

IEEE Kharagpur Section Annual Report for the Year 2016

Section Office Bearers:

- Dr. Alok Kanti Deb (Chair)
- Dr. Amitabha Bhattacharya (Vice Chair)
- Dr. Chittaranjan Mandal (Secretary)
- Dr. Shailendra Kumar Varshney (Treasurer)
- Dr. Pabitra Mitra (Past Chair)

Section constituent bodies:

- Kharagpur Section
- IIT Kharagpur Student Branch
- HIT Student Branch
- Women in Engineering Affiliate
- Haldia Subsection
- Control Systems Society
- Engineering in Medicine Biology Society
- Signal Processing Society
- Antenna and Propagation and Microwave Theory and Techniques (AP-MTTS) Student Branch Chapter
- IEEE EMB Student Club
- IEEE SPS Student Branch Chapter

Membership:

Fellow – 1; Graduate Student Member – 126; Life Senior Member -- 3; Member -- 120; Senior Member -- 36; Student Member -- 62 and Total -- 348

Major Events:

- Technically Cosponsored International Conference on Systems in Medicine and Biology, Jan 4-7, 2016.
- Technically Cosponsored International Conference on 21st Century Energy Needs-Materials, Systems and Applications, Nov 17-19, 2016.
- Organized **50** technical talks

Major Student and Affinity Group Activities:

- Ubuntu install fest, TechSym 2016, Workshop on Deep Learning, EUREKA – a technical paper presentation event during Kshitij – 2016.
- ROBOTICS, ROBOWAR, Manual Robotics workshop, MATLAB workshop and Virtual Lab workshop.
- Technical talk by eminent speakers; WIE track during TechSym 2016 for paper presentation by women engineers and plenary talk; STAR activity to attract women in engineering profession undertaken in schools around Kharagpur.

Awards:

- Two executive committee members, Dr Sanjay Chaturvedi and Dr Shailendra K Varshney and Dr Santanu Kapat has been elevated to Senior Member grade.
- IEEE R10 WIE award to support WIE track during TechSym 2016,
- IEEE R10 WIE award to conduct STAR activity
- IEEE R10 WIE award to organize R10 50 years anniversary
- Mr Tamoghna Ojha (IEEE Kharagpur section Student Branch Chair, 2015) has been awarded IEEE CS R. E. Merwin Student Scholarship for 2017.

Detailed report at: <https://goo.gl/zaCQ2q>

Google map to show houses viable for solar roof in US: A map under Google's 'Project Sunroof' will be showing which houses across the US are viable for solar roofs or have enough unshaded area for solar panels. Google uses visual data from Google Maps and Google Earth to generate 3D models of the total sunlight that reaches a roof. Google data says Houston is the city with most solar potential.

Africa gets own domain name 32 years after world's 1st domain: Africa has got its own domain name '.africa' for the continent 32 years after the world's first domain name was registered. The domain name '.africa' will be used to reflect a company's interest in the whole of Africa. According to the World Bank, sub-Saharan Africa has one of the lowest rates of internet penetration in the world.

IEEE Bombay Section Annual Report for the Year 2016

Section Office Bearers:

- Mr. Anthony Lobo (Chair)
- Mr. Abhay Phansikar (Vice Chair)
- Mr. Aiyappan Pillai (Vice Chair)
- Prof. Vinit Kotak (Secretary)
- Prof. Suryanarayana Doolla (Jt. Secretary)
- Prof. Sanjay Pawar (Treasurer)
- Mr. Anand S Gharpure (Jt. Treasurer)
- Mr. Atindra K Banerjee (Immediate Past Chair)

IEEE Bombay Section constituent bodies:

- BOMBAY SECTION
- Computer Society Chapter
- Communications Society Chapter
- AP/ED Chapter
- SMC Chapter
- Signal Processing Society Chapter
- IA/PE/IM Chapter
- MTTTS Chapter
- Life Members Affinity Group
- Young Professional AG
- Women in Engineering AG

Membership:

Life Fellow – 5; Fellow – 9; Life Sr Members – 7; Sr Members – 209; Life Member – 7; Members -- 1,714; Assoc. Members – 40; Gr. Student Members – 581; Higher Graduate -- 2,572; Student Members -- 3,690; Total -- 6,262

Section Highlights

- IEEE Bombay Section Signature Conference held in December 2016
- National Leadership Conference held on October 14-15,2016
- Internship and Entrepreneurial Workshops with R10 under the India Strategic Initiative
- 2nd Panel Meeting of IEEE Admissions & Advancement Committee in Mumbai on 19 March 2016 for SM elevation.
- Local Host Section for IEEE Board delegation Visit to Mumbai 22-23 August 2016. Facilitated meetings with Industry & Research institutions in Mumbai : IIT Bombay, TIFR, Tata Group and L&T..
- Local Host Section for 4th National Cybersecurity Workshop organized by IEEE India Council 11-12 November 2016.

Awards:

- 2016 MGA Achievement Award to Dr B Satyanarayana, Technical & Professional Activities Chair
- MGA 2016 Outstanding Branch Counselor Award 2016 to Prof Ms Gejo George, Branch Counsellor of Student Branch of Don Bosco Institute of Technology
- Membership Retention Award to Bombay Section for meeting Section Retention Goals
- Certificate of Recognition received by Mr. Anthony Lobo, Chair, Bombay Section from IEEE Member Recruitment and Recovery Committee for outstanding achievement in member retention for the section during 2016
- Certificate of Recognition received by Mr Aiyappan Pillai, Membership Development Chair, Bombay Section from IEEE Member Recruitment and Recovery Committee for outstanding achievement in member retention for the section during 2016
- Certificate of Recognition as 2016 IEEE Day Ambassador to Prof Shashikant Patil, NMIMS Shirpur and Prof Seema Kawale, SAKEC

Website: <http://ieeebombay.org>

Detailed report at: <https://goo.gl/DCem2B>

IEEE Kerala Section Annual Report for the Year 2016

Section Office Bearers:

Chair	Dr. K.R.Suresh Nair
Vice Chair	Dr. Sameer S M
Secretary	Ms. Sarada Jayakrishnan
Treasurer	Mr. Jithin Krishnan
Immediate Past Chair	Mr. Unni Sankar
Immediate Past Secretary	Mr. Sabarinath Pillai
Chair, Malabar Subsection	Dr. Lilly Kutty Jacob
Vice Chair, Malabar Subsection	Dr. Gopakumar A
Secretary, Malabar Subsection	Mr. Rijil Ramchand
Chair, Kochi Subsection	Ms. Mini Ulanat
Vice Chair, Kochi Subsection	Mr. Shahim Baker
Secretary, Kochi Subsection	Mr. Vijay S Paul

IEEE Kerala Section constituent bodies:

- Kerala Section
- Malabar Sub Section
- Kochi Sub Section
- Power & Energy Society
- Computer Society
- IA/IE/PEL Joint Chapter
- Communication Society
- Society on Social Implications of Technology
- Antenna & Propagation Society
- Robotics and Automation Society
- Signal Processing Society
- Engineering in Medicine and Biology Society
- Circuits and Systems Society
- Young Professionals Affinity Group
- Women in Engineering Affinity Group
- Life Member Affinity Group

Membership:

Life -- 13; Sr Members – 120; Members -- 936; Associate Members – 40; Graduate Student Members – 617; Student Members -- 6187; Total --7914

Section Highlights

- A whooping, around 1080 events in one year: almost 3 events per day within the Section.
- ISTAS 2016 - Flagship Conference of IEEE SSIT held at Trivandrum from Oct 20-22, 2016
- IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES 2016) by IEEE IAS, PES, PELS and IES on 14-17 Dec 2016.
- IEEE Job fair. The first ever recruitment drive by IEEE Kerala Section held on 13th & 14th Feb 2016 at Mar Athanasius College of Engineering, Kothamangalam.
- IEEE Day with a State (Section) Wide Torch Relay starting from the northernmost district, Kasargod and ending at the southern district, Trivandrum.
- Shastra Vismaya: A unique initiative by IEEE Kerala Section and the Dept. of Social Welfare, Govt. of Kerala for Abused Children staying in Government Shelter Homes, to inculcate interest towards Science and its applications.
- International Year of Light to enthuse, educate and elevate the minds of school children at UP, HS & HSS levels covering ~12,600 Schools in Kerala, reaching 1.4 Million students
- Community Engagement Workshop held at Kovalam on 20th – 22nd Oct, 2016.
- Section Internship Program for Student members.
- IEEE Kerala working closer with Government of Kerala
- Six Distinguished Lecture Programs

Awards:

- IEEE Kerala Section : IEEE MRRC Award - 2016 Outstanding Section membership Recruitment award
- Kerala Young Professionals Affinity Group : 2016 IEEE Young Professionals Affinity Group Hall of Fame Award
- Shahim Baker: 2016 IEEE MGA Young Professionals Achievement Award [Industry]
- Richard E Merwin Scholarship - 7 out of 10 for R10 came to Kerala Section
- 2016 Darrel Chong Award to TKM College of Engineering & M A College of Engineering, Kothamagalam
- CEC Chengannur - Regional Exemplary Student Branch Award for Region 10
- MES, Kuttippuram - Outstanding Student Branch Award by IEEE India Council.
- 3 Volunteers (Bibin Parukoor Thomas; Shahul Hameed; and Vijay S Paul) graduated IEEE VOLT Program from Kerala Section in 2016

Newsletter: Published regularly with one print issue annually

Website: <http://www.ieeekerala.org/>

Detailed report at: <https://goo.gl/4Tnk0p>

IEEE Gujarat Section Annual Report for the Year 2016

Section Office Bearers:

Chair	Y P Kosta
Vice Chair	R B Jadeja
Secretary	Manik Lal Das
Treasurer	Haresh Sabhadia
Past Chair	Anil K Roy

Section constituent bodies:

- Gujarat Section
- Joint Chapter of IAS, IES and PELS
- PES Chapter
- Joint Chapter of MTT & AP societies
- Computer Society Chapter
- SPS Chapter
- CIS Chapter
- WIE Affinity Group
- 22 Student Branches

Section Highlights:

- Co-sponsored National Seminar on New Trends in Signal Processing 2016 (NeTSiP'16) during October 20-21, 2016.
- CIS Winter School on Computational Intelligence, March 1-5, 2016, DA-IICT, Gandhinagar.
- Section Students & YP event 'Sampark 2016' on 14th February 2016.
- Emerging Research Trends in Engineering-2016 on 2/12/2016
- IEEE event on Internship & Entrepreneurship Development Program on 12/9/2016
- Robo Soccer - A real time platform for applying Computational Intelligence Workshop on 30/3/2016
- Hackathon on 5/3/2016 & MSP430 Hackathon on 4/10/2016
- Seminar on Industrial IoT on 12/8/2016

Awards & Regognitions:

- 25 teams belonging to 6 SBs from Gujarat Section got placed in the worldwide list of 2146 teams of IEEE Xtreme.
- IEEE student branch NIRMA has bagged prestigious award at International Competition IEEEmadC (IEEE Mobile Application Development Competition) 2016.
- IEEE LDCE student branch Mr. Kartavya Patel has bagged prestigious award in IEEE MTTS video competition by sharing top honour and prize money of 1000USD.
- Three. Students from ADIT were invited by Hard Tech summit organised by IEEE R 10 young professionals at NTU Singapore on 26th November 2016.
- Leadership positions in India Council: Chair - Deepak Mathur; Treasurer - Anil K Roy
- 2016 Member, MGA Ad Hoc Committee -Geo-Unit Vitality Dashboard project - Anil K. Roy

Detailed report at: <https://goo.gl/anFrcF>

IEEE Pune Section Annual Report for the Year 2016

Section Office Bearers:

Chair -- Dr Pradeep K Sinha
Immediate Past Chair -- Dr. Rajesh Ingle
Vice-Chair,-- Mr. Girish Khilari
Secretary -- Dr Surekha R Deshmukh
Treasurer -- Prof Mandar Khurjekar

Section constituent bodies:

- Pune Section
- Communication Society
- Computer Society
- PES/IAS Society
- Signal Processing Society
- Instrumentation and Measurement Society
- Women in Engineering (WIE) Affinity Group
- 22 Student Branches

Membership:

Fellow – 2; Sr Members – 41; Life Member – 1; Members -- 352; Affiliate Members – 9; Assoc. Members – 93; Student Members -- 679; Total – 1,177

Section Highlights:

- A tutorial on 'PUNE MODEL: Planning for a Smart City in a Developing country' was presented by Prof GS Mani & Dr Surekha Deshmukh
- IEEE WIE International Summit Pune 2016 on 23rd – 24th Sept 2016
- IEEE International Women in Engineering Conference on Electrical and Computer Engineering (WIECON-ECE 2016) on 19 – 21 Dec 2016
- One of the key organizers of IEEE REGION 10 STUDENT/YP/WIE/LM CONGRESS 2016 (SYWLMLC 2016) during 25-27 August 2016 at Bangalore.
- IEEE R 10 student Congress was organized at Pune on 23rd July 2016
- Student Project Competitions (UG and PG)
- Technical Talk Series Lectures
- Problem Solving Workshop
- Conference: ICPC 2016 (28-30 Jan 2016)
- Hands on Session on Matlab, Labview, NS1/NS2
- Essay competition for students, Student Awareness Contest
- Field trip - Industry/exhibition visit
- Rural school visits for community development
- IEEE Xtreme
- Project competition on Signal and Image Processing on 04/07/2016
- Internship and Entrepreneurship Meet
- 22 Society Chapter activities
- International Conference on Internet of Things and Applications
- International Conference on Computing, Communication, Control and Automation-2016 International Conference on Automatic Control and Dynamic Optimization Techniques
- IEEE International Conference on Computing, Analytics and Security Trends

Awards:

- PES/IAS Chapter received HPCP award for its performance in year 2015. The award is worth of US \$ 200/-
- Prof Sachin Shelar received a grant of US \$ 300/- for membership drive

Website: <http://www.ieeepunesection.org>

Detailed report at: <https://goo.gl/e9K3M1>

Researchers successfully hack a smartphone with sound waves: Computer security researchers from the Univ. of Michigan and the Univ. of South Carolina have successfully hacked a smartphone and a fitness band through sound waves. This was made possible by controlling the gadgets' accelerometers by playing specially crafted sounds. Researchers were able to add fake steps to a Fitbit band and play a malicious music file on hacked smartphone

IEEE Kolkata Section Annual Report for the Year 2016

Section Office Bearers:

Chandan K Sarkar - Chairman
Sujit K Biswas - Chairman-Elect
Kesab Bhattacharyya - Vice-Chairman
Sayan Chatterjee - Secretary
Suparna Kar Chowdhury – Treasurer
Debatosh Guha – Imm. Past Chair

Section constituent bodies:

- Kolkata Section
- AP/MTTS Chapter
- CAS Chapter
- CIS Chapter
- Computer Chapter
- COMSOC Chapter
- DEIS Chapter
- EDS Chapter
- GRSS Chapter
- IAS Chapter
- PES Chapter
- Photonics Chapter
- YP Affinity Group
- WIE Affinity Group
- CSS-IMS
- SSCS Chapter
- SIGHT
- 38 Student Branches

Membership:

Graduate Student Member – 625; Student Members – 1250; Total – 3,468

Section Highlights:

- 32 Technical meetings on current interest topics were organized
- Technical support to 34 conferences
- 18 Educational activities
- Nine outreach programmes
- One industry visit
- Three community activities

Awards & Recognitions:

- Received the outstanding section membership recruitment performance award.
- Prof. Debatosh Guha has been conferred IEEE Fellow.
- Prof. Debatosh Guha has been appointed as an Associate Editor of the IEEE Transactions on Antennas and Propagation.
- Prof. Debatosh Guha has been awarded by IETE for one of their highest recognition of "RAM LAL WADHWA AWARD".
- IEEE-IAS Kolkata Chapter once again bagged the prestigious “Outstanding Small Chapter – Continuing Performance” award for the year 2016.
- Ms. Chandreyee Sarkar, Institute of Radio Physics and Electronics, University of Calcutta, is a recipient of INAE Engineering Excellence Award 2016

Newsletter: In electronic form

Website: www.ewh.ieee.org/r10/calcutta

Detailed report at: <https://goo.gl/4yfmS9>

IEEE Madras Section Annual Report for the Year 2016

Section Office Bearers:

Dr. M.A. Atmanand	Chairman
Dr. N.R. Alamelu	Immediate Past Chair
Mr. H.R. Mohan	Vice Chairman
Dr. N. Kumarappan	Vice Chairman
Dr. P. Sakthivel	Secretary & Treasurer

Section constituent bodies:

- Madras Section
- Pothigai Sub Section
- Aerospace and Electronic Systems (AES)
- Antennas and Propagation (APS)
- Computer Society (CS)
- Communications (COMSOC)
- Computational Intelligence (CIS)
- Control Systems (CSS)
- Engineering in Medicine & Biology (EMBS)
- Education (ES)
- Electromagnetic Compatibility(EMCS)
- Industrial Applications (IAS)
- Information Theory (ITS)
- Instrumentation and Measurement (IMS)
- Microwave Theory and Techniques (MTTS)
- Nano Technology Council (NTC)
- Power and Energy (PES)
- Power Electronics (PELS)
- Product Safety Engineering (PSES)
- Professional Communication (PCS)
- Photonics (PS)
- Robotics and Automation (RAS)
- SIPCICOM
- Social Implications of Technology (SITS)
- Technology and Engineering Management Society (TEMS)
- Electron Devices – Chennai
- Electron Devices – Coimbatore
- WIE Affinity Group
- Young Professional
- SIGHT
- ADSF SIGHT
- 84 Student Branchest

Membership:

Fellow – 4; Life Sr Members – 12; Sr Members – 196; Life Member – 7; Members – 2,246; Affiliate Members – 21; Assoc. Members – 55; Graduate Student Members – 818; Student Members – 5,188; Total – 8,547

Section Highlights:

- 2016 IEEE MINI POCO (Panel of Conference Organizers)
- IEEE Chennai Hub Congress:
- IEEE Coimbatore Hub Congress cum India Strategic Initiative
- IEEE Day Celebration
- Student Paper Contest 2016
- IEEE Xtreme Programming Competition
- ICT Quiz in five regional centers and a finals
- Eight technical meetings
- 216 SC/AG activities
- 26 National/International Conferences/Workshop/Seminars were technically sponsored
- Two community activities

- Three Faculty Development Programmes
- Student Project Funding
- SB events funding to the tune of Rs. 2.2 lakhs
- Motivational Awards to SBs and Society Chapters and Affinity Groups
- Student Branch revamping initiatives
- R10 SWYL Congress Sponsorship

Awards & Recognitions:

- Prof. M. Ramalatha has received the 2016 WIE Inspiring Member of the Year Award. to recognize a professional member of IEEE Women in Engineering
- IEEE Foundation has sanctioned a grant of \$18, 263 for the project on "Smart Agriculture for Sustainable Food Production" on December 16th. The project involves development of website and mobile app for smart agriculture and conducting awareness workshops on it. The project Period is Jan - December of 2017.
- IEEE Computational Intelligence Society – Madras Section Chapter has received the Outstanding Chapter Award for the year 2015 under the Chairmanship of Dr.N. Kumarappan.
- Certificate of Recognition: The IEEE Member Recruitment and recovery committee recognizes Mr. H.R. Mohan & Dr. N. Kumarappan for outstanding achievement in member retention for the Madras Section during the 2016.
- IEEE Computer Society Madras Chapter of the Madras Section has won the Outstanding Chapter Award for 2015 under the Chairmanship of Mr. H. R. Mohan
- Dr. M.A. Atmanand, Chair, Madras Section was awarded with IEEE Oceanic Engineering Society's (OES) Presidential Award for his outstanding services to the IEEE Oceanic Engineering Society.

Newsletter: IEEE MAS Link published monthly in electronic form and once a quarter as a summary print edition and circulated to members & SBs and engineering institutions

Website: <http://sites.ieee.org/madras/>

Facebook: <https://www.facebook.com/IEEEMadrassection/>

Detailed report at: <https://goo.gl/Msch7i>

IEEE Bhubaneswar Sub-Section Annual Report for the Year 2016

Technical Activities:

- Prof Arogyaswami Paulraj, Stanford University, USA (Evolution of Mobile Communications))
- Mr Bhartendu Sinha, Auto Grid, India (Big Data & Analytics Integration in Smart-Grid Management)
- Dr Saroj Meher, ISI, Bangalore(An Inevitable Bonding of Machine Learning with Big Data)
- Mr Jnan Dash, USA (Emerging Software Technology & Market Trends)
- Dr. R. Nagaraja, Founder & Managing Director(Smart electricity for smart city)
- Dr. Sanjeeb Dash, IBM T. J. Watson Research Center, New York, USA (Discrete optimization)
- Prof. Keshab K. Parhi, University of Minnesota, Minneapolis (Information Analytics, Energy Efficiency and Hardware Security)
- Dr Amit Mishra, University of Cape Town, South Africa (Cognitive Computing: From Neuron to Brain)
- IEEE Distinguished Lecture Program on Role of HVDC and FACTS in Future Electric Smart Grid by Dr. Ram Adapa, P.E., Fellow IEEE
- Student Colloquium with speakers Prof. A. K. Majumdar, Ex Prof, IIT KGP, Pof. K. R. Srivathsan, IIT BBSR, Ms. Renuka Patnaik, Indo-Korea Science and Technology Center, Bangalore and Dhiraj Choudhary, Fabonix Technologies Private Limited
- Workshop on Smart Grid Technologies

Detailed report at: <https://goo.gl/ILz8zW>

IEEE UP Section Annual Report for the Year 2016

Section Office Bearers:

Chairperson – Dr. J Ramkumar
Vice-Chairperson – Dr. Anoop Singh
Vice-Chairperson – Dr. R K Srivastava
Secretary – Dr. Dilip Kumar Sharma
Joint Secretary – Dr. Asheesh K Singh
Treasurer – Dr. Satish K. Singh

Section constituent bodies:

- UP Section
- Roorkee Subsection
- Nepal Subsection
- Electron Devices Society Chapter
- IE/PEL/CS Joint Chapter
- PE/IA Joint Chapter
- Electronics Devices
- Signal Processing/Computer Joint Chapter
- CAS/SSC Joint Chapter
- MTT
- CIS
- WIE AG
- 63 Student Branches

Membership:

Fellow – 2; Sr Members – 122; Life Member – 2; Life Sr Members – 3; Members -- 818; Affiliate Members – 8; Assoc. Members –17; Graduate Student Members – 762; Student Members -- 701; Total – 2135; Roorkee subsection: 337; Nepal Subsection: 40

Section Highlights:

- 25 major events including conf. were technically supported \
- 15 conference/workshop etc have been in technical co-sponsored
- About 140 Professional and Continuing Education Activities
- One of the supporting sections of R10 SYWL Congress

Website: <http://www.ieeeup.org>

Detailed report at: <https://goo.gl/M74TwW>

I Forgot

When TV came to my house. I forgot how to read books
When the car came to my doorstep, I forgot how to walk
When I got the mobile in my hand, I forgot how to write letters.
When computer came to my house, I forgot spellings
When the Ac came to my house, I stopped going under the tree for cool breeze
When I stayed in the city, I forgot the smell of mud.
By dealing with banks, I forgot the value of money.
With the smell of perfume, I forgot the fragrance of fresh flowers.
With the coming of fast food, I forgot to cook dal and rice.
Always running around, I forgot how to stop.
And lastly when I got WhatsApp, I forgot how to sleep.

“Engineers like to solve problems. If there are no problems handily available, they will create their own problems.”

— Scott Adams