

IEEE Power & Energy Society Bangalore Chapter, India



Submission of 2016 Summary of Activities for

“Outstanding Chapter Award 2016”



This page is left intentionally blank

Table of Contents

1.0	EXECUTIVE SUMMARY / NOMINATION	5
1.a	EXECUTIVE SUMMARY	5
1.b	REGION REPRESENTATIVE NOMINATION	7
2.0	ACTIVITIES	8
2.a:	TECHNICAL ACTIVITIES	8
2.a.1	2016 Biennial International Conference on Power & Energy System: Towards Sustainable Energy PESTSE-2016 (January 21st - 23rd, 2016).....	8
2.a.2	Annual Workshop 2016 held at IISc, Bangalore on 23-24 September 2016.....	9
2.a.3	HVDC Station Visit (Industrial Tour)	10
2.a.4	Youth Congress	10
2.b-	EDUCATIONAL ACTIVITIES	11
2.b.1	Technical talks.....	11
2.b.2	Distinguished Lecture Program (DLP) by Dr. Ram Adapa from EPRI at PRDC, Bangalore on 'Role of HVDC and FACTS in future Smart Electric Grid' on 27 th December 2016	14
2.c	PES / ENGINEERING PROFESSIONAL PROMOTION	14
2.c.1	Participation in the World Utility Summit.....	14
2.c.2	Thought Leadership Meeting	15
2.d	STUDENT ACTIVITIES.....	16
2.d.1	Scholarship-Plus Initiative	16
2.d.2	PES Student Chapters and Student activities.....	16
2.d.2.1	New PES Student Chapters	16
2.d.2.2	Student Competitions	17
2.d.2.3	PES Renewable Engineering in Schools Project	18
2.d.3	Workshops and Tech-talks at Student chapters	19
2.e	AFFINITY GROUPS	19
2.e.1	Young Researchers' Meet (YRM) at Amrita School of Engineering	19
2.e.2	Women in Power Engineering program.....	21



Power & Energy Society™	
2.f PES Conferences	24
2.f.1 2016 Biennial International Conference on Power & Energy System: Towards Sustainable Energy PESTSE-2016 (January 21st - 23rd, 2016).....	24
3 MEMBERS.....	25
3.a MEMBER AWARDS / RECOGNITION / NOMINATIONS	25
3.a.1 Outstanding Service Award.....	25
3.a.2 Outstanding Engineer Award	25
3.a.4 Other awards received by the chapter	26
3.b MEMBERSHIP ADVANCEMENT	26
3.c MEMBERSHIP GROWTH / RETENTION	26
4 CHAPTER OPERATIONS:	27
4.a CHAPTER WEB PAGE	27
4.b PES ONLY (non-joint) CHAPTER.....	27
5 OTHER ACTIVITIES:	28

1.0 EXECUTIVE SUMMARY / NOMINATION

1.a EXECUTIVE SUMMARY

2016 has been another eventful year for IEEE PES Bangalore chapter, continuing the momentum gained in earlier years. The activities for the year started with IEEE PES senior officials along with Region 10 and Bangalore chapter members taking active roles in 'World Utility Summit, in February, in the backdrop of Elecrama 2016, a major power event in the region. An evening dinner was organized with local power utility officials and regulatory officials with the visiting IEEE PES officials for exchange of ideas.

Several events including Student congress, Women in Power Engineering, Young Researchers' meet had a broader outreach and a large participation- leading to greater networking and enhancing the knowledge in the technical community. The DLP program was conducted by Dr. Ram Adapa who is an expert in power systems and is a Technical Executive in the Power Delivery and Utilization Sector at EPRI. Six Student Chapters were formed in local universities and colleges in 2016. A number of technical talks have been conducted, with active participation from both academia as well as industry. The chapter Execom met once every month. Following is the summary of the events and recognitions:

- 184 Members
- One International conference (sponsored)
- One National conference
- Annual workshop
- 6 Student branches started
- Industrial visit for students
- Women in Power Engineering (WiPE) event
- Young researchers' meet (YRM)
- Youth Congress
- Technical talks
- Distinguished Lecture Program (DLP)
- HPCP (High Performance Chapter Program) award
- IEEE PES Outstanding chapter Runners up Award – Large chapter category



Office bearers (2016):

Chair: **Mr. Sethuraman Ganesan**, ABB

Vice-Chairs: **Mr. Suresh V**, POSOCO

Dr. Kannan Balaraman, PRDC

Secretary: **Dr. Ajit Ghodke**, Schneider Electric

Joint Secretary: **Dr. Hariram Satheesh**, ABB

Treasurer: **Mrs. Lakshmi Balaraman**, PRDC

Joint Treasurer: **Mr. Mahesh G S**, Reva College of Engg.



Power & Energy Society™

1.b REGION REPRESENTATIVE NOMINATION

Nagaraja Ramappa
IEEE PES R-10 West Chapter
Representative
nagaraja@prdcinfotech.com

March 31, 2017

Ed. C. Carlsen
Chair, IEEE PES Awards & Resources Committee
Georgia Power Co. Bin 20020
241 Ralph McGill Blvd. NE
Atlanta, GE 30308-3374
Email: e.carlsen@ieee.org

Sub: PES Bangalore Chapter Report for Outstanding Chapter Award (Large Chapter)

Dear Mr. Carlsen,

Greetings from IEEE PES R-10 West Chapter Representative. In the capacity of Chapter Representative, I am nominating The PES Bangalore Chapter as a probable contender for the PES Outstanding Chapter Award for the work carried out in the year 2016. IEEE PES Bangalore Chapter performance during the calendar years 2016 under the leadership of Chapter Chair Mr. Sethuraman Ganesan and his Executive Committee is to be commended for its excellent service to PES members and society at large.

Highlight of the achievements of the Bangalore Chapter in support of this nomination are:

- ✓ The chapter has conducted one International conference (sponsored), One National conference, Annual workshop, started 6 student branches, arranged industrial visits to students, Women in Power Engineering (WiPE) event, Young researchers' Meet (YRM), Youth Congress, Several technical talks .
- ✓ The student activities supported and encouraged by the PES Bangalore Chapter are really commendable. It is shaping the younger minds to take up newer challenges.
- ✓ Young Researcher's Meet (YRM) is helping the researchers to clearly define their research problems, help in the literature survey and also have interaction with the subject and industry experts.
- ✓ WiPE program has helped many working women to balance the work and family life, so that they can take up newer challenges.

In summary, the PES Bengaluru 2016 performance was extraordinary. I am pleased to recognize the Chapter's excellent performance and the hard works of the Chapter's Executive Committee by nominating the PES Bangalore Chapter for the outstanding Chapter Award (Large Chapter).

Sincerely


Nagaraja Ramappa

2.a: TECHNICAL ACTIVITIES

2.a.1 2016 Biennial International Conference on Power & Energy System: Towards Sustainable Energy PESTSE-2016 (January 21st - 23rd, 2016)

Amrita School of Engineering, Bengaluru hosted the Biennial International Conference “2016 Power and Energy Systems: Towards Sustainable Energy” (PESTSE 2016), in association with IEEE Bangalore section and IEEE Power & Energy Society (PES) – Bangalore Chapter, from January 21st - 23rd, 2016.

The conference was aimed at providing a platform for researchers, scientists, industrial professionals and students to exchange and share their research accomplishments, achievements and new ideas on the contemporary and emerging trends in Power and Energy Systems, which would enable them to arrive at new ideas and techniques not only to enhance Power and Energy, but also work towards sustaining it.

The conference received 350 papers, 17 from abroad and 333 from within India, out of which 146 were selected through double blind peer review process and 134 authors registered. This three-day event, started off with the tutorial sessions conducted by experts in specific fields, in order to facilitate brainstorming discussions which were followed in the next two days.

The speakers were:

- Dr. Muhammad H. Rashid - Professor, Electrical and Computer Engineering, University of West Florida, USA,
- Dr. Joachim Holtz, Professor Emeritus and Consultant, University of Wuppertal, Germany
- Dr. Priya Ranjan Mishra, Principal Scientist, Philips India, Bangalore
- Mr. Ganapathi Devappa, CEO, Spider Opsnet, Bengaluru, India



Dr. Ralph Kennel presenting the keynote address



Power & Energy Society™

2.a.2 Annual Workshop 2016 held at IISc, Bangalore on 23-24 September 2016

This is a major event of the year 2016 organized by IEEE PES Bangalore chapter with active contribution from the entire ExeCom. It was a two-day workshop on “Energy Analytics for Smart Cities – Micro Grid, Distributed Generation and Electric Vehicles”. There were 132 participants with the blend of students, professionals and researchers. The event was supported both technically and financially by industries, utilities and research institutes. Both days of event saw active interaction between the panel members and attendees of the various sessions.



Mr. S. Ganesan, Chair, IEEE PES Bangalore chapter speaking at the inauguration of the workshop



Power & Energy Society™

2.a.3 HVDC Station Visit (Industrial Tour)



HVDC station visit

On 5th March 2016, IEEE-PES student members of RVCE, MSRIT and Reva institute of Technology had a great opportunity to visit the HVDC station in Kolar. Flowing above four rivers and 16,000 km of conductors –more than India’s land frontier –the first 100 MW reached Southern grid in August 2002 through the 1,400km HVDC line from Talcher in Orissa to Kolar in Karnataka via Andhra Pradesh and Tamil Nadu. This Talcher to Kolar HVDC link is 500KV bipolar line. Karnataka’s share is 466MW, Tamil Nadu 636MW, Andhra Pradesh 499 MW, Kerala 330MW and Pondicherry 69MW which adds up to 2000MW, the capacity of the substation. The kolar substation, spread across 65 acres of land, houses huge equipment like inverters, transformers and cooling systems etc. The visit was sponsored and organized by IEEE PES Bangalore chapter.

2.a.4 Youth Congress

On September 17th, 2016 IEEE PES student congress was conducted in a grand manner in Vidyavardhaka College of Engineering, Mysore. More than 150 participants took part in this event, with participation from major engineering colleges in the state. The event comprised of expert lectures, paper and project presentation contests. This helped the participants to become aware of the state of the art technologies and solutions in the field of Power and Energy.



Youth Congress at VVCE, Mysore

2.b- EDUCATIONAL ACTIVITIES

2.b.1 Technical talks

Technical talks at PRDC, BMS Engineering College, and Amrita University are some of the technical talks held in this year. This will continue in the next year as well. These talks triggered motivation for the budding engineers to excel their career in Power and Energy sector and spread more awareness on the specific areas for professionals.

Technical talk on "Harmonic mitigation and interaction with power factor capacitor" by Dr. Uma Rao, Professor/RVCE and IEEE PES Bangalore Chapter Execom member was held on 19th August, 2016 with around 41 participants in attendance along with final year students of REVA University.



Technical talk by Dr. Uma Rao on 'Harmonic Mitigation and Interaction with Power Factor Capacitor'



Technical talk by Dr. Sudarsan, ABB on 'IoT in Power Systems' at PRDC



Technical talk by Dr. S. S. Murthy, on 'Power Engineering and Education' at BMSCoE

A Technical talk on "Power Engineering and Education" was conducted at BMS College of Engineering in association with IEEE PES Bangalore Chapter on 29th August 2016 at 3.00pm. There were around 100 members in the audience including faculty and students of BMS College of Engineering.



Technical talk by Dr. Rajashekhar P. Mandi, on 'Energy Management and Audit' at Amrita School of Engineering



Power & Energy Society™

A technical talk was delivered by Dr. Rajashekar P Mandi, Director, School of Electrical Engineering, Reva Institute of technology, Bangalore on 'Energy management and audit' at Amrita School of Engineering, Bangalore on 30th September 2016. He threw light on why we need to conserve energy and broadened our knowledge on different ways of efficient utilization of energy. The seminar gave a glimpse on the increasing need for energy conservation in the present scenario. He spoke about the various light efficient techniques such as CFLs, LED lamps, different electronic ballasts which could reduce the load amount by a higher margin and also stressed upon statistics when different energy efficient techniques were observed. The session was very interactive, informative and gained the applause of the audience comprising students and faculty of more than 50.

2.b.2 Distinguished Lecture Program (DLP) by Dr. Ram Adapa from EPRI at PRDC, Bangalore on 'Role of HVDC and FACTS in future Smart Electric Grid' on 27th December 2016

The DLP program was graced by an expert lecture from Dr. Ram Adapa, IEEE fellow and Technical Executive, HVDC & Power Electronics, EPRI, Palo Alto, CA, USA. His presentation provided the state-of-the-art in HVDC and FACTS technologies and discusses the new applications of HVDC and FACTS, and new converter developments such as modular multilevel VSC converters. Dr. Adapa also interacted with the EXECOM members and shared his ideas about the chapter activities.

2.c PES / ENGINEERING PROFESSIONAL PROMOTION

2.c.1 Participation in the World Utility Summit

IEEE PES senior officials along with Region 10 and Bangalore chapter members participated actively in the 'World Utility Summit' (<http://www.worldutilitysummit.org>) between 14-16 February 2016, in the backdrop of Elecrama 2016, a major power event in the region. Mr. S. Ganesan, chapter chair moderated a session on "Utility Management and Business Model Innovations".

CASE IN POINT SESSION: UTILITY MANAGEMENT AND BUSINESS MODEL INNOVATIONS

Case study 1: Shri. L. Chuaungo, IAS, Principal Secretary, Energy and Petrochemical Department - Government of Gujrat, India
Turnaround of Gujrat State Distribution Companies

Case study 2: Mr. Anup Mondal, Senior Executive Vice President - Reliance ADA, India
Journey Towards Excellence – Experience from Private Distribution Company

Case study 3:
Mr. Babu Babel, President – IEEMA, India
Mr. Kaushik Ghosh, Director – Utilitia Group Limited, UK

Session moderated by: Mr. Sethuraman Ganesan, IEEE PES Bangalore Chapter Chair, India

Dr. K. Tinnium, past chapter chair and Execom member moderated a session on "Demand Paradigms".

PLENARY 2 - DEMAND PARADIGMS

Mr. Sharma Kolluri, Transmission Technical System Planning - Entergy Services, USA

Disruptive technologies impact on utility demand & growth

Dr. Rahul Tongia, Fellow – Brookings, India

Consumer as supplier: Prosumer Impacts

Mr. Prince Moyo, Power Delivery Engineering - Eskom, South Africa

Business models: Utilities of the future

Session moderated by: **Dr. Kannan Tinnium, Past Chair - IEEE PES Bangalore Chapter, India**

2.c.2 Thought Leadership Meeting

An evening dinner meeting was organized on 15th February 2016 with local power utility officials and regulatory officials with the visiting IEEE PES officials in connection with Elecrama / World Utility Summit 2016, happening in BIEC, Bangalore between February 13-16th. The meeting was mainly attended by senior IEEE and IEEE PES leaders such as Dr. Jessica Bian, Dr. Richard O'Neil, Mr. Sharma Kolluri, Mr. Hardev Jul, Dr. Jay Giiri, Mr. Massoud Amin, Mr. Harish Mysore, and Mr. V Subba Rao. The meeting witnessed excellent discussions and brainstorming about the issues faced by power and energy community and ways in which IEEE PES technical community can contribute in solving them.



Thought leadership meeting



Power & Energy Society™

2.d STUDENT ACTIVITIES

2.d.1 Scholarship-Plus Initiative

The chapter has contributed to the IEEE PES Scholarship program which is a new initiative from the IEEE PES headquarters to identify and assist bright students. IEEE PES Bangalore Chapter has contributed from its own resources, Rs. 3 lakh towards IEEE PES India Scholarship Award (IPISA) fund to support one student for 4 years.

2.d.2 PES Student Chapters and Student activities

2.d.2.1 New PES Student Chapters

Six new PES student chapters were formed at the following education institutes in 2016.

- REVA University, Bangalore
- Christ University, Bangalore
- Vidya Vardhaka College of Engineering, Mysore
- Basaveshvara Engineering College, Bagalkot
- Global Academy of Technology, Bangalore
- GSSS Institute of Engineering & Technology for Women, Mysore

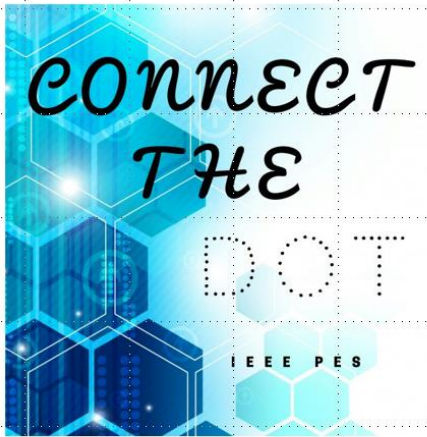


Student Chapter Inauguration at Reva University, Bangalore

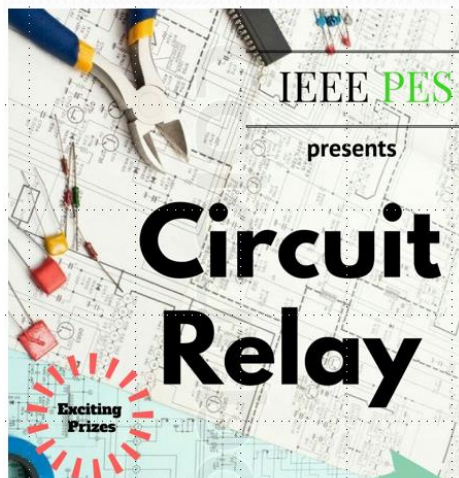
2.d.2.2 Student Competitions

IEEE PES Student chapter branch at M S Ramaiah Institute of Technology (MSRIT) organized following 2 competitions which saw excellent participation from students:

1. Connect the Dots (a digital treasure hunt) on 22nd September 2016



2. Circuit Relay (a circuit design contest) on 3rd December 2016





Power & Energy Society™

2.d.2.3 PES Renewable Engineering in Schools Project

The MSRIT PES student chapter is also participating in “PES Renewable Engineering in Schools Project” and is nominated among the 49 student chapters that will receive educational kits to visit schools and teach renewable energy with the PES support.

IEEE PES Renewable Engineering in Schools project result: Region 10

University	PES student chapter name	IEEE Student Branch name	IEEE section	IEEE Region	City	State	Country
1 M. S. Ramaiah Institute of Technology	IEEE MSRIT PES STUDENT CHAPTER	IEEE MSRIT STUDENT BRANCH	Bangalore Section	Region 10	Bangalore	Karnataka	India
2 Gujarat technological University	Gujarat Section	Ldp	Gujarat	Region 10	Anneusabad	Gujarat	India
3 JAMIA MILLIA ISLAMIA	JAMIA MILLIA ISLAMIA, FACULTY OF ENGG & TECH	IEEE JMI	IEEE DELHI SECTION	Region 10	NEW DELHI	NEW DELHI	INDIA
4 Guru Gobind Singh Indraprastha University	IEEE NIEC PES	IEEE NIEC	Delhi Section	Region 10	West Delhi	Delhi	India
5 SRI SAIRAM ENGINEERING COLLEGE, ANNA UNIVERSITY	SRI SAIRAM ENGINEERING COLLEGE PES SB CHAPTER	SRI SAIRAM ENGINEERING COLLEGE SB	IEEE MADRAS SECTION	Region 10	CHENNAI	TAMILNADU	INDIA
6 Maharaja Surajmal Institute of Technology	Maharaja Surajmal Inst of Tech	Maharaja Surajmal Inst of Tech	Delhi Section, India	Region 10	New Delhi	Delhi	India
7 G. H. Patel College of Engineering and Technology(GCET)	GCET IAS & PES JOINT Chapter	IEEE GCET SB	GUJARAT	Region 10	ANAND	GUJARAT	INDIA
8 Parul University	IEEE Parul University PES Student Chapter	IEEE Parul University Student Branch	Gujarat Section	Region 10	Vadodara	Gujarat	India
9 Uniten	PES Uniten SB	IEEE uniten SB	Malaysia	Region 10	Johor Bahru	Johor	Malaysia
10 Universiti Kebangsaan Malaysia	IEEE PES UKM SB Chapter	IEEE UKM SB	Malaysia	Region 10	Bangi	Sealangor	Malaysia
11 Ned University of Engineering and Tech	IEEE PES Neduet Branch	IEEE Neduet Student Branch	Karachi Section	Region 10	Karachi	Sindh	Pakistan
12 COMSATS Institute of Information Technology, Abbottabad Pakistan	IEEE PES CIIT Chapter Abbottabad	IEEE CIIT SB Abbottabad	Islamabad Section	Region 10	Abbottabad	khyber paktunkhwa (KPK)	Pakistan
13 International Islamic University Islamabad	IEEE PES International Islamic University Student Chapter	IEEE International Islamic University Student Branch	Islamabad Section	Region 10	Islamabad	Islamabad Capital territory	Pakistan
14 National University of Computers and Emerging Sciences-Karachi	Nat Univ Computer & Emerging Sci-Karachi	National Univ Computer & Emerging Sciences-Karachi	Karachi	Region 10	Karachi	Sindh	Pakistan
15 National University of Singapore	IEEE NUS Student Branch Singapore Chapter	PES NUS Student Branch Singapore Chapter	Singapore	Region 10	Singapore	Singapore	Singapore
16 University of Moratuwa	University of Moratuwa	University of Moratuwa	Sri Lanka	Region 10	Horana	Western Province	Sri Lanka

PES MEMBER-DRIVEN INITIATIVES



Power & Energy Society®



2.d.3 Workshops and Tech-talks at Student chapters

Following are the Technical talks and workshops given/organized by Student chapters:

Date	Description / Title
Apr 02, 2016	Technical talk by Dr. Balaraman at Vidyavardhaka College of Engg., Mysore
Jul 13, 2016	Technical talk by Dr. Balaraman at Christ University, Bangalore
Aug 27, 2016	Technical talk by S. Ganesan at Basaveshvara Engg. College, Bagalkot
Aug 29, 2016	Technical talk, 'Power Engineering and Education' by Prof. S. S. Murthy, at BMS College of Engineering, Bangalore
Sep 30, 2016	Technical talk, 'Energy Management and Audit' by Dr. Rajashekar P Mandi, at Amrita University
Oct 07, 2016	Technical talk by Dr. Balaraman at GSSS Institute of Engineering & Technology for Women
Nov 06, 2016	Technical Talk, 'Harmonic Mitigation and Interaction with Power Factor Capacitor', by Dr. Uma Rao, RVCE at RV College of Engineering
Nov 07, 2016	WIPE Talk, 'Work life balance for women', by Dr. Uma Rao, RVCE at RV College of Engineering

2.e AFFINITY GROUPS

2.e.1 Young Researchers' Meet (YRM) at Amrita School of Engineering

IEEE PES Bangalore chapter organized “Young Researchers Meet” on 17th December 2016 at Amrita School of Engineering, Amrita University, Bengaluru Campus. B.Tech , M.Tech Students from different colleges and professional researchers from various companies participated in the meet along with faculty of Department of EEE, Amrita School of Engineering. The session started with welcome address by Dr. K. Deepa, Assistant Professor, mentor of IEEE PES and IAS joint student branch chapter, Amrita school of Engineering and then the session was headed by Dr. Suresh H Jangamsetti, Professor & Senior Member IEEE, Basavaeshwara Engineering College, Bagalkot. Dr. Suresh gave a brief idea on how to draft a technical paper, pre-requisites for writing a paper and how to develop fundamentals in research tools. The next session was carried forward by the eminent speaker Dr. Balaraman K, PRDC, Vice Chair of IEEE PES-Bangalore Chapter. He discussed about various emerging trends for research in the field of Renewable Energy and Microgrid. He also guided the participants in how to develop a research mindset along-with that he stated that collaborative approach is the key for any research fields and how much it is important to connect with your peers so that exchange of ideas can be carried forward which is must for research field.



Power & Energy Society™

The next session for the day was taken by Dr. Manohar Singh, CPRI who gave a brief idea on “Protection requirement for Modern Power Delivery Systems.” He gave an overview of protection in DC Microgrids and need for adaptive protection in micro-grid along with that he stated the relation between penetration of renewable energy and CTI. Later the session was continued by Dr. Hariram Satheesh, ABB & Dr. T. Ilamparithi, OPAL-RT. They threw light on “Enabling Technologies for Power and Energy Sector - an overview.” Dr. Faraz, PRDC gave insights on “PMU Related Research Opportunities” and he also discussed about layout of PDC in smart grid architecture and with this all sessions by eminent speakers came to an end. After these informative sessions by speakers, a vigorous mentoring session was conducted to provide in-person interaction to all the participants with the speakers so that they can clarify their doubts and for that seven panels were formed covering various topics for discussions like power system reliability, power system operation, microgrids, power electronics & drives and technical writing. The main crux of this mentoring session was to give a broad prospective to researchers and to let them know that a research should not be confined to a small area but it should have cover each & every aspects of area of research.

The meet was concluded with vote of thanks by Dr. T. Ilamparithi, felicitation of the speakers by Ms. Mini Sujith, Vice Chair, Department of EEE and Dr. K. Deepa and distributing certificates to the participants by Dr. Balaraman K. and Dr. Suresh.



YRM at Amrita School of Engineering



YRM session at Amrita School of Engineering

2.e.2 Women in Power Engineering program

IEEE PES Student chapter GSSSIETW, Mysuru hosted IEEE PES workshop on “Women in Power Engineering” in association with IEEE PES chapter, Bengaluru on 16th December 2016 at GSSS Institute of Engineering and Technology for Women. This event was inaugurated by Chief guest Dr. Uma Rao, R-10 Coordinator, Student Activities, Bengaluru and Guest of honor Dr. Madhurima Das, Research consultant and HRM trainer, Bengaluru. The program was presided by Dr. Reshma Banu, Prof & Head, Dept of ISE. Faculty members from various engineering colleges also took part in the function. The purpose of this event is to empower the women to advance their career and discuss the value of building strong relationship with community, Manage responsibilities at work and home and strike a balance, Manage changes in work place and environment, and Provide a platform for women technologists to share their experiences and ideas.

S. No.	Speaker	Topic
1	Dr. Uma Rao K R-10 Coordinator, Student Activities, Bengaluru	Creating Identity and work life balance
2	Dr. Madhurima Das Research consultant and HRM trainer, Bengaluru	Young women and career
3	Dr. Shubha B N Asso. Prof. MBA,BMSCE, Bangalore	Empowerment and career growth
4	Mrs. Rukmini Chandran Director, Nation Adventure foundation, Karnataka Chapter	Leadership among women
5	Dr. Sarika Prasad Aditya Adhikaari Hospital,Mysuru	Health issues of working women



Dr. Uma Rao, R-10 Coordinators, Student activities,IEEE PES, delivering Key note address.



Dr. Madhurima Das, Research consultant and HRM trainer, delivering the talk



Participants at WiPE event, Bangalore

2.f.1 2016 Biennial International Conference on Power & Energy System: Towards Sustainable Energy PESTSE-2016 (January 21st - 23rd, 2016)

Amrita School of Engineering, Bengaluru hosted the Biennial International Conference “2016 Power and Energy Systems: Towards Sustainable Energy” (PESTSE 2016), in association with IEEE Bangalore section and IEEE Power & Energy Society (PES) – Bangalore Chapter, from January 21st - 23rd, 2016.

The conference was aimed at providing a platform for researchers, scientists, industrial professionals and students to exchange and share their research accomplishments, achievements and new ideas on the contemporary and emerging trends in Power and Energy Systems, which would enable them to arrive at new ideas and techniques not only to enhance Power and Energy, but also work towards sustaining it.

The conference received 350 papers, 17 from abroad and 333 from within India, out of which 146 were selected through double blind peer review process and 134 authors registered. This three-day event, started off with the tutorial sessions conducted by experts in their fields, in order to facilitate brainstorming discussions which were followed in the next two days.

The speakers were:

- Dr. Muhammad H. Rashid - Professor, Electrical and Computer Engineering, University of West Florida, USA,
- Dr. Joachim Holtz, Professor Emeritus and Consultant, University of Wuppertal, Germany
- Dr. Priya Ranjan Mishra, Principal Scientist, Philips India, Bangalore
- Mr. Ganapathi Devappa, CEO, Spider Opsnet, Bengaluru, India



Mr. S. Ganesan, Chapter chair felicitating Prof. M. H. Rashid

3.a MEMBER AWARDS / RECOGNITION / NOMINATIONS

3.a.1 Outstanding Service Award

IEEE PES Bangalore chapter recognized the services of **Mr. Jagannath Gupta**, in the power engineering field and presented him with "Outstanding Service Award". This is an annual award which is given to an eminent engineer for the services in the field of Power Systems in Karnataka (under the jurisdiction of Bangalore chapter).



Mr. Jagannath Gupta, Recipient of the Outstanding Service Award

3.a.2 Outstanding Engineer Award

Dr. K. Balaraman was presented with the "Outstanding Engineer Award" for his immense contribution to Power and Energy engineering field and his leadership role in the growth of IEEE PES Bangalore chapter.



Dr. K. Balaraman, Recipient of the Outstanding Engineer Award

3.a.4 Other awards received by the chapter

The chapter was awarded a **Runner-up position at 2015 IEEE Outstanding Chapter Awards**. It also received the **HPCP Award – 2015**.

3.b MEMBERSHIP ADVANCEMENT

Two of the Execom members have been entrusted with the responsibility of membership advancement activities. In order to encourage students to take active role in IEEE/PES for sustainable growth of membership in PES in the long run, we encouraged actively formation of student chapters in Bangalore chapter with formal inauguration done in 6 colleges / universities, viz., Reva Univeristy (Bangalore), Christ Univeristy (Bangalore), GSSSIETW (Mysore), VVCEW(Mysore), Global Institute of Technology (Bangalore) and BEC(Bagalkot). While the existing members are from Academic institutions and industries, it is recognized that a large number of engineers in utilities are not taking active roles in IEEE PES. Hence we have initiated dialogues with major utilities like KPTCL, BESCOM etc. to enroll themselves in IEEE/PES.

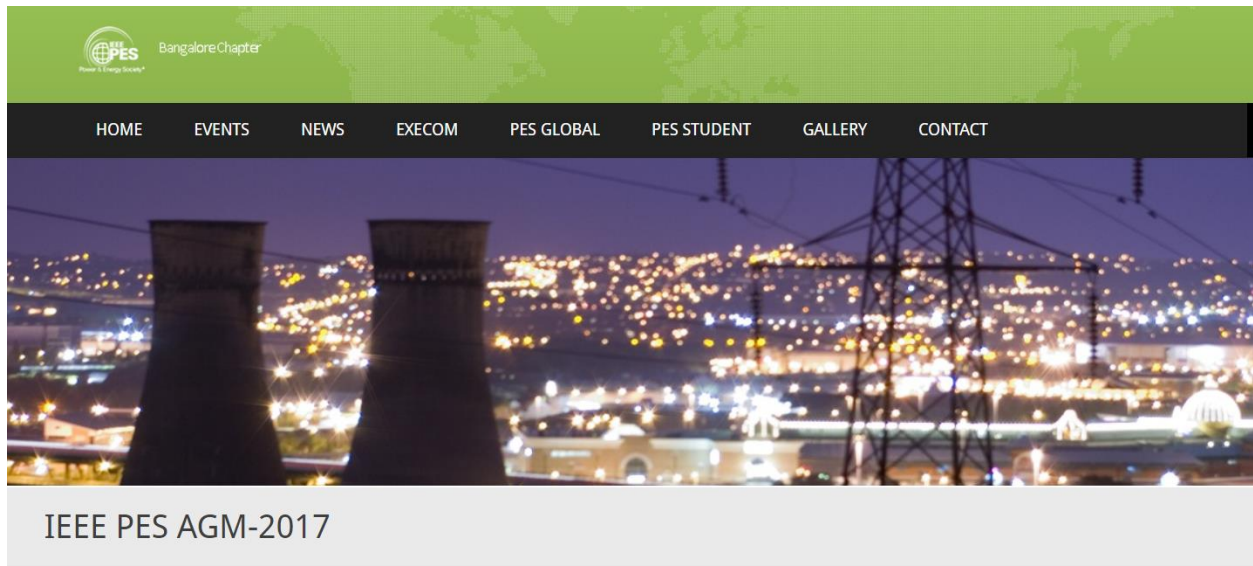
3.c MEMBERSHIP GROWTH / RETENTION

In 2016, the chapter had 185 members of whom about 50 were senior members. The chapter has actively participated in the IEEE Bangalore chapter's initiative for Senior Member Elevation (Simple-8). The chapter has prominently promoted and endorsed IEEE at every major technical and student chapter event to attract undergraduate students as well as experienced engineering professionals. The execom team is in the process of identifying, checking the credentials and doing the paper work of two members with good chances to be elevated to the rank of Fellows.

4 CHAPTER OPERATIONS:

4.a CHAPTER WEB PAGE

IEEE PES Bangalore has an active web page, which is continuously updated under the guidance of one of the Execom members (Link: <http://www.ieeeepesbangalore.org>). Major contents of the website are current execom with their contact details, announcements for upcoming activities and a photo gallery.



Upcoming Events

Calendar

Archives

In addition to the chapter webpage, IEEE PES Bangalore also maintains an Execom mailing list (ieeeepesblrexcom@listserv.ieee.org). It also notifies the chapter members regularly about the upcoming activities.

4.b PES ONLY (non-joint) CHAPTER

Bangalore Chapter with nearly 200 members is a PES only chapter and falls under large chapter category.

5 OTHER ACTIVITIES:

A Day-long ExeCom meeting at Royal Orchid Resorts, Bangalore on 3rd April, 2016 was organized for extensive brainstorming on the various activities that the ExeCom was planning to execute in the year 2016. A tentative calendar of events was prepared and the members nominated themselves for various activities.



IEEE PES Bangalore chapter looks forward to sustained growth in its activities in the years to come, helping the country take **'Power to People through the Power of Knowledge'**.

The chapter has some significant plans for the year 2017:

1. Bangalore chapter will host IEEE PES sponsored "Asia Pacific Power and Energy Engineering Conference 2017- APPEEC2017, at Bangalore in November 2017. Preliminary work is in progress
2. Global Academy of Technology in Bangalore will host "IEEE-International Conference on Smart grids, Power and Advanced Control Engineering (ICSPACE2017)" during August 17th to 19th, in association with our Chapter and IEEE Bangalore Section

In addition to the above, the chapter plans to conduct a number of other programs, similar to what is reported for the year 2016, especially student congress, WIPE, YRM etc.



Submitted on behalf of IEEE PES Bangalore Chapter by:

Sethuraman Ganesan

Chair: IEEE PES Bangalore Chapter

Ph: +91 99014 99033

Email: sethuraman.ganesan.in@ieee.org