three-days placement training programme

28th Sep, 2016: Organized an invited talk on Introduction to EDC, Stock Market & Finance, motivational speech, An Introduction to “Cleantech – Cause a change” Program and talk on “Me, Myself and My Ambitions”

29th Sep, 2016: Organized a one day workshop on “Proteus Software”

30th Sep, 2016: Project Expo Contest and a Seminar on “How to face the interview” were arranged

7th Oct, 2016: Organized a seminar on “Applications of Robotics in Combat Vehicles”



14th Oct, 2016: Organized a ICT Quiz Regional Orals, inaugural function of IEEE Electron Devices Society and Distinguished Lecture Programme on Electronic Devices: A new perspective.

31st Oct, 2016: Talk on “How to survive as an Electrical Engineer” was delivered

4th Nov, 2016: NEN orientation programme was arranged

9th Nov, 2016: Organized One -day Seminar on “Research Methodologies”

14th Nov, 2016: Inauguration of IEEE- information theory society

14th to 15th Nov, 2016: Organized a Two days FDTP on CS6004 – Cyber Forensics”

17th & 18th Nov, 2016: Organized a Second National Level Workshop on Network Simulation Tools

22nd Nov, 2016: Conducted an IEEE office bearers meeting

23rd Nov, 2016: Conducted work shop on Computer Networks and Fundamentals of computing

26th Nov, 2016: Students of CSE stood fifth and recd. a cash prize of Rs. 1500, memento & certificate at ICTQuiz Finals at Anna Univ., Chennai

21st – 28th Nov, 2016: Organized FDTP on “EE6402 Transmission and Distribution”

*For Additional Information: Page 21 in LINK 1610
Page 11 in LINK 1611 & Page 7 in LINK 1612*

Knowledge Institute of Technology, Salem



- 1st Sep, 2016: Organized hands on training on 555 timer design.
- 2nd Sep, 2016: Organized hands-on training on Port Mapping concepts in Verilog HDL
- 3rd Sep, 2016: Arranged hands-on training on 555 timer design by Mr. Y. Shangarnithi, Project Engineer Wipro Technologies Bengaluru
- 6th Sep, 2016: Organized hands-on training on Port Mapping concepts in Verilog HDL
- 10th Sep, 2016: Organized alumni interaction meet
- 13th Sep, 2016: Held Workshop on Control Area Networks & Serial communication
- 14th Sep, 2016: Organized a seminar on 'The importance of Signal processing in Bio-medical field'
- 15th Sep, 2016: National level technical symposium was arranged.
- 16th Sep, 2016: Organized hands on training on 555 timer design
- 21st Sep, 2016: Hands-on training on 555 timer design was organized
- 30th Sep, 2016: Organized Science expo.
- 11th Oct, 2016: Spectrum Analysis talk was delivered on the topic "New way to Control Heat in 2D Materials"
- 12th Oct, 2016: Delivered Spectrum Analysis talk on "TurtleBot-3".
- 13th Oct, 2016: Organized a Spectrum Analysis talk on the topic "Zcash"
- 14th Oct, 2016: Celebrated IEEE Day at AKV Public School in Mallasamudram
- 17th Oct, 2016: Session with newly joined IEEE members of Student Branch on "New Trending Technologies"
- 18th Oct, 2016: Organized a session titled as "How to Explore Humanitarian Project Ideas"
- 21st and 22nd Oct, 2016: Conducted a Group Discussion on "Recent Trends in Technology"
- 26th Oct, 2016: Organized Chairman Meet
- 14th Nov, 2016: Organized Spectrum Analysis with the title of "KAIST's PIBOT"
- 15th Nov, 2016: Organized Spectrum Analysis with the title of "Arpa-E's Grid Battery Moonshot".
- 16th Nov, 2016: Organized Spectrum Analysis with the title of "Legal to hack own car"
- 29th Nov, 2016: Conducted an Analog Electronics Seminar

*For Additional Information: Page 15 in LINK 1610
Page 8 in LINK 1611 & Page 5 in LINK 1612*

St. Xavier's Catholic College of Engineering, Nagercoil

27th Aug, 2016: Technology Dissemination Contest for School Children was organized

6th Sep, 2016: Organized a Technical Gathering

10th Sep, 2016: Organized a preliminary project contest with the objective of selecting the best humanitarian project for presentation in the SS12 Project competition held at Kumaraguru College of Technology, Coimbatore.

15th Sep, 2016: Organized a visit to Government Higher Secondary School, Puthoor

15th & 16th Sep, 2016: IEEE SB was inaugurated

20th Sep, 2016: Celebrated the National Engineer's Day

4th Oct, 2016: Organized a technical gathering

20th Oct, 2016: Organized a technical gathering



22nd and 23rd Oct, 2016: Organized IEEE Xtreme 10 Programming Competition in the college campus for the 5th consecutive year

23rd Oct, 2016: Celebrated the IEEE Day

*For Additional Information: Page 34 in LINK 1610 &
Page 17 in LINK 1611*

The IEEE Photonics Society, Madras & Holy Grace Academy of Engg, Thrissur



22nd September, 2016: Organized zonal level project competition in association with IEEE Photonics Society Madras Chapter.

For Additional Information: Page 6 in LINK 1610

Bannari Amman Institute of Technology, Sathyamangalam



14th Sep, 2016: Conducted one-day Hands-on Workshop on “PSIM and its applications.

14th Sep, 2016: Conducted one-day Hands-on Workshop on “Introduction to Simulation of Power Converters using MATLAB”.

16th Sep, 2016: IEEE SB & SAEED jointly organized a lecture on Smart Grids

17th Sep, 2016: Organized lecture on “Grounding Practices”

15th, 22nd Sep, & 1st Oct, 2016: Discussions on articles published in IEEE Spectrum magazine specifically Lithium air batteries, Restoring Human Touch Using Robotic Arm and Brain Stimulation Gadget for Athletes

1st Oct, 2016: Six students from IEEE SB participated in “Maker Fair”, an international level project display contest organized by Kumaraguru College of Technology.

1st Oct, 2016: Organized a lecture on “.NET AngularJS”

4th Oct, 2016: Celebrated IEEE day.

5th Oct, 2016: Organized a workshop on PIC microcontrollers.

5th Oct, 2016: Organized a lecture on “Architecture & Features of Mahara.org – Challenges & Possibilities”.

5th Oct, 2016: Organized a lecture on Industrial Automation

19th Oct, 2016: Inaugurated activities of year 2016-17

20th and 21st Oct, 2016: Organized a national level technical symposium.

21st Oct, 2016: Conducted workshop on Design and Analysis of Electrical Machines using MagNet Software.

21st Oct, 2016: Organized a Workshop on Custom IC Design with Cadence Tools Suite.

21st and 22nd Oct, 2016: Organized a state level technical symposium.

27th Oct, 2016: Conducted lecture on Entrepreneurship by Mr. S. Satheskumar, Deputy Director, MSME DI, Coimbatore, Govt. of India.

For Additional Information: Page 3 in LINK-1610 & Page 3 in LINK-1611

Kalasalingam University, Krishankoil

8th Sep, 2016: Organized a lecture on “Fuzzy Logic System”

For Additional Information: Page 9 in LINK 1610

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

20th Aug, 2016: Seminar on “Renewable Energy for future”

20th Aug, 2016: Organized a Distinguished Lecture Programme by 3W Engineering Services on Engineering

3rd Sep, 2016: Organized AIKAM 2016, student conference on “Nurturing Graduates on Industry Readiness and Employability Skills for the Future”



17th Sep, 2016: Organized a symposium, HENOSIS-2016

22nd Sep, 2016: Organized a National Seminar on ‘Advancements in Nano Medicine and Biomaterials Engineering’

28th Sep, 2016: organized Industrial Lecture series on Electro-Mechanical Utilization in Telecom Industries.

1st Oct, 2016: organized a One Day National Level Workshop on “Fabrication and Testing of LED Lights”

5th Oct, 2016: Organized Industrial Lecture series on Field Instrumentation and Control Systems.

22nd and 23rd Oct, 2016: Organized programming marathon - IEEE Xtreme 10 Competition

3rd Nov, 2016: Organized Vigilance Awareness Programme in association with Indian Bank.

For Additional Information: Page 5 in LINK 1610, Page 5 in LINK 1611 & Page 3 in LINK 1612

Aarupadai Veedu Institute of Technology, Chennai

17th Aug, 2016: Workshop on SCILAB for Beginners.

7th Sep, 2016: Workshop on Image Processing using SCILAB.



26th Sep, 2016: A national-level Technical Symposium ‘Contrivance 16’ was conducted

For Additional Information: Page 3 in LINK-1610

Karunya University, Coimbatore



1st to 3rd Sep, 2016: Conducted a 'three days Hands-on Workshop on Arduino and Sensor Interfacing'

1st to 3rd Sep, 2016: Conducted a Hands-on Workshop on 'Embedded system using Atmega16 Microcontroller'.

15th Sep, 2016: Conducted a One Day Awareness Workshop on Intellectual property rights

29th Sep, 2016: Organized 'Congeries' a collection expo.

29th Sep, 2016: Organized a technical talk on 'Entrepreneurship'

29th Sep, 2016: Organized a Poster Presentation Competition

29th Sep, 2016: Organized a one-day Workshop on 'Photography'

29th Sep, 2016: Organized 'Antiquary – An Antique collection Expo' under the Theme 'Evolution of Technology'

29th Sep, 2016: Organized 'ElectronRelay' a Fun Filled Electronics Technical competition especially for fresher's

29th Sep, 2016: Organized a technical talk on 'Career Opportunities' by Mr. David Solomonraj, Manager- Business Development & Admin, Chakiat Agencies

29th Sep, 2016: Organized 'ElectroCODera' a Boolean and Aptitude based programming contest on occasion of engineer's day

For Additional Information: Page 10 in LINK 1610

PSNA College of Engineering and Technology, Dindugal



28th Sep, 2016: Organized a paper presentation event

For Additional Information: Page 21 in LINK 1610

St. Joseph's College of Engineering, Chennai



25th Jul, 2016: Organized a paper presentation event on Recent Trends an Electrical and Electronics Engineering

30th Jul, 2016: Organized Extempore

9th Sep, 2016: Event Identifying and Connecting Circuits was conducted

12th Sep, 2016: Event Circuit Debugging was conducted

22nd Sep, 2016: Organized a National Level Technical Symposium (JET POTENTIAL 2K'16)

22nd Sep, 2016: Organized a national level symposium, Eternite 2k16

15th & 16th Sep, 2016: Organized a two-days workshop on "Real Time Signal & Image Processing using Xilinx VIVADO System Generator and Simulation of Physical Layer in Communication"

For Additional Information: Page 33 in LINK 1610 & Page 16 in LINK 1611

K.S.Rangasamy College of Technology, Tiruchengode



5th Aug, 2016: Organized a workshop on "Hands on with PIC Microcontroller for Embedded Application Development"

13th Aug, 2016: Organized a workshop and hands-on training on PCB Designing and Fabrication

3rd & 4th Oct, 2016: Organized a conference cum scientific meet on "Industry Institute Interaction"

27th Sep, 2016: Organized a Research forum by Dr. K. Manju Karunambika, Women Scientist, DST-New Delhi

21st Oct, 2016: Organized an awareness programme for Women on Health and Hygiene in collaboration with Public Awareness Club (PAC) & Press and Media Club (PMC)

For Additional Information: Page 18 in LINK 1610 & Page 10 in LINK 1611

KPR Institute of Engineering and Technology, Coimbatore



20th Aug, 2016: Organized a One-Day National Level Workshop on "Grid Integration Challenges in Renewable Energy Sources and Prospective Solutions"

26th Aug, 2016: Arranged One-Day National Level Workshop on "Design and Testing of Arduino Based Industrial Robots"

15th Sep, 2016: Organized an awareness program on "Career opportunities for Electrical Engineers"

25th Sep, 2016: Organized a the Two-Days Workshop on "NBAAwareness"

4th Oct, 2016: Organized "Mini Project Expo '16"

15th Oct, 2016: Organized a lecture on "Outcome Based Education"

25th Oct, 2016: Organized a one-day seminar on "Effective Pedagogy: Principles of Learning and Teaching"

For Additional Information: Page 17 in LINK 1610 & Page 9 in LINK 1611

Dr. Sivanthi Aditanar College of Engineering, Tiruchendur

7th Sep, 2016: Organized a Circuit Designing contest

15th Sep, 2016: Circuit Debugging contest was conducted



26th Sep, 2016: National workshop on "Image & Signal Processing using Matlab" was conducted

29th Sep, 2016: A technical Aptitude contest was organized

6th Oct, 2016: Organized a Model GATE Test

For Additional Information: Page 28 in LINK 1610

Jeppiaar Engineering College, Chennai



26th Aug, 2016: Organized the Distinguished Lecture Program on Computational Intelligence for Industrial and Environmental Applications"

27th Aug, 2016: Volunteers visited a school for physically handicapped school located in Anna Nagar.

4th to 18th Sep, 2016: Organized an online event - SWACHH BHARAT

4th to 9th Sep, 2016: Organized several online web designing event titled ARTIFACT.

10th Sep, 2016: Conducted an online photography event, CAPTURE IT.

9th Sep, 2016: Organized online essay writing event on humanitarian technologies called INNOV,ATE

14th Sep, 2016: Organized "IEEE Spectrum Talk".

24th Sep, 2016: Organized Technical Seminars on Arduino and Internet of Things (IoT).

For Additional Information: Page 7 in LINK 1610

Thiagarajar College of Engineering, Madurai



20th Jul, 2016 and 19th Aug, 2016: Organized discussion forums

26th Aug, 2016: Organized "Draw It" with an objective of breaking the ice among the budding IEEE student members

21st Sep, 2016: Organized poster presentation event using imaging software like Adobe Photoshop, Picasa

9th Sep, 2016: Organized ELIXIR '16 technical events

19th Oct, 2016: Organized the IEEE lecture on "Web Application Development using Web Services"

For Additional Information: Page 36 in LINK 1610 & Page 18 in LINK 1611

Jeppiaar Institute of Technology, Chennai



14th Jul, 2016: Organized a series of online events on Aptitude, Verbal and Reasoning for facilitating student placement in companies.

17th Aug, 2016: Organized a workshop on Embedded System design with PIC Micro-controller

18th and 19th Aug, 2016: Organized CANSAT workshop..

25th Sep, 2016: Organized Graphic Design Workshop on Adobe Photoshop and Adobe Illustrator.

14th Sep, 2016: IEEE SB and WIE, RAS and CS societies inducted the freshers of the college

21st Sep, 2016: Organized Project Expo 2k16.

28th Sep, 2016: Celebrated IEEE Day – 2016 with the theme “Leveraging Technologies for Better Tomorrow”

For Additional Information: Page 8 in LINK 1610

SASTRA University, Thanjavur



30th Aug, 2016: Started a technical event series for campus recruitment

1st Sep, 2016: Conducted a membership orientation programme

19th Sep, 2016: Started a new event series named Tech Talk

For Additional Information: Page 29 in LINK 1610

Prathyusha Engineering College, Chennai



3rd Sep, 2016: Organized the 8th National Level Technical Symposium AAVISHKAR

For Additional Information: Page 20 in LINK 1610

Sri Sairam Engineering College, Chennai

22nd Jul, 2016: Organized a 5 Days Skill Development Workshop on PLC & SCADA

30th Aug, 2016: Organized National Level Technical Symposium-BLITZ 2k16



26th Jul, & 5th Aug, 2016: Organized 'Techo Blaze' outreach programme towards society.

17th and 18th Aug, 2016: Organized two-day workshop on “Skill development initiative programme

31st Aug, 2016: Organized a Technical Seminar on “Recent Trends in Electrical Engineering'

For Additional Information: Page 28 in LINK 1610

St. Joseph's Institute of Technology, Chennai



15th & 16th Sep 2016: National Level Workshop on Xilinx VIVADO System Generator was organized.

19th Sep, 2016: Conducted a line follower competition event, "ROBOWAVES"

20th Sep, 2016: Conducted event on current affairs and for the technical E- Connections along with tech talk

For Additional Information: Page 34 in LINK 1610, Page 16 in LINK 1611

PPG Institute of Technology, Coimbatore



21st Oct, 2016: IEEE SB Inaugural function was held

For Additional Information: Page 14 in LINK 1611

Rajalakshmi Institute of Technology, Chennai



2nd Sep, 2016: Organized a Technical Lecture on “Electronics for Defence”

14th Sep, 2016: Organized a one-day Industrial Visit

20th Sep, 2016: Lecture on “Industrial Automation” was delivered

For Additional Information: Page 26 in LINK 1610

Velammal College of Engineering & Technology, Madurai

3rd and 12th Sep, 2016: Organized CodeBytes v1.0, Programming Competition

17th Sep, 2016: Organized a Symposium



22nd Sep, 2016: Conducted an IEEE Paper Presentation Contest on “Recent Trends in Engineering Applications”

24th Sep, 2016: Organized a Project Expo

For Additional Information: Page 36 in LINK 1610

Rajalakshmi Engineering College, Chennai



16th Sep 2016: Organized a technical seminar on “Control Systems and its Applications”

23rd Sep 2016: Arranged department seminar on Virtual Lab

24th Sep 2016: Digital Design Exhibit'2016 – Project exhibition was organized

28th Sep 2016: MCU Simulation Contest'16 – 8051 Microcontroller simulation contest was organized

For Additional Information: Page 26 in LINK 1610

**S.A. Engineering College,
Chennai**



9th Aug, 2016: “Seminar on Engineer to Entrepreneur-E2E” was conducted

30th Sep, 2016: Organized a Seminar on “Projects and Patents

5th Oct, 2016: Organized a Seminar on “Woman as an Entrepreneur- Challenges”

For Additional Information: Page 27 in LINK 1610 & Page 7 in LINK 1612

**Kings College of Engineering,
Pudukkottai**

20th Sep, 2016: Organized an industrial visit to Lanco Tanjore Power Generation Ltd., Thirvidaimaruthar



23rd Sep, 2016: Organized a one day workshop on “Inverterless Solar Power for Domestic Appliances”

For Additional Information: Page 11 in LINK 1610

**National Engineering College,
Kovilpatti**



16th Sep, 2016: IEEE CS SBC was inaugurated

26th Aug, 2016: Organized an event, HIEROGLYPH (Symbolic notation) CREATOR.

17th Sep, 2016: One day technological training programme was organized.

6th Oct, 2016: A technical event entitled “Test your programming skills”

For Additional Information: Page 20 in Link 1610

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



11th Aug, 2016: Organized an invited talk on “Introduction to Antenna Design”

4th Oct, 2016: Celebrated IEEE Day.

23rd Nov, 2016: Organized one-day workshop on, “Computer Usage for Webs Services”

For Additional Information: Page 34 in LINK 1610, Page 17 in LINK 1611 & Page 10 in LINK 1612

**Velalar College of Engineering
and Technology, Erode**

10th Sep, 2016: Organized an IEEE Members Meet, Technical Lecture on “Energy Conservation and its Effect on Environment” and a lecture on “Build your Positive Thoughts and Human Values”.



21st Oct, 2016: Installation of IEEE SB Office Bearers was done.

For Additional Information: Page 11 in LINK 1612

**Sri Krishna College of
Technology, Coimbatore**



27th Oct, 2016: Organized a workshop on Labview

For Additional Information: Page 3 in LINK 1612

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



26th & 27th Sept, 2016: Two days Hands-on Workshop on Intelligent Robotics

For Additional Information: Page 27 in LINK 1610

**Sethu Institute of Technology,
Kariapatti**



16th & 19th of Sep, 2016: Organized a workshop on 'Smart Lighting System using Low-Cost LED Lights

17th Oct, 2016: Organized the IEEE-Technofest'2k16.

For Additional Information: Page 30 in LINK 1610 & Page 15 in LINK 1611

**Kalaigarr Karunanidhi
Institute of Technology,
Coimbatore**



24th Sep, 2016: Association in Aug, ural function of the EEE Dept. with a lecture on “IoT” was organized

For Additional Information: Page 6 in LINK 1612

**M.Kumarasamy College of
Engineering, Karur**

26th and 27th Aug, 2016: Organized a workshop on “Embedded System Design and Applications using Microchip’s PIC Microcontroller”.



28th Aug, 2016: Organized “ORTHO CAMP

10th Sep, 2016: Intra College Meet E-Week'16 was organized

15th Sep, 2016: Organized ESPERTO'16 inter-collegiate meet

For Additional Information: Page 19 in LINK 1610

SSN College of Engineering, Kalavakkam



24th Aug, 2016: Organized an introductory session on the basics of Arduino controller and development platform

2nd Sep, 2016: General body meeting

6th Sep, 2016: Conducted a Technical Talk on "AR and VR"

8th Sep, 2014: Organized a technical quiz competition dubbed- "TequIEEEz"

9th Sep, 2016: Conducted 'Ludaquiz' as a part of the two day technical fest 'Invente'

10th Sep, 2016: Technical Talk on "AR and VR" was delivered

17th Sep, 2016: Arranged a seminar on "Bio-Ethics" and conducted a Hands-on Workshop on Basic electronics.

24th Sep, 2016: Delivered lecture on "Electromagnetic interference (EMI) & Electromagnetic compatibility (EMC) of Systems".

19th Oct, 2016: Organized a Hands-on Workshop on "Microcontroller".

For Additional Information: Page 32 in LINK 1610 & Page 15 in LINK 1611

Kumaraguru College of Technology, Coimbatore



26th Sep, 2016: Arranged SS12 Project Competition and Maker Fair 2016.

For Additional Information: Page 18 in LINK 1610

IIITDM, Kancheepuram



27th October 2016: IEEE SB of Indian Institute of Information Technology, Design and Manufacturing (IIITDM), Kancheepuram, was inaugurated.

For Additional Information: Page 6 in LINK 1611

Sri Ramakrishna Engineering College, Coimbatore



1st Oct, 2016: Organized a one-day trip to a rural school in Palakkad district, a visit to historical fort/museum in Palakkad city and Malampuzha Dam at Palakkad District, Kerala

For Additional Information: Page 30 in LINK 1610

Sathyabama University, Chennai



15th and 16th Sep, 2016: Organized a Two-day workshop on PCB Design at Microelectronics Laboratory

22nd and 23rd Sep, 2016: Organized a Two-day National Workshop on 'Brain Wave, Biped Robot and Sixth Sense Robotics'

For Additional Information: Page 30 in LINK 1610

IEEE Madras Section

15th and 16th Sep 2016: Faculty Development Program of IEEE Madras Section was organized at K.L.N.College of Engineering, Pottapalayam, Madurai



21 & 22 Oct, 2016: Student Paper Contest (IEEE MAS-SPC2016) held.

29th Sep and 14th Oct: Organized a ICT Quiz.

For Additional Information: Page 25, 38 in LINK 1610 & Page 23 in LINK 1611

IEEE Computer Society, IEEE Professional Communication Society & IEEE Madras Section



Oct 2016: Organized ICT Quiz 70th anniversary of IEEE Computer Society

For Additional Information: Page 25 in LINK 1611

PSG College of Technology, Coimbatore



15th Sep, 2016: Formal inauguration of SB chapter

22nd Oct, 2016: Conducted a one-day workshop on Rapid Prototyping using 3D Printers

For Additional Information: Page 21 in LINK 1610 & Page 14 in LINK 1611

Cape Institute of Technology, Kanniyakumari



28th and 29th Sep, 2016: Organized a two-day workshop on "Internet of Things"

For Additional Information: Page 4 in LINK 1610

IEEE Day - 2016 celebrations



The IEEE Day – 2016 was celebrated at the Section in a grand manner with Dr. M. Anandakrisnan, Former VC, Anna University & Former Chairman, Board of Governors, IIT Kanpur as the Chief Guest. Our Chairman, in his message has given a detailed account of the events took place on that memorable day.

We are pleased to share the Memories of IEEE Day - 2016 Celebrations of IEEE Madras held on 15th Oct 2016 with you at <https://goo.gl/gWwBZo> This gDrive folder contains: IEEE Day - 2016 Programme Schedule; Pictures taken at the celebrations; Video Clips on the theme "Leveraging Technology For a Better Tomorrow"; Presentations done by select IEEE Student Branches; Presentations relating to: Keynote address by the Chief Guest, Sr Member Elevation, IEEE Xtreme Programming Competition.

The event was a grand success with over 150 members participated and benefited through various events including presentations, interactions, fun activity.

ICT Quiz



The IEEE Computer Society (CS) Madras Chapter and IEEE Professional Communication Society (PCS) Madras Chapter along with the IEEE Madras Section organized the ICT Quiz as a part of the celebration of the 70th anniversary of IEEE Computer Society. The Quiz was conducted in three stages. PRELIMS, Regional ORALS and FINALS. The PRELIMS was held ONLINE to shortlist teams to participate in the Regional ORALS to be held at different regional centres. The Regional ORALS was held in five centers – KSR College of Technology, Tiruchengode, Panimalar Inst. of Technology, Chennai, St. Joseph's College of Engineering, Chennai, Seshasayee Institute of Technology, Trichy and KLN College of Engineering, Madurai. The top three teams from each Regional ORALS were given cash prizes of Rs. 2500/- , Rs. 1500/- and Rs. 1000/- and the rest of the teams received a cash prize of Rs. 500/- each.. The teams stood first in each of the five Regional ORALS participated in the FINALS held at Chennai on 26th Nov 2016. The team members selected for FINALS were reimbursed travel expenses along with their stay was taken care. The top three teams of the FINALS – IIITDM, Chennai, Amrita School of Arts and Sciences, Kochi and Velammal College of Engineering and Technology, Madurai received the cash prizes of Rs. 10000/- Rs. 6000/- and Rs. 4000/- respectively and the rest two teams – Kendriya Vidyalaya School, Trichy and Panimalar Inst. of Technology, Chennai received the prize of Rs. 1000/- each.

IEEE Xtreme Programming Competition



The IEEE Madras Section in association with the Vel Tech Univ. IEEE SB organized IEEE Xtreme Programming Competition on 22nd Oct 2016 in which over 50 teams from various colleges participated.. This programme was coordinated by Mr. Prasanth Mohan, Coordinator, IEEE Xtreme Programming Competition & a team consisting of Dr. E. Kannan, Dr. N. Malarvizhi, Dr. S. Koteeswaran, Dr. T. SenthilMurugan, Mr. R. Vinoth Kumar, Mr. N. Raj Kumar, Mr. P. R. Joe Dhanith, Ms. G. Tamilmani, Mr. S. Vinoth John Prakash from the university. The competition was graced by Mr. H. R. Mohan, Dr. P. Sakthivel, Secretary cum Treasurer and Dr. S. Radha, EC Member.

IEEE Madras Section Student Paper Contest 2016 (SPC2016)



IEEE Madras Section in association with IEEE SB of Vel Tech University organized the IEEE Madras Section Student Paper Contest (IEEE MAS-SPC2016) which took place during 21st and 22nd Oct, 2016. 63 persons presented their papers. Papers were grouped in three tracks -- Computing & Information Technology; Electrical, Electronics & Communication Engineering and Mechanical & Construction Engineering. The contest was inaugurated by Dr. M. A. Atmanand, Chairman, IEEE Madras Section. Dr. R. Rangarajan, Founder Chancellor & President presided over the event. Prof. Beela Satyanarayana, Vice-Chancellor; Dr. E. Kannan, Registrar; Mr. H. R. Mohan, Vice Chairman, IEEE Madras Section; Dr. N. Kumarappan, Vice Chairman, IEEE Madras Section; Dr. P. Sakthivel, Secretary cum Treasurer, IEEE Madras Section also participated in the event. Best paper awardees in each tracks were given cash prizes and include the following:

Track 1: Computing and Information Technology

First Prize (Rs. 7500): Design and Analysis of Estimation Algorithm for Improving Localization Performance in Wireless Sensor Networks by S. Sivasakthiselvan and Dr. V. Nagarajan from Institution Name: Adhiparasakthi Engineering College, Melmaruvathur

Second Prize (Rs. 5000): Aid for virtually challenged by Balaji Kamalesan and Kishore Kumar K from Veltech University, Chennai

Third Prize (Rs. 2500): Driver risk management system by Kaviya Shri and R.Divya from Velammal Institute of Technology

Track 2: Electrical, Electronics & Communication Engineering

First Prize (Rs. 7500): Lip reading and speech to text converter for deaf and mute by R. Nishitha, Dr. K. Srinivasan and Dr. V. Rukkumani from Sri Ramakrishna Engineering College, Coimbatore.

Second Prize (Rs. 5000): Under water crack detection using image processing (ROV) by Aishwarya Gowda.A.G and A.V.V. Susmitha from Veltech University, Chennai

Third Prize (Rs. 2500): Microbial Incapacitation in Water using Pulsed Electric Field using Arduino Technique by Ashvanth B from SASTRA University, Thanjavur

Track 3: Mechanical and Construction Engineering

First Prize (Rs. 7500): Bio sand filter (BSF) using RO membrane layer to purify unclean water by Chandra Kumar. J, Selvakumar. A, Vignesh. T from Saveetha University, Chennai

For photos of the SPC-2016, pl. visit

<https://drive.google.com/drive/folders/0B8fl9ijMRgjc2tEvv8yZ0xIOG5>

**Difficulties in your life do not come to destroy you,
but to help you realize your hidden potential and power,
let difficulties know that you too are difficult.**

- Dr. APJ Abdul Kalam

Information Resources

Our autonomous future: How driverless cars will be the first robots we learn to trust: In this in-depth report, learn why self-driving cars are inevitable, what the industry is doing about safety, and what it will take to get autonomous vehicles into the mainstream. <https://goo.gl/UggVnJ>

15 meeting etiquette rules every professional needs to know: Work meetings aren't always fun. In fact, they're usually just the opposite. However, when you're required to attend one, it's important that you conduct yourself in a respectful and professional manner among your co-workers, bosses, and current or prospective clients - no matter how busy or bored you may be. Barbara Pachter, a career coach and author of "The Essentials Of Business Etiquette," gave us a few tips to maintain a positive and professional image while in a meeting. You can see the related infographics at <https://goo.gl/Ye0tbZ>

2017 cybercrime trends: Expect a fresh wave of ransomware and IoT hacks: This year companies were rocked by over 90 million cyberattacks. In 2017 the number could double. Cybersecurity expert Sameer Dixit explains how new innovation leads to increased vulnerability. <https://goo.gl/PfsszP>

Big Data Sourcebook: Fourth Edition: Database Trends and Applications magazine's fourth edition of the Big Data Sourcebook is your guide to the enterprise and technology issues IT professionals will be facing in 2017 as business or organizational leadership increasingly defines strategies that leverage the "big data" phenomenon. To download this sourcebook pl. visit <https://goo.gl/Fdj9IS>

A Cigarette-Smoking Robot for Better Lung Disease Research: For the good of humanity and medical research, Harvard scientists have invented a robot that smokes cigarettes. Well, calling it a robot may be a bit of a stretch—it's more of a lab instrument. But the device does puff on up to 10 cigarettes at a time, taking in the smoke and channeling it to a tiny chip lined with living cells from human lungs. This "lung-on-a-chip" can be used to study how lung cells react to smoke, in intimate detail and with a level of verisimilitude that animal studies can't match. <https://goo.gl/yHFZeU>

Why the Internet Needs Cognitive Protocols: Networks will break down without new biologically inspired routing. The future Internet will need smarter routing algorithms to handle diverse data flows and prevent failures. Although there are no tried-and-true solutions yet, early designs might follow an architecture like this one. <https://goo.gl/vD7yPW>

Instead of Dropping Bombs, Can Drones Locate Unexploded Ones?: In much of the world, an American drone flying overhead means danger: Predator drones and the like can unleash fury out of the deep blue sky. But drones can also help war-torn countries recover, argued Ryan Baker, CEO of drone maker Arch Aerial, at a SXSW Interactive talk yesterday. His company hopes to use its drones to identify locations that are likely to be riddled with unexploded bombs from past wars. <https://goo.gl/PW0QJ9>

Germanium Can Take Transistors Where Silicon Can't: The material inside the first transistors could have a new life at the cutting edge. Germanium was an early transistor material. Now its charge-carrying abilities and advanced fabrication technology make it an attractive material for future chips. As a proof of concept, the author and his team used germanium-on-insulator wafers to construct inverters containing first planar transistors and then FinFETs. <https://goo.gl/MezacF>

Experts predict 2017's biggest cybersecurity threats: From internal threats to creative ransomware to the industrial Internet of Things, security experts illuminate business cybersecurity threats likely to materialize in the next year. <https://goo.gl/mLIrH>

Don't shun 3D printers – they might save your life one day: Talking only about 3D printers and guns is like watching a movie in fast forward, slowing down only to watch the bits where people die. But in the whole story of 3D printing, guns are only one short scene - the rest of the story is

far more uplifting. A whole research industry has flourished with advancements in medicine, manufacturing and architecture - breakthroughs which have actually been developed for decades. <https://goo.gl/j3Fv3W>

Apple iPhone 7: The smart person's guide: The rumors are true. There is no headphone jack on Apple's iPhone 7 and 7 Plus smartphones. But, there are some new features worth noting. Learn the pros and cons. <https://goo.gl/7EiqzM>

Blockchain: The smart person's guide: This comprehensive guide covers everything you need to know about the blockchain, the innovative technology that powers Bitcoin, Litecoin, and other cryptocurrencies. <https://goo.gl/L6OpnV>

Google Assistant: The smart person's guide: This comprehensive guide covers the history behind Google's AI-powered Google Assistant, its features, and what it means for the future of Google's business. <https://goo.gl/ZiZWf>

Google Pixel phone: The smart person's guide: Our comprehensive guide covers the origin of the Google Pixel phone, its specifications and features, and what it means for Google's mobile strategy. <https://goo.gl/0weCXO>

Dark Web: The smart person's guide: Nefarious profiteers use the encrypted internet to sell stolen data, drugs and weapons. Facebook and the UN use it to protect dissidents and journalists. This guide shines a light on the Dark Web. <https://goo.gl/fGsOGL>

Android 7.0 Nougat: The smart person's guide: Learn what features and security enhancements Android Nougat has to offer, and why it's important, in this resource guide about the seventh iteration of the Android platform. <https://goo.gl/Isp26R>

Tesla's Autopilot: The smart person's guide: Autopilot, Tesla's autonomous driving feature, aims to assist drivers on highways through a system of cameras, sensors, and GPS. This comprehensive guide explains what the concept really means. <https://goo.gl/dxiVXT>

Microsoft Surface Studio: The smart person's guide: Everything you need to know about the Surface Studio, Microsoft's new all-in-one PC designed to tempt professional artists and designers over to Windows. <https://goo.gl/1N645M>

Electronic health records: The smart person's guide: This comprehensive guide covers all you need to know about EHRs, or electronic health records, the new standard in medical documentation. <https://goo.gl/FE8IPY>

1Password: The smart person's guide: This comprehensive guide covers all you need to know about 1Password, a leading password management app for Android, iOS, macOS, and Windows. <https://goo.gl/7socGR>

Google Assistant: The smart person's guide: This comprehensive guide covers the history behind Google's AI-powered Google Assistant, its features, and what it means for the future of Google's business. <https://goo.gl/fkT04V>

Digital forensics: The smart person's guide: This comprehensive guide covers everything you need to know about digital forensics, the science of recovering data from computers, networks, mobile phones, and IoT devices. <https://goo.gl/bJrSQz>

Electronic health records: The smart person's guide: This comprehensive guide covers all you need to know about EHRs, or electronic health records, the new standard in medical documentation. <https://goo.gl/hHibJU>

Agile project management: The smart person's guide: This is the go-to guide on Agile project management for project managers, business leaders, developers, project and product teams, consultants, stakeholders, and students. <https://goo.gl/SgeUF1>

From Ada to Zuckerberg: History's most important IT people: Readers of Computing will know better than most how wide-reaching and fantastic

the effects of IT have been, and continue to be, on the human race. The leaps and bounds technology continues to make year in, year out are staggering. But who are the people that made information technology what it is today? From the raw conceptualism of a computing algorithm or building the first transistor-based processor, to executing established practice to create the World Wide Web or social networking, Computing has identified the key individuals in an epic chronology that spans over 400 years. But who are these people who built IT from nothing to the global phenomenon to which we owe our careers and lifestyles today? Who is the king of relational databases, and who is the queen of mobile phones? Who coded their own height in calculations to send the first humans to the moon? And who pioneered the induction motor and AC electricity, but ended their life flogging unlikely energy weapons to global superpowers while taking care of injured pigeons? Read on to find out the potted histories of the smart, brave, visionary and often slightly unhinged souls who made technology what it is today, and without whom we'd still be counting with little stones and making spreadsheets out of sticks and leaves. <http://goo.gl/DaExEF>

Compiled by

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Useful IEEE Links

- 2017 IEEE Membership and Society Membership Dues: http://www.ieee.org/membership_services/membership/join/join_dues.html
- IEEE Society Memberships: http://www.ieee.org/membership_services/membership/societies/index.html
- Global Benefits Finder: http://www.ieee.org/membership_services/membership/benefits/index.html
- IEEE Student Activities: http://www.ieee.org/membership_services/membership/students/index.html
- IEEE Geographic Unit Formation Policies and Petitions http://www.ieee.org/societies_communities/geo_activities/forms_petitions/forms_petitions_index.html
- Student Branch Officer Responsibilities and Administration: http://www.ieee.org/membership_services/membership/students/officers.html
- IEEE Region 10: <http://www.ieeer10.org>
- IEEE Contact & Support: http://www.ieee.org/about/contact_center/index.html
- IEEE Support Center: <https://supportcenter.ieee.org>
- IEEE Websites / Sitemap: <http://www.ieee.org/sitemap.html>

Announcements

IEEE SB Activity Report for the year 2016: To facilitate the preparation of the consolidated report for presenting to the IEEE R10 & at the IEEE MAS Annual Meeting and to evaluate and decide the cash awards and certificate of appreciation, all the student branches, are requested to submit their activity reports by email to ieemas.docs@gmail.com for the year 2016 (period Jan 2015 to Nov 2016 -- no need to wait to include Dec 2016 activities) as per the template format available at <https://goo.gl/JhbK5F>

IEEE SC / AG Activity Report for the year 2016: To facilitate the preparation of the consolidated report for presenting to the IEEE R10 & at the IEEE MAS Annual Meeting and to evaluate and decide the cash awards

and certificate of appreciation, all the Society Chapters and Affinity Groups are requested to submit their activity reports by email to ieemas.docs@gmail.com for the year 2016 (period Jan 2015 to Nov 2016 -- no need to wait to include Dec 2016 activities) as per the template format available at <https://goo.gl/zzb7Ad>

IEEE Madras Section SB Officers Meet cum Annual Meeting: It is proposed to organize the IEEE Madras Section SB Officers Meet during the 1st week of Feb 2017 (tentatively 4th / 5th Feb 2017) along with the Annual Meeting. The SB Counselor and one Office Bearer of the SB will be reimbursed the travel expenses (ordinary bus fare / 2nd sleeper train fare) to participate in the SB Officers Meet. A formal announcement and registration details will be sent shortly.

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Mr. H.R. Mohan, Chief Editor

Mr. Prashant R. Nair, Editor

Mr. M. Arun, Dr. M.A. Atmanand, Dr. N.R. Alamelu,

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