

IEEE Hyderabad Section
Section Report – 2018
For the period from 1/Jan/2017 to 31/Dec/2017

Contents

SECTION REPORT – 2018	1
Part A – Section Summary.....	2
A.1 Executive Summary	2
A2: Financial Report.....	5
Part B: Organizational Activities.....	5
B1: Membership Development Activities	5
B2: Chapter Activities.....	6
B3. Professional and Continuing Education Activities.....	11
B4. Students Activities	13
B5. Affinity Group Activities.....	17
B6. Awards and Recognitions Activities.....	18
B7. Communication Activities	18
B8. Industry Relations	19
B9. Humanitarian Technology Activities	19
B10. Community Activities.....	19
Part C: Others.....	19
C1. Special Events	19
C2. Relationship with Other Societies and NGOs.....	21
C3. Collaboration with other IEEE Sections.....	21
C4. Support Extended to Subsections and Chapters within the Section.....	21
C5. Best Practices	21
C6. Problems and Suggestions	22
Part D: Goals and Plans	22
A Time to Shape Our Future	22

Part A – Section Summary

A.1 Executive Summary

1. Section Executive Committee Member List

Section Executive Committee			
<u>Designations</u>	<u>Name</u>	<u>Organization</u>	<u>Membership No.</u>
Chairman	Lakshminarayana Merugu	DLRL (Retd.)	SM 00573006
Vice-Chairman	PVS Maruthi Rao	Vidcentum R&D Pvt Ltd.	SM 41249040
Secretary	N. Venkatesh	Redpine Signals	SM 41506407
Treasurer	Sreenivas Jasti	TCS	M 41250549
Member	Akilan V	Premier Engg. Corporation	SM 08786931
Member	Shatrunjay Rawat	IIIT Hyderabad	SM 40083036
Member	Polisetty Lakshmana Rao	DLRL (Retd)	SM 40296160
Immediate Past Chair	Koduri Srinivas	NRSA (Retd.)	SM 41274471
Computer Society Chapter			
Chairman	Bala Peddigari	TCS , Hyderabaad	M 90578910
Vice-Chairman	Vijayalatha	GRIET	SM 92115803
Secretary/Treasurer	MA Jabbar	Vardhaman College of Engg.	M 91119906
COMSOC/SP Society Joint Chapter			
Chairman	Sanjeev Nimishakavi	Qualcomm	M 80250684
Vice-Chairman	Kasyapa Balemorthy	OFS Optics	M 90286547
Secretary	GVV Sharma	IIT Hyderabad	M 90539415
Treasurer	D Naga Raju	Matrusri Engineering College	M 92937395
Member	Abhinav Kumar	IIT Hyderabad	M 80358261
Computational Intelligence/Geoscience and Remote Sensing Societies Joint Chapter			
Chairman	Naresh Kumar	NRSA	SM 92101512
Vice-Chair	K.S. Rajan	IIIT-H	M92104718
Secretary/Treasurer	Dr T Hitendra Sarma	Faculty	M 91168866
CAS/EDS Joint Chapter			
Chairman	Kaleem Fatima	MJCET, Hyderabad	SM 41424639
Vice-Chairman	Arifuddin Soheli	MJCET, Hyderabad	M 90871309
Secretary/Treasurer	A Krishnakant	Austria Micro Systems	M 80574345

Education Society Chapter			
Chairman	Nookala Srinivasa Rao	Mathrusri Engg College	SM 85017068
Vice-Chair	Venkatesh Choppella	IIIT Hyderabad	M 92015287
Secretary	D. Rama Krishna	Osmania University	92130488
Treasurer	S Vasu Krishna	Geethanjali College	92083753
MTT/AP/EMC Society Joint Chapter			
Chairman	Yogesh Kumar Verma	RCI	M 90392860
Vice-Chairman	Ch. Viswanadham	BHEL, Hyderabad	SM 92687001
Secretary	Ananatha Bharathi	Osmania University	M 9053823
Treasurer	Prashant Mishra	RCI	M 92525515
PES/IAS/PELS Society Joint Chapter			
Chairman	Kuppa Gopala Krishna	Consultant	M 80168118
Vice-Chairman	K.Santosh Kumar	BSNL	M 92146216
Secretary	R U Srujana	M J CET	M 90476558
Treasurer	C Rachappa	TRANSCO	M 91269380
Photonics Society Chapter			
Chairman	P. Venkata Ramana	Vasavi College of Engineering	M 92479254
Vice-Chairman	K. Indusekhar	RCI	M 92486559
Secretary/Treasurer	Pradeep Kumar	RCI	M 92530547
Technology and Engineering Management Society			
Chairman	Jose R	TCS	M 91129303
Vice-Chairman	J S Kalevendi	SITS Nalgonda Dist	SM 08126252
Secretary	Sitaram Tadepalli	TCS	M 93749937
WIE Affinity Group			
Chairperson	Vijayalakshmi Biradar	VITS, Hyderabad	SM 92478983
Vice-Chairman	Poojitha Vasagiri	NTT Data	M 93095812
Secretary	Vyshali sagar	Waterhouse Coopers	
Treasurer	Krishna Veni	TCS	93698155
Young Professionals Affinity Group			
Chairman	Vinit Kumar Gunjan	AITS, Rajampet	M 92020956
Vice-Chairman	Saurabh Jain	CGI	M093988396
Secretary	Sanmithra Mudigonda	TIBCO Software India	92406888
Treasurer	Fahimuddin Shaik	AITS, Rajampet	93602052
SIGHT Affinity Group			
Chairman	Bhudeb Chakravarti	ThoughtWorks	SM 80393354

Vizag Bay Sub-Section			
Chairman	Abraham Varghese	NSTL, Visakhapatnam	92536131
Vice-Chairman	K.V. Sriram	Andhra Electronics, Kakinada	80722944
Secretary	Malapaka Vijaya	NSTL, Visakhapatnam	92784897
Treasurer	Satheesh Patchikolla	MVGR College of Engg	93723412
Member	N. Deepika Rani	GVP College of Engineering	93372269
Member	K Padma	Andhra University	93539847
Member	T.S.N. Murty	JNTUK at Vijayanagaram	SM 90399100
Member as per bylaws	Lakshminarayana Sadasivuni	Past Chairman of Vizag Subsection	SM 80536573
Guntur Sub-Section			
Chairman	P.Siddaiah	Acharya Nagarjuna University	93001934
Vice-Chairman	D.Ramakrishna	EFFTRONICS	80310346
Secretary	Lalitha S V N L	K L University	90306032
Treasurer	E.Sreenivasa Reddy	Acharya Nagarjuna University	80345589
Member	M.Z.Rahman	ECE Dept, KITS, Guntur	SM90672471
Member	Ramadevi Neerukonda	BAPATLA Engg.College	92937329
Ananthapuramu Sub-Section			
Chair	V Sankar	DFA & AM JNTUA	SM 90339465
Vice-Chair	YV Siva Reddy	Dept. of EEE, GPREC, Kurnool	M 91204289
Secretary	C Shoba Bindu	Dept. of CSE, JNTUACEA	SM 91242973
Treasurer	J Srinivasa	Dept. of EEE, JNTUACEA	M 92358968
Standing Committees, and Other Roles			
Students Activities - Chair	D. Venkata Rami Reddy	Geethanjali College	M 85031602
Membership Development - Chair	Madhav Negi	DXC Technology	SM 41570141
Awards and Nominations Committee - Chair	Koduri Srinivas	NRSA (Retd.)	SM 41274471
Section Newsletter			
Chief Editor	Rajagopalan Kannan		SM 40159914
Editor	Arifuddin Sohel	MJCET, Hyderabad	M 90871309
Conference Committee			
Chair	NV Rao	CVR College of Engg	LSM 04649539
Member	C Satish	IDPL (Retd.)	LSM 06807036
Member	Lakshminarayana Sadasivuni	NIO, Vishakhapatnam	SM 80536573
Skill Development Committee - Chair	Ravi Shankar	IIIT, Hyderabad	M 92134939
Industry Relations Committee - Chair	P Laxman Rao		M 40296160
Section Student Representative	S Sai Thejeshwar	SNIST, Hyderabad	93838604

2. Section Highlights and Activities

Hyderabad Section has over 6,000 members, is represented by 9 Chapters, representing 16 Technical Societies; and two Affinity Groups, and organized **over 180 events in 2017 with a total of over 13,000 attendees**; making it one of the largest and most vibrant Sections in this Region.

The Section has under its fold, three subsections – Vizag Bay, Guntur, and Ananthapuramu.

The Section’s Flagship event is the Faraday Memorial Lecture, which, in 2017 was delivered by Vahid Madani, IEEE Fellow, on “Future of Power Systems” on Friday, 10th November.

Various Chapters also had their Flagship Events supported by the Section. The Chapters also organized and conducted a large number of technical and professional events. These include:

- The Seventh Annual Alexander Graham Bell Memorial Lecture organized by the Communications Society and Signal Processing Society Joint Chapter as its Flagship Event was delivered by Prof. K Giridhar of IIT Madras on “Reliable Wireless Access in the UHF Band by Enabling Multi-Operator Spectrum Sharing” on Friday, 3rd March, 2017.
- A Distinguished Lecturer Event with a talk on “Security Challenges and Opportunities in SDN/NFV and 5G Networks” by ComSoc Distinguished Lecturer Ashutosh Dutta was organized on 15th March, 2017.
- The Women in Engineering Affinity Group organized a National Leadership Conference on 16th December, 2017.
- The Young Professionals Affinity Group conducted a two-day Research Workshop on 26th and 27th August, 2017.
- The Industry Relations Committee conducted a one-day workshop on “Emerging Trends in Intelligent Machines” on 2nd December, 2017.
- The Second John McCarthy Memorial Lecture organized by the Computational Intelligence Society and Geoscience and Remote Sensing Society Joint Chapter was delivered by Prof. Raghu Krishnapuram on 18th November, 2017.
- The Section Student Congress was held on the 4th and 5th of November, 2017 and saw an attendance of over 110. The Chief Guest was Mr. JA Chowdary, IT Advisor to the Government of Andhra Pradesh.
- The JC Bose Memorial Lecture on “Emerging Applications of MM-Wave Frequencies” by Prof. Shibam Koul, IIT Delhi & Fellow, IEEE; IEEE Regional Coordinator for India & Sri Lanka. On 23rd December, 2017.

3. Awards and Recognitions

Section Members received several significant awards. These include:

- 2017 IEEE R10 Outstanding Volunteer Award - Koduri Srinivas
- 2017 IEEE R10 Outstanding Student Volunteer Award – Shaik Suraiah Thaseen
- 2018 CIS Outstanding Chapter Award – CIS Chapter
- Darren Chong Award - MVSR Student Branch
- IEEE Computer Society Richard E Merwin Scholarship Award – Sai Thejeshwar

A2: Financial Report

In summary, the Section received an income of Rs 48,36, 275 (over Rs forty eight lakhs) and incurred expenditure totalling Rs 40, 48,805 (over Rs forty lakhs).

Though nominally the report shows Rs 7,87,470/- as Excess income over expenditure, IEEE SIGHT expenditure Rs 94,382 against the receipt of Rs 6,18,745. The difference of this money may not be considered as excess income. As the SIGHT projects progress, this money would be spent.

The Section Financial Report has been separately filed via Net Suite.

Part B: Organizational Activities

B1: Membership Development Activities

Over the past three years, the Section has seen a steady increase in higher grade membership while also growing overall membership. The figures are below:

<u>Year</u>	<u>Fellow</u>	<u>Senior M.</u>	<u>Member</u>	<u>GSM</u>	<u>AM</u>	<u>Higher Grade subtotal</u>	<u>Student</u>	<u>TOTAL</u>
2017	7	216	1591	457	35	2306	3618	5924
2016	8	191	1502	622	39	2362	4064	6426

2015	7	147	1496	460	84	2194	2935	5129
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Section Membership has grown after we have appointed a Chair-membership activities. This is visible in the growth of professional members.

As part of Section Future Directions Committee recommendations, it has been suggested to hold activities targeted specifically towards each segment, instead of the one size fits all approach currently prevalent. Sufficient awareness has been created among all the chapters and affinity groups. This has led to brand new programs of “Research Forums” that are being conducted specifically for GSMs. Hot topics workshops have been conducted that are members only, thus highlighting the benefit of memberships. Chair Membership distributed chapter specific presentations to each chapter so they can independently speak from the ppt at their events.

2018 plans including holding a special flagship event under each society chapter, that is a Section Society Congress of that society with a set of events along with a flagship talk. The first one held by Hyderabad Section - Computer Society chapter in first week of 2018 was a blazing success with tremendous interest in members. For 2018 a membership development committee will be formed. With three subsections, each subsection has been asked to identify a Chair membership development.

Membership development is perceived as a lateral activity under part of every society and affinity group therefore all activities have been merged as part of the organizational unit conducting the event. No L31 was filed separately for membership activities. No special budget head was assigned.

B2: Chapter Activities

There are a total of sixteen (16) societies represented in a total of nine (9) chapters and joint chapters in Hyderabad Section. 2017 saw the addition of the Geosciences and Remote Sensing Society into a joint chapter along with Computational Intelligence Society – thus converting the CIS Chapter into a CIS/GRSS Joint Chapter.

In addition, the membership of the Section extends into Societies not represented by a Chapter or Joint Chapter – in all, thirty nine (39) Societies have members in Hyderabad Section.

We are happy to note that **all** chapters and joint chapters have exceeded the minimum number of technical meetings required each year.

The following sections list the summary of chapter activities for 2017.

1. Computer Society Chapter

No.	Event Title	Event Date	Event Category
1	Comprehensive Perspective of Digital Ecosystem	16-Dec-2017	Technical
2	Software Reliability Assessment and Its Usefulness	12-Nov-2017	Technical
3	workshop on data analytics using R	27-Oct-2017	Technical
4	Improved Genetic Algorithms for Channel Allocation in Mobile Computing	21-Sep-2017	Technical
5	Writing Effective White Papers	17-Sep-2017	Technical
6	Demystification of Digital Transformation	10-Sep-2017	Technical
7	IEEE Technical Workshop: Artificial Intelligence and Machine Learning	29-Aug-2017	Technical
8	Basics of Quantum Information and Computation	20-Aug-2017	Technical
9	Web Development Sessions - Phase 4	16-Aug-2017	Technical
10	Web Development Sessions - Phase 3	10-Aug-2017	Technical
11	Web Development Sessions - phase 2	08-Aug-2017	Technical
12	Web Development Sessions - phase 1	01-Aug-2017	Technical
13	Convolutional Neural Networks and Deep Machine learning	26-Jul-2017	Technical
14	The Internet of Everything and Industrie 4.0 Revolutions	23-Jul-2017	Technical
15	Agile in Today's World	16-Jul-2017	Professional

16	FACULTY DEVELOPMENT PROGRAM ON EMERGING TRENDS IN COMPUTER SCIENCE & ENGINEERING	08-Jun-2017	Technical
17	Tips and Tricks of C Programming Language	24-Mar-2017	Technical
18	A Trip to Tech Mahindra	24-Mar-2017	Professional
19	ADASTRA'17 - A National Level Techno-Management-Literary-Robotics Symposium	23-Jan-2017	Technical
20	WORKSHOP ON BIG-DATA	03-Jan-2017	Technical

4. Communications Society and Signal Processing Society Joint Chapter

<u>No.</u>	<u>Event Title</u>	<u>Event Date</u>	<u>Event Category</u>
1	Polar Codes	23-Sep-2017	Technical
2	LDPC Codes	17-Sep-2017	Technical
3	Workshop on "Turbo Codes"	16-Sep-2017	Technical
4	Coding Theory Addresses the Challenges of Big Data Storage	16-Sep-2017	Technical
5	Workshop on "The Viterbi Algorithm in Equalization and Modulation"	09-Sep-2017	Technical
6	Workshop on "Principles of Channel Coding"	09-Sep-2017	Technical
7	COMSOC COLLOQUIUM	01-Apr-2017	Technical
8	COMSOC Distinguished Lecturer Programme by Dr Ashutosh Dutta	15-Mar-2017	Technical
9	Seventh Alexander Graham Bell Lecture	06-Mar-2017	Technical
10	The Seventh Alexander Graham Bell Memorial Lecture: Reliable Wireless Access in the UHF Band by Enabling Multi-Operator Spectrum Sharing	06-Mar-2017	Technical
11	PRE VIRTUAL AND DYNAMIC WORKSHOP - SAE SNIST	09-Feb-2017	Technical
12	Republic Day Parade	25-Jan-2017	Nontechnical
13	IMAGE PROCESSING WORKSHOP	17-Jan-2017	Technical

5. Computational Intelligence Society and Geoscience and Remote Sensing Society Joint Chapter

<u>No.</u>	<u>Event Title</u>	<u>Event Date</u>	<u>Event Category</u>
1	An Expert Talk on MINING FOR MEDICAL EXPERTISE	28-Dec-2017	Technical
2	Social Evening with IEEE CIS Distinguished Lecturer Prof. Risto Miikkulainen	14-Dec-2017	Nontechnical
3	Repeat - IEEE CIS Distinguished Lecturer Program	14-Dec-2017	Technical
4	Repeat - IEEE CIS Distinguished Lecturer Program	14-Dec-2017	Technical
5	IEEE CIS Distinguished Lecturer Program	13-Dec-2017	Technical
6	One day workshop on Differential Evolution - Concepts, Implementation and Applications	29-Nov-2017	Technical
7	One day workshop on Differential Evolution - Concepts, Implementation and Applications	29-Nov-2017	Technical
8	Social Evening with IEEE GRSS DL Dr. Ramapriyan	28-Nov-2017	Nontechnical
9	IEEE GRSS Distinguished Lecturer program	28-Nov-2017	Technical
10	IEEE GRSS Distinguished Lecturer program	27-Nov-2017	Technical

11	Felicitation of Prof. Bulusu Lakshmana Deekshatulu Fellow IEEE for outstanding support to GRSS	27-Nov-2017	Nontechnical
12	Richard Moore Memorial Lectures	21-Nov-2017	Technical
13	Social evening - Discussion on promoting geoscience and remote sensing - way ahead followed by dinner	20-Nov-2017	Nontechnical
14	Renaissance in Radar Applications: Vision for Earth and Beyond	20-Nov-2017	Technical
15	IEEE CIS Hyderabad Chapter Outstanding Support awards to Prof. Sameen Fatima, Principal, UCE, osmania university	18-Nov-2017	Nontechnical
16	IEEE CIS Outstanding supporter awards to Dr. Kavitha Assistant Professor & Addl. Controller of Examinations, CSE, JNTU Hyderabad	18-Nov-2017	Nontechnical
17	John McCarthy Memorial Lecture 2017	18-Nov-2017	Technical
18	ONE DAY WORKSHOP ON GAME THEORY WITH APPLICATIONS TO SECURITY	06-Oct-2017	Technical
19	Technical Talk : Improved GA for Channel Allocation in Mobile Computing	21-Sep-2017	Technical
20	Engineers Day 2017 : Technical Talk on Social Implications of Technology	15-Sep-2017	Technical
21	A Tutorial Talk on Applications of Fuzzy Logic using MATLAB	30-Aug-2017	Technical
22	Felicitation of Prof. Kalyanmoy Deb @ IDRBT	22-Aug-2017	Nontechnical
23	Workshop on Hadoop - Basics & Advanced	28-Jul-2017	Technical
24	IEEE Technical Seminar on Convolutional Neural Networks and Deep Machine learning	26-Jul-2017	Technical
25	Workshop on Hadoop Basics	08-Apr-2017	Professional

6. Circuits and Systems Society and Electron Devices Society Joint Chapter

No.	Event Title	Event Date	Event Category
1	CAS/EDS Execom Meeting	31-Dec-2017	Administrative
2	CAS Research Forum at KLU, Guntur	16-Dec-2017	Technical
3	CASS Networking Visit: CAS Hyderabad Execom Meeting with IEEE Srilanka Execom	02-Dec-2017	Administrative
4	CASS Networking Visit: IEEE Techno Summit 2017 in Srilanka	01-Dec-2017	Technical
5	IEEE CAS/EDS Social Networking Dinner	30-Nov-2017	Nontechnical
6	Distinguished Lecturer Program - NanoMEMS, Enabling the Internet of Things	30-Nov-2017	Technical
7	CAS Membership Development workshop on "INTERNET OF THINGS"	26-Aug-2017	Professional
8	Field Visit to L&T Metro Rail-Miyapur depo.	15-Jul-2017	Technical
9	Technical Talk	06-Jul-2017	Technical
10	CAS Chapter Inauguration at AGI HYDERABAD	06-Jul-2017	Technical
11	Project Display	18-May-2017	Technical
12	Hardware modelling	18-May-2017	Technical

13	Impact of Dielectric Pocket on Different Gate Geometry MOSFET Architectures for Improved Analog and Digital Performance	12-May-2017	Technical
14	Fundamental Insights into Channel and Gate Engineered Double Gate Junction-Less Transistor for Low-Voltage Low-Power Analog and Digital Circuits	12-May-2017	Technical
15	Meeting of IEEE CAS/EDS Execom	26-Mar-2017	Administrative
16	Two-day workshop on Analog IC Design: Bridging gap between academic and industry	17-Mar-2017	Technical
17	3D Printing	18-Feb-2017	Technical
18	VIRTUAL REALITY	18-Feb-2017	Technical
19	IOS Vs Android Vs Windows Debate	18-Feb-2017	Technical
20	Paper Presentation	18-Feb-2017	Technical
21	1st Meeting of CAS/EDS Execom 2017	10-Feb-2017	Administrative
22	Career Counselling Program	06-Feb-2017	Professional
23	GyanDhan	18-Jan-2017	Professional

7. Education Society Chapter

No.	Event Title	Event Date	Event Category
1	OUTCOME BASED TECHNICAL EDUCATION TOWARDS ACHIEVING NBA/ABET ACCRIDITATION PROCESS	7 th Sep 2017 To 9 th Sep '17	Technical
2	FACULTY DEVELOPMENT PROGRAM ON EFFECTIVE TEACHING METHODS & RESEARCH PAPER WRITING	15-Jul-2017	Technical
3	GLIMPSES OF INDIAN SPACE TECHNOLOGY HALF DAY TUTORIAL	07-Apr-2017	Technical
4	PROJECT EXPO	28-Feb-2017	Technical
5	TWO DAY NATIONAL LEVEL WORKSHOP ON "CONVENTIONAL POWER SYSTEMS & POWER ELECTRONICS DESIGN AND THEIR APPLICATIONS"	27-Jan-2017	Professional
6	ONE DAY SEMINAR ON "PERSONALITY DEVELOPMENT & CARRIER GUIDANCE FOR ELECTRICAL ENGINEERS"	21-Jan-2017	Professional
7	ONE DAY SEMINAR ON "GENERATION OF ELECTRICAL ENERGY BY RENEWABLE ENERGY SOURCES"	10-Jan-2017	Technical
8	ONE DAY SEMINAR ON "PH.D LIFE & TECHNICAL COMMUNICATIONS"	10-Jan-2017	Professional

8. Microwave Theory and Techniques Society, Antennas and Propagation Society, and Electromagnetic Compatibility Society Joint Chapter

<u>No.</u>	<u>Event Title</u>	<u>Event Date</u>	<u>Event Category</u>
1	APS Chapter Chairs Meeting at iAim-2017 Bengaluru, INDIA	24-Dec-2017	Administrative
2	JC Bose Memorial Lecture on "Emerging Applications of MM-Wave Frequencies" by Prof. Shiban Koul, IIT Delhi & Fellow, IEEE; IEEE Regional Coordinator for India & Sri Lanka.	23-Dec-2017	Technical
3	Chapter Chairs Meeting at IMaRC--2017 at Hotel Hyatt Regency, Ahmedabad	12-Dec-2017	Administrative

4	IMaRC Executive Committee Meeting at IMaRC-2017, Ahmedabad	12-Dec-2017	Administrative
5	Workshop on Advanced Antennas & Applications - WAA-17	28-Nov-2017	Professional
6	Professional Talk on "Compact Antenna Test Range Systems"	18-Nov-2017	Professional
7	Technical Talk on "Electromagnetic Scattering from Arbitrary Bodies using Rao-Wilton-Glisson(RWG) Functions"	07-Nov-2017	Technical
8	Technical Lecture on "RF Radiation Safety"	10-Jun-2017	Technical
9	Talk on "Introduction to Active Missile Seeker Systems" by Yogesh K Verma, Chapter Chair, MTT/AP/EMC Jt chapter, Hyderabad at IIT Hyderabad	27-Jan-2017	Technical
10	One day Tutorial on "MIMO in Radars" by Prof. Marc Lesturgi, Director, SONDRRA France at RCI Hyderabad	10-Jan-2017	Professional

9. Power and Energy Society, Industry Applications Society, and Power Electronics Society Joint Chapter

No.	Event Title	Event Date	Event Category
1	STRATEGY PLAN TO WIN CHAPTER OUTSTANDING AWARD	27-Dec-2017	Administrative
2	2017-Faraday Memorial Lecture : "Future of Power Systems"	10-Nov-2017	Professional
3	Third PES/IAS/PELS Joint Chapter ExCom	10-Nov-2017	Administrative
4	PES Session on Rectifiers and Inverters (STB 61921) - phase 2	17-Aug-2017	Technical
5	PES Session on Rectifiers and Inverters (STB 61921) - phase 1	09-Aug-2017	Technical
6	A Hands on Workshop on "Smart Grid Automation Solar System"	04-Aug-2017	Technical
7	Half day workshop on "Applications of Synchrophasors for Power System Operation and Control"	31-Jul-2017	Professional
8	Types of energy resources	28-Jul-2017	Technical
9	Webinar on "Overview of SCADA and Smart Grid "	26-Jul-2017	Technical
10	FIELD VISIT TO L&T METRO RAIL	15-Jul-2017	Technical
11	PES & PELS INAUGARATION (STB66561)	10-Jul-2017	Professional
12	INVITED TALK ON INSTRUMENTATION: TRANSDUCERS	08-Jul-2017	Technical
13	Technical Tutorial on "SCADA and Telemetry Trends in Power and Energy sector"	30-Jun-2017	Technical
14	SOCIAL RESPONSIBILITY ACTIVITY – Career/Continuing Education Guidance to IX Class Students of Government High School – Narapally, R.R. Dist., Telangana	24-Jun-2017	Nontechnical
15	Panel Discussion on "Professional Ethics & its importance and impact"	16-Jun-2017	Nontechnical
16	Seminar on What is the importance of becoming PES Chapter Member and Inauguration of IEEE AGI PES Chapter	16-Jun-2017	Technical
17	Future Directions Meeting of IEEE PES/PELS/IAS Joint Chapter, Hyderabad Section with Industry Representatives	30-Apr-2017	Professional
18	Second Chapter ExCom Meeting of IEEE PES/IAS/PELS Joint Chapter, Hyderabad	29-Apr-2017	Administrative
19	Solar PVbased standalone grid systems for developing COUNTRIES	10-Mar-2017	Technical

20	Distinguished Lecturer Program on "Solar PV based standalone grid Systems for developing countries-Advantages of D.C"	10-Mar-2017	Professional
21	IEEE SNIST Industrial Visit to THRIVE	28-Feb-2017	Technical
22	IEEE PES MJCET ELECTRICAL DESIGN	23-Feb-2017	Technical
23	IEEE MJCET ELECTRIC HAZARDS	14-Feb-2017	Technical
24	An awareness program on ELECTRICAL HAZARDS.	14-Feb-2017	Professional
25	First Chapter ExCom Meeting of IEEE PES/IAS/PELS Joint Chapter, Hyderabad	21-Jan-2017	Administrative
26	TECHNICAL GABFEST	20-Jan-2017	Technical
27	IEEE MJCET ELECTRIEXPO	07-Jan-2017	Technical

10. Photonics Society Chapter

<u>No.</u>	<u>Event Title</u>	<u>Event Date</u>	<u>Event Category</u>
1	WORKSHOP ON PHOTONICS	07-Oct-2017	Technical
2	INVITED LECTURE	09-Jun-2017	Technical
3	INVITED LECTURE	16-Mar-2017	Professional

11. Technology and Engineering Management Society Chapter

<u>No.</u>	<u>Event Title</u>	<u>Event Date</u>	<u>Event Category</u>
1	Innovations: Latest Advances in Technology	21-Dec-2017	Technical
2	Big Data Analytics: Application in the Real World	19-Dec-2017	Technical
3	ISO / IEC / IEEE 42020 - Architecture Processes	15-Dec-2017	Technical
4	Understanding AR/VR and it's scope, Scope for Alternate Reality in our daily life	04-Aug-2017	Technical

B3. Professional and Continuing Education Activities

1. Skill Connect Programme

Hyderabad Section conducted the next edition of its Skill Connect programme for building competence and employability in engineering students with the following features and highlights.

- Builds Employable Skills in College Students
- Builds Ability to Do / Apply Learning Effectively
- Attempt to Bridge the Gap between Academia and Industry
- Focus: Competence Building & 'Learning to Learn' (rather than Knowledge alone as in traditional training)

Special Features

- Largely Bridges Gap between Industry Expectations and College learning.
- Orients thinking of students to apply and do what Industry expects, while in College.
- Substantially enhances Soft aspects.

Unique Methodology

- Uses Pattern Based Learning.
- Starts with SME Requirements to orient competence.
- Target Outcome – Internships (for part of the team)with Small and Medium Enterprises to give real time competence.

Highlights this Year – Skill Connect 2

- 22 Skill Connect Sessions - 28- L31 meetings
- Learning Management done on Open Source Tools on Cloud

- Skill Connect program of current year and the previous year – published in R10 Newsletter
- Skill Connect model and partial results of last year presented at the GHTC Conference 2015, in Seattle. Model received good review comments
- Well coordinated volunteering from Dr Nookala, Mr Maruthi of IEEE, Matrusri Engineering College along with Ms. Roopa and Mr Venkatram of M/s Sudaksha.
- Well known Organization from Industry desirous to partner in Skill Connect for their internal teams and to take it forward to engineering colleges in AP and Telangana.

12. Conferences

The Section has Technically Co-sponsored the following Conferences

- 5th National Conference on e-Learning and e-Learning Technologies (ELELTECH India 2017)
 - 3-4 August, 2017, at JNTU Hyderabad Campus
- Signal Processing and Communication Engineering Systems (SPACES 2018)
 - 4-5 January, 2018, at KL University, Guntur
- National Communications Conference (NCC 2018)
 - at IIT Hyderabad
- ICITE 2018
 - At OU Campus

13. Workshops

- One day workshop on “Emerging Trends in Intelligent Machines”
 - 2nd December, 2017
 - 89 Attendees
- One day workshop on “Data Analytics using R” on 27th October, 2017.
- Workshop on “Artificial Intelligence and Machine Learning” on 29th August, 2017.
- Workshop on “Big Data” on 3rd January, 2017
- Four day workshop on “Coding Theory” conducted as part of a celebration of 50 years of the Viterbi Algorithm, spread over 9th September to 23rd September, 2017.
- Workshop on “Image Processing” on 17th January, 2017
- One day workshop on “Differential Evolution - Concepts, Implementation and Applications” on 29th November, 2017
- One day workshop on “Game Theory with Application to Security” on 6th October, 2017.
- Workshop on “Hadoop – Basics and Advanced” on 28th July, 2017
- CASS Membership Development Workshop on “Internet of Things” on 26th August, 2017
- Two-day workshop on “Analog IC Design” on 17th and 18th of March, 2017
- Two-day National Level Workshop on “Conventional Power Systems and Power Electronics Design, and their Applications” on 27th and 28th of January, 2017
- Workshop on “Advanced Antennas and Applications” on 28th November, 2017
- A Hands-on Workshop on “Smart Grid Automation Solar System” on 4th August, 2017
- Workshop on ‘Photonics’ on 7th October, 2017

14. Distinguished Lecturer Events

- COMSOC Distinguished Lecturer Programme by Dr Ashutosh Dutta, 15th March 2017
- EDS Distinguished Lecturer Programme by Prof. Hector de los Santos on “NanoMEMs: Enabling the Internet of Things”, 2nd Dec, 2017
- IEEE Computational Intelligence Society Distinguished Lecturer Event by Risto Miikkulainen, Professor Univ. Texas., Fellow IEEE on NeuroEvolution.
- PES Distinguished Lecturer Event by Vahid Madani on ‘Future of Power Systems’

15. Involvement in IEEE Standards Development Activities

IEEE Hyderabad Section actively supported the efforts to develop the IEEE P1451 standard for IoT Harmonization. The Section is represented in this effort by PVS Maruthi Rao, Gopalakrishna Kuppa, N Venkatesh, and Arifuddin Sohel. The Section has drawn up plans to aid the establishment of an Interoperability Lab at a supporting institution – the objective of the lab would be to enable interoperability testing of devices and systems intending to conform to the P1451 standard.

B4. Students Activities

IEEE Hyderabad Section has an encouragingly large number of Student Branches, most of which are active and vibrant. In all, there are 86 student branches comprising over 3,500 student members. The complete list is reproduced below. For 2017, the Chair of the Students Activities Committee was Venkatarami Reddy and the Section Student Representative was Sai Thejeshwar.

<u>S.No</u>	<u>School Name</u>	<u>Count of Members</u>
1	GITAM University	417
2	Gokaraju Rangaraju Inst Of Eng & Tech	271
3	Keshav Memorial Institute of Technology-KMIT	135
4	Lakireddy Balireddy College Of Eng	133
5	VNR Vignana Jyothi Inst Of Eng & Tech	132
6	Sreenidhi Inst Of Science & Tech	125
7	Muffakhamjah College of Engineering & Technology	118
8	Mvgr College Of Engineering	114
9	G Pulla Reddy Engrg College	99
10	Vaagdevi College Of Eng - Warangal	97
11	S R Engineering College - Warangal	80
12	Dadi Inst of Eng and Tech	70
13	Velagapudi Ramakrishna Siddhartha Eng Coll	64
14	Chaitanya Bharathi Inst Of Tech-Osmania Univ	63
15	Vignana Bharathi Inst Of Tech	63
16	Guru Nanak Inst of Technology-Ibrahimpattam	57
17	Vignan Institute of Technology & Science	57
18	Jayamukhi Inst Of Technological Sciences	56
19	National Institute of Technology-Warangal	56
20	Koneru Lakshmaiah College Of Engineering	54
21	Geethanjali College of Engineering & Technology	53
22	Vaagdevi Engineering College	50
23	Univ College of Eng - Osmania Univ-HYDERABAD	49
24	CMR College of Engineering & Technology	48
25	J B Inst Of Engineering & Tech	44
26	Jawaharlal Nehru Tech Univ-Hyderabad	42
27	International Institute of Info Tech - Hyderabad	40
28	Anurag Group of Institutions	39

29	Matrusri Engineering College	39
30	Tirumala Engineering College	38
31	Jawaharlal Nehru Technological Univ-Anantapur	37
32	Indian Institute of Technology-Hyderabad	36
33	Rajeev Gandhi Memorial College of Eng & Tech	35
34	Hyderabad Institute of Technology & Management	34
35	Govt College Of Engrg-Ananthapur/Jntu Univ	32
36	BVRIT Hyderabad	26
37	KKR & KSR Institute of Tech & Sciences	26
38	PSCMR College of Engineering and Technology	26
39	Sree Vidyanikethan Engineering College-TIRUPATI	24
40	Birla Inst of Tech & Sci Pilani - Hyderabad	23
41	CVR College Of Engineering	22
42	Aditya College of Engineering	21
43	MVSR Engineering College	21
44	Sphoorthy Engineering College	21
45	Marri Laxman Reddy Inst of Tech and Man	20
46	Gayatri Vidya Parishad College Of Engrg	19
47	TKR College of Engineering and Tech	19
48	Chirala Engineering College	18
49	Sasi Institute of Technology & Engineering	18
50	Srinivasa Ramanujam Institute of Technology	18
51	Raghu Institute of Technology	17
52	Vaageswari College of Engineering	17
53	Jawaharlal Nehru Technical Univ - Andhra Pradesh	16
54	Nalla Malla Reddy Engineering College	16
55	St. Ann's College of Engineering & Tech-Chirala	16
56	Andhra Univ College Of Engineering	14
57	CMR Engineering College	13
58	Dhanekula Institute of Engineering and Technology	13
59	Jawaharlal Nehru Technological Univ-Kakinada	13
60	Mahindra Ecole Centrale	13
61	Narsimha Reddy Engineering College	13
62	Auroras Scientific Technological & Research Acad	12
63	Swarnandhra College Of Engineering & Technology	12
64	Santhiram Engineering College	11
65	Malla Reddy Eng College	10
66	MLR Institute of Technology	9

67	Vardhaman College of Engrg-Shamshabad	9
68	Vignan's Institute Of Information Technology	9
69	G Narayanamma Inst Of Tech & Sci (Women)	8
70	Hyderabad Univ Of - School Of Maths & Comp Sci	8
71	Acharya Nagarjuna University	6
72	Vignan University - GUNTUR	6
73	Kakatiya Institute of Technology & Science	5
74	Methodist College of Engineering & Technology	5
75	Padmasri Dr B V Raju Inst Of Tech	5
76	RVR & JCOP College Of Engrg	5
77	Sri Jayachamarajendra College Of Engrg	5
78	Vignan's Foundation for Sci, Tech & Research	4
79	Bapatla College Of Engrg/Nagarjuna Univ	3
80	Guru Nanak Engineering College	3
81	Konneru L College Of Engrg-Guntur/Nagarjuna U	3
82	Mahatma Gandhi Inst Of Tech	3
83	Malla Reddy Engineering College for Women	3
84	Rayalaseema University	3
85	Sri Venkateswara Univ College Of Engineering	3
86	Vasavi College Of Engineering	3

Student Branches also conducted a large number of events in 2017, some of which are listed below. Overall, there were over **60** events with a total of over **6,000** attendees.

The Section Student Congress was conducted by the Section but is included in the list for its close affiliation with various Student Branches.

<u>No.</u>	<u>Event Title</u>	<u>Event Date</u>	<u>Event Category</u>
1	SECTION STUDENT CONGRESS'17	04-Nov-2017	Technical
2	Webex meeting on planning for SSC 2017	14-Oct-2017	Administrative
3	Industrial Visit to NRSC	07-Oct-2017	Technical
4	Membership Development Expo	31-Jul-2017	Nontechnical
5	BE THAT BEING	29-Jul-2017	Nontechnical
6	EXCOM MEETING-1 (IEEE SNIST STB 61921)	26-Jul-2017	Administrative
7	One-Day workshop on Life and Entrepreneur Skills Development	20-Jul-2017	Nontechnical
8	IEEE BASICS 2017 STB64621	24-Jun-2017	Administrative
9	Felicitation and Declaration	21-Apr-2017	Administrative
10	SB ADMINISTRATION WORKSHOP PART-2	13-Apr-2017	Administrative
11	SB ADMINISTRATION WORKSHOP Part-1	11-Apr-2017	Administrative
12	IEEE GRIET SB STRATON FIELD TRIP 2017	06-Apr-2017	Technical
13	IEEE GRIET SB April 5th, 2017 Meeting"	05-Apr-2017	Administrative

14	IEEE GRIET SB WIE STAR 2017	01-Apr-2017	Nontechnical
15	Hackathon - IEEE MVSR SB [STB-12161]	31-Mar-2017	Technical
16	Paper Presentation-IEEE MVSR(STB Code-12161)	31-Mar-2017	Technical
17	IEEE SNIST SB Board Elections	30-Mar-2017	Administrative
18	IEEE GRIET SB "March 28th, 2017 Meeting"	28-Mar-2017	Administrative
19	Industrial visit to SHAR Sriharikota-IEEE CBIT (STB31231)	27-Mar-2017	Technical
20	Industrial visit to SHAR Sriharikota	27-Mar-2017	Technical
21	AVISHKAR 2K17 INTER ROUND	25-Mar-2017	Technical
22	VLSI Design Using FinFET	25-Mar-2017	Technical
23	IEEE GRIET SB WEB CLUSTERS-I 2017	23-Mar-2017	Technical
24	Introduction to Basic Electronics	23-Mar-2017	Technical
25	Carpediem fest -IEEE CBIT(STB31231)	23-Mar-2017	Technical
26	IEEE GRIET SB "March 22nd, 2017 Meeting"	22-Mar-2017	Administrative
27	CEO Talk @IEEE SNIST	16-Mar-2017	Professional
28	IEEE GRIET SB Hackathon'17	06-Mar-2017	Technical
29	NIAR Visit2 -IEEE CBIT (STB31231)	04-Mar-2017	Technical
30	NIAR Visit2 -IEEE CBIT (STB31231)	04-Mar-2017	Technical
31	IEEE GRIET SB "March 3rd, 2017 Meeting"	03-Mar-2017	Administrative
32	IEEE AITS Rajampet (STB10191)Technical talk on "On board detection systems" and "Smart city"	02-Mar-2017	Technical
33	IEEE - VBIT SB MEMBERSHIP DRIVE	28-Feb-2017	Professional
34	Technovanza GBM -IEEE MVSR SB(STB Code-12161)	27-Feb-2017	Administrative
35	Nuclear Energy and Its Safety	27-Feb-2017	Technical
36	Nuclear Energy and Its Safety	27-Feb-2017	Technical
37	TechColiseum	22-Feb-2017	Technical
38	IEEE BVRIT SB(STB63341) Industrial visit to kothagudem thermal power station	19-Feb-2017	Technical
39	IEEE STB17791 Industrial Visit to Indian Deep Space Network, ISRO	17-Feb-2017	Technical
40	Matlab Workshop- IEEE MVSR SB(STB Code:12161)	16-Feb-2017	Technical
41	Gaming	10-Feb-2017	Nontechnical
42	Techie Quiz	10-Feb-2017	Technical
43	PES inauguration- IEEE CBIT (STB31231)	08-Feb-2017	Administrative
44	Touch and Augmented Reality Workshop - IEEE MVSR SB [STB-12161]	03-Feb-2017	Technical
45	IEEE GRIET SB STUDENT BODY MEETING 2017	31-Jan-2017	Technical
46	JOHN BARDEEN MEMORIAL	30-Jan-2017	Administrative
47	Game automation and Image Processing seminar	28-Jan-2017	Technical
48	Game automation and Image Processing seminar -IEEE CBIT (STB31231)	28-Jan-2017	Technical

49	Helping Hands - IEEE MVSR SB [STB-12161]	26-Jan-2017	Nontechnical
50	IEEE GRIET SB "JANUARY 25TH, 2017 Meeting"	25-Jan-2017	Administrative
51	AVISHKAR 2K17 - INTRA ROUND	25-Jan-2017	Technical
52	WORKSHOP ON CYBER SECURITY AND ETHICAL HACKING	20-Jan-2017	Technical
53	IEEE GRIET SB "January 19th, 2017 Meeting"	19-Jan-2017	Administrative
54	Gyandhan talk	18-Jan-2017	Nontechnical
55	Gyandhan talk CBIT stb31231	18-Jan-2017	Nontechnical
56	IEEE & PES membership drive-IEEE CBIT (STB31231)	08-Jan-2017	Administrative
57	IEEE STB 10013 - Emerging Trends in IoT And Demo On Blumix Clouf Foundry	03-Jan-2017	Technical

B5. Affinity Group Activities

1. Women in Engineering

No.	Event Title	Event Date	Event Category
1	WIE Congress, Warangal Zone	18-Aug-2017	Professional
2	STAR KID	02-Aug-2017	Technical
3	Career Awareness Program	01-Aug-2017	Technical
4	IEEE WIE CONFERENCIA	14-Jul-2017	Nontechnical
5	STAR EVENT (STB66561)	29-Apr-2017	Nontechnical
6	Warangal Zone All IEEE WIE AG meet	01-Apr-2017	Administrative
7	IEEE SNIST WIE Debate Event	31-Mar-2017	Nontechnical
8	one day workshop on WyzBee " IOT applications" (SBA 15721)	24-Mar-2017	Technical
9	Women's Day Celebration Theme: Women in the Changing World of Work	10-Mar-2017	Nontechnical
10	Women's Day Celebrations 2017 at SNIST	08-Mar-2017	Nontechnical
11	Workshop on Ruby's on Rails - women's Day	08-Mar-2017	Technical
12	International Women's Day (SBA 15721)	07-Mar-2017	Nontechnical
13	Best Girl Student Award (SBA 15721)	06-Mar-2017	Technical
14	STAR Program on Awareness on education and Computer Basics (SBA 15721)	04-Mar-2017	Nontechnical
15	IQ , EQ & SQ TEST (SBA 15721)	03-Mar-2017	Nontechnical
16	DECISION MAKING AND MARKETING SKILLS (SBA 15721)	02-Mar-2017	Nontechnical
17	ESSAY WRITING (SBA 15721)	01-Mar-2017	Nontechnical
18	WIE Orate It	22-Feb-2017	Nontechnical
19	INSIGHT OF TECHNOLOGY FOR YOUNGSTERS	06-Feb-2017	Technical
20	EDUCATE A GIRL CHILD	22-Jan-2017	Nontechnical
21	sports (SBA 15721)	07-Jan-2017	Nontechnical

2. Young Professionals

No.	Event Title	Event Date	Event Category
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1	Industrial Visit to BHEL (STB66561)	29-Jul-2017	Technical
2	Excom meeting (STB66561)	12-Jun-2017	Administrative
3	1 WEEK PROGRAM ON PYTHON LANGUAGE (STB66561)	22-May-2017	Technical
4	Technical Talk on Sparse Representation and its Applications	12-Mar-2017	Technical
5	JAYAMUKHI IEEE SB ANNUAL GENERAL ELECTIONS STB64621	09-Mar-2017	Administrative
6	IGNUS 2017 (STB66561)	28-Feb-2017	Professional
7	Excom meeting1 (STB66561)	24-Feb-2017	Administrative
8	ISRO LIVE LAUNCH STB64621	15-Feb-2017	Technical
9	Tree Plantation (STB66561)	26-Jan-2017	Nontechnical
10	Membership Drive STB64621	24-Jan-2017	Nontechnical

B6. Awards and Recognitions Activities

Section Members received several significant awards. These include:

1. 2017 IEEE R10 Outstanding Volunteer Award - Koduri Srinivas
2. 2017 IEEE R10 Outstanding Student Volunteer Award – Shaik Suraiah Thaseen
3. 2018 CIS Outstanding Chapter Award – CIS Chapter
4. Darren Chong Award - MVSR Student Branch
5. IEEE Computer Society Richard E Merwin Scholarship Award – Sai Thejeshwar

The Section has also instituted awards for the recognition and motivation of its volunteers. The following awards were granted in 2017:

1. Outstanding Volunteer Award – NV Rao
2. Distinguished Volunteer Service Award – Rajagopalan Kannan
3. Significant Volunteer Service Award – Md. Arifuddin Soheli
4. Special Award for "Outstanding Support to Section Activities" - IEEE Student Branch of International Institute of Information Technology (IIIT), Hyderabad
5. Upcoming Student Branch Award - IEEE Student Branch of MVSR Engineering College, Hyderabad
6. Upcoming Student Branch Award - IEEE Student Branch of Chaitanya Bharathi Institute of Technology (CBIT), Hyderabad
7. Vibrant Student Branch Award - IEEE Student Branch of G Pulla Reddy Engineering College (GPREC), Kurnool
8. Vibrant Student Branch Award - IEEE Student Branch of Vignan Institute of Technology and Science, Hyderabad
9. Vibrant Student Branch Award - IEEE Student Branch of Sreenidhi Institute of Science and Technology, Hyderabad

B7. Communication Activities

IEEE Hyderabad Section revived its web presence substantially in 2017 and continue to sustain that in coming years too. It established a process of collaborative creation of web content using Git processes, daily builds etc. Training sessions are being planned to volunteers for managing the website.

Section Website: <https://ieeehyd.org>

IEEE Hyderabad Section also revived its social media presence on Twitter (@ieeehyderabad) and on Facebook (Group: ieeehyd) and posting the content. IEEE Hyderabad Twitter account has 500+ followers, Facebook group has 5000+ members. IEEE Hyderabad Section will continue to leverage the presence on Social Media.

Twitter: @ieeehyderabad

Facebook Group: ieeehyd

IEEE Hyderabad Section releases a quarterly newsletters and they are available in the Section website News Room: <https://ieeehyderabad.org/news-room/details/>

Members can view the Section Newsletters from 2015 to 2017.

B8. Industry Relations

IEEE Hyderabad Section has formed Industrial relations Committee (IRC) in 2016 to bring synergy between Industry, academia, startups, Government and practicing professionals by bringing them together on to a common platform. IRC conducted Technical talks, workshops with the help of IEEE Chapters.

1. A one-day workshop on “Emerging Trends in Intelligent Machines” on 2nd December, 2017, with over 80 attendees.
2. In collaboration with TEMS, a Technical Talk titled “Understanding AR/VR and its scope, Scope for Alternate Reality in our daily life” by Mr. Jignesh Talasila, Loop Reality, Hyderabad on 4th August, 2017, with over 220 attendees.
3. In collaboration with Computer Society Chapter, a technical talk on “Quantum Information and Computation” on 20th August, 2017.

B9. Humanitarian Technology Activities

The 12th April, 2017 issue of IEEE Society Sentinel covered the SIGHT activities of Hyderabad Section under the leadership of Satish Chaparla. This is what the Sentinel had to say:

Reducing Electrocutation Fatalities: IAS SIGHT

Satish Chaparala; IEEE Senior Life Member from Hyderabad, India; was alarmed to learn that there are approximately 22 overhead powerline related fatalities in India every day. Three years ago, knowing that IEEE Members had the knowledge and skills to reduce these incidents, Satish decided to develop an overhead powerline safety awareness program for the rural agricultural area near Hyderabad, India.

“Total electrocutions have increased at a very high rate where approximately 10,000 people are being electrocuted annually in India alone. Our major goal is to promote electric overhead powerline safety awareness in an effort to reduce the number of fatal accidents,” says John Nelson, IEEE Life Fellow.

With financial support through the IEEE Industry Applications Society (IAS), Hyderabad IEEE Section, and IEEE Special Interest Group on Humanitarian Technology (SIGHT) committee, an Overhead Power Line Safety Awareness Program was initiated.

B10. Community Activities

The Section is involved in several community activities in association with Chapters and Subsections. The following are some of these activities:

1. 21st October, 2017: Imparting interest in engineering skills among Rural Girl Students (Venue: Government Junior College, Araku) R-10 Sponsored. Speakers: Dr. Abraham Varughese, Dr. N.Deepika Rani, and Dr. S. Lakshminarayana.
2. 28th October, 2017: Imparting interest in Engineering skills among Rural Girl Students Venue: Z.P.H. School Dhimili R-10 Sponsored Speakers: Dr. Abraham Varughese, Dr. N. Deepika Rani, Dr. P. Satheesh and Dr. S. Lakshminarayana.
3. 14th November, 2017: Awareness Programme on Technological Forums for Humanity and Societal Needs. Venue: Narayana Engineering College, Nellore
4. The IEEE WIE Congress for Warangal zone was conducted with the theme of “Women in Health and Education - Technological Empowerment.” On 18th and 19th August, 2017 at Assuntha Bhavan Banquet Hall, Subedari, Hanamkonda.

Part C: Others

C1. Special Events

1. Special SEC Meeting for Section, Subsection, and Chapter Officer Orientation on 19th March, 2017

The IEEE Hyderabad Section conducted a full slate meeting in which all the office bearers of all chapters, affinity groups and sub sections were invited. The meeting was held on 19th March, 2017 at Hotel Abode, Hyderabad. Lakshminarayana Merugu, Section Chair, started the meeting by highlighting the purpose for a full slate meeting. He briefed the audience about current membership statistics and discussed about the reporting requirement of section, chapters, AG and Subsections. He elaborated on the best practices of an outstanding large section and encouraged the office bearers to put their best volunteering efforts in this year. From the future directions committee (FDC), Satish presented the demographics of the survey conducted in the month of February 2017 towards finding the expectation of the section members. It was evident from the survey results that the three main reasons for people to take up IEEE membership

are knowledge sharing, networking, and career development. The FDC would deliberate on these matters and prepare the vision statement, mission statement and goals of Hyderabad section in line with the expectations of its members. Atul Negi presented on the topic of transformation of member to volunteer in which he highlighted the needs and expectations of a volunteer. He also stressed on the need of volunteer training and providing a comfortable working environment for the volunteer and finally the appreciation and due recognition that a volunteer should receive after completion of the voluntary effort. This will help in building a good ecosystem wherein members would look forward for long term productive volunteering.

N. Venkatesh, secretary discussed on the method of planning events by an IEEE entity. He discussed about choosing the topic, speaker, event publicity through vtools & ENotice, aptness of venue, logistics and speaker felicitation. He also clearly classified the activities that are to be taken up during the event and after the event like report submission, L31 reporting and settlement of accounts.

Maruthi Rao, Vice chair elaborated on the chapter, AG and Committee operations. He stressed on the importance of knowing the chapter members by using SAMIEEE and the various methods in which one can reach out to chapter members in specific and also to all section members in general. He highlighted on the important “do’s and don’t’s” for conduct of the event. He proposed that an email group/whatsapp group comprising of secretaries of all chapters should be started to facilitate efficient communication between members.

Sreenivas Jasti, Treasurer presented the details of Rebate that the section is entitled to based on membership status and activity bonuses. He released an accounting template planning the events and the events are to be presented to the SEC for prior approval in this template only. He briefly discussed about financial reporting via netsuite and the challenges before the section in the accounting aspect.

An important issue regularly faced by the section is the conduct of conferences by colleges and request for technical co-sponsorship for these conferences. Satish from the conference committee discussed the format for application for co-sponsorship by IEEE Hyderabad Section and the common issues the conference committee is facing in according permission for these conferences.

Madhav Negi, Membership Development chair discussed about the MEE framework which is all about designing programs that would benefit all segments of memberships like student, GSM, Professional, YP and WIE in a method that deeply engages the members and provided them with a good experience so that they enjoy being an IEEE member and continue their membership.

Abhay Joshi, Section student representative presented on the expectations of the students from the section. He also highlighted on the type of activities that would lead to satisfaction of student members and enjoy volunteering for IEEE.

Vinit, Chair, Young Professionals, elaborated about the constraints of young professionals and the challenges faced by them in volunteering for IEEE. He discussed about the importance of mentoring young professionals who are the future IEEE leaders. He also shared a few recent success stories of the YP affinity group in the form of conduct of AICSC and Technology Entrepreneurship Summit.

Finally, S. Lakshminaryana spoke on the activities conducted by Vizag Bay Subsection and proposed plan of events for the year 2017. A total of 45 members attended this meeting and it was very beneficial for all the participants. All the presentations in this day-long meeting are an important volunteer resource and they will be available on the section website and can also be downloaded from <https://drive.google.com/open?id=0B5iq4Kpt29r8cEN6amRvcOd3WE0>

2. Meeting with Kukjin Chun, Director, IEEE Region 10 on 18th July, 2017

The IEEE Hyderabad Section organised a special execom meeting to welcome Dr. Kukjin Chun, Director, R10 to Hyderabad on Tuesday, 18 July from 6.30 PM to 9.30 PM in Hotel Plaza at Begumpet. In spite of the bad weather, a large number of section ExeCom members including some past chairs of the section were present. The meeting started with Dr. M. Lakshminaryana welcoming the Dr. Chun and all SEC members with a brief presentation on history and current activities of Hyderabad section.

Dr. Chun appreciated the active role of Hyderabad section at the R10 level and mentioned that R10 is spread over 22 countries with 57 sections and 26 subsections. He communicated that in a recent decision of R10 each subsection should demonstrate a three-fold increase in membership and activities. He also expressed his concern that memberships in India are decreasing and that out of 1400 student branches only very few are active and as many as 400 have zero members.

An important point reiterated by Dr. Kukjin was that IEEE started with members from the Industry but in Asia Pacific region it is academically oriented. In its efforts to have improved industry participation IEEE is planning to have a new membership level between SMIEEE and FIEEE which would be that of an Industry member.

He also discussed about the MGA – STA initiative and encouraged the section to host more conferences to cater to local members without compromising on the quality. Dr. Kujin mentioned about two new initiatives of Future Directions

committee at the IEEE headquarter level which is the Ethically Aligned Design (EAD) and Global Public Policy Initiative(GPPI). He appreciated the efforts of Dr. V. Prasad Kodali in preparing a book on the 50 years of history of Region 10 which is to be released during Sections Congress 2017 to be held at Sydney Australia from 11-13 August 2017. The meeting ended with a networking dinner hosted by Hyderabad Section in honour of the R10 Director.

C2. Relationship with Other Societies and NGOs

The Section has a long standing association with other professional societies such as Institution of Engineers, Institute of Electronics and Telecommunications Engineers, and Computer Society of India. The Events included:

1. 33rd National Convention of Electronics and Telecommunications Engineers held on 29th November, 2017, with Institution of Engineers, Telangana State Chapter.
2. "Comprehensive Perspective of Digital Ecosystem" by Computer Society Chapter in collaboration with Computer Society of India, on 16th December, 2017.
3. "Software Reliability Assessment and Its Usefulness" by Computer Society Chapter in collaboration with Computer Society of India, on 12th November, 2017
4. "Agile in Today's World" " by Computer Society Chapter in collaboration with Computer Society of India, on 16th July, 2017.

C3. Collaboration with other IEEE Sections

In an effort to bid for one of IEEE's flagship conferences Globecom 2020, the Comsoc/SPS Joint Chapter of Hyderabad Section collaborated with Comsoc chapter of Bangalore Section and Pune Section. We put in a strong bid but lost to Taipei. This experience, however, has strengthened the interaction between the Sections and may lead to more successful collaboration in the future.

CAS Society Chapter organized a membership development event along with IEEE Sri Lanka Section on 2nd December, 2017

CAS Society Chapter conducted a three-day IEEE International Membership Development Workshop on IoTat Bandung, Indonesia from 10th October, 2017.

C4. Support Extended to Subsections and Chapters within the Section

The Section has directly supported the various flagship events of the Society Chapters within the section. These included:

1. The Seventh Alexander Graham Bell Memorial Lecture: "Reliable Wireless Access in the UHF Band by Enabling Multi-Operator Spectrum Sharing" delivered by Prof. K Giridhar on 6th March, 2017 and organized by Comsoc/SPS Joint Chapter.
2. 2017-Faraday Memorial Lecture : "Future of Power Systems" by Dr. Vahid Madhani on 10th November, 2017 organized by PES/IAS/PELS Joint Chapter
3. John McCarthy Memorial Lecture 2017 on "Artificial Intelligence" by Prof. Raghu Krishnapuram, Fellow, IEEE; on 18th November, 2017 organized by the CIS/GRSS Joint Chapter.
4. 7th Sir J.C. Bose Memorial Lecture on "Emerging Applications of Millimeter Wave Frequencies" by Dr. S. K. Koul, Fellow IEEE on 23rd December, 2017 organized by MTT/AP/EMC Societies Joint Chapter
5. WIE Zonal Congress in Warangal, on 1st April, 2017.
6. Section Student Congress on November 4th and 5th, 2017 at Hyderabad.
7. Research Forum on 16th December, 2017 co-organized by Guntur Subsection and CAS/ED Societies Joint Chapter.

C5. Best Practices

Hyderabad Section has been continuously involved in introspecting on its own practices and guidelines and taken advantage of its very large volunteer base in evolving its practices. Some of the key practices instituted by the Section are:

- Constitution of a Future Directions Committee to look into the Section Vision, Mission, Goals, Objectives and methodologies to achieve them – further details are in Part D below.
- Active involvement of Chapter Chairs and Subsection executives in Section deliberations – the monthly SEC meetings see large attendance. In addition, the SEC meetings are open for online participation via webex. This way, Subsections and Chapter representatives who are unable to travel to the venue, or wish to be spared of the additional time and effort that takes, have been able to attend the meetings via two-way video and audio streams.

- Active participation of industry volunteers – almost all chapters have active volunteers in their execom from the industry.
- Encouragement to Chapters to institute an annual Flagship event
- Inclusion of a brief IEEE pitch and membership development effort in each Chapter event
- Effort to increase Society membership by providing preferential pricing, and in cases exclusive participation, to Society members in Chapter workshops
- Annual face-to-face event involving all Section, Subsection, and Chapter committee members to reinforce processes, impart basic training on the use of vtools, and alignment to Section Vision and Mission

C6. Problems and Suggestions

- A problem the Section is facing is on a sizeable number of Student Branches that are dormant. To remedy this – either closure of the SB or its revival – additional volunteers have been placed in the Students Activities Committee with separate representatives from different geographical areas within the Section in order to better reach out to the SBs.
- A common problem is the non-continuance of student members as regular members following their graduation. It is seen that the Value Proposition of IEEE membership is different for students Vs corporate employees. A remedy identified is to focus on industry participants in Section and Chapter events and provide for the needs of fresh entrants into the industry.
- In the area of Conferences technically co-sponsored by the Section, there are a number of challenges faced, including that of maintaining the IEEE brand, quality and originality of the material, and obtaining sufficient sponsorship and attendance. The Section has instituted a Conference Committee to oversee acceptance of technical cosponsorship of conferences, and has laid out guidelines for the proper running of the conference including recommendations of the constitution of the Technical Programme Committee with participation of Section and Chapter volunteers.

Part D: Goals and Plans

IEEE Hyderabad Section instituted a Future Directions Committee (FDC) under the leadership of C Satish to examine, introspect, and put forth the Section's Vision, Mission, Goals and Objectives that would guide all activities of the Section in the years to come. The FDC collected feedback from all members on their expectations from IEEE and their other views. A summary of the FDC report and the guidelines issued is reproduced below.

A Time to Shape Our Future

C. Satish, Chairman – FDC Committee 24 Jan 2018

It is necessary for any non-profit organisation to take a look once in a decade or so to see what changes are needed in its strategy to fulfill its vision and mission. IEEE calls it strategic planning. For such a strategic planning, IEEE Hyderabad Section Executive Committee formed a Future Directions Committee (FDC) on 16 October 2016. This committee consists of about 15 members & includes 5 Past Section Chairs, few younger members and few current SEC members. Mrs. Supriya of TCS is the committee's facilitator.

FDC's Terms of Reference are

1. Prepare a Vision and Mission Statement.
2. Identify the Section's Goals and priorities.
3. Suggest a strategy for realizing the above.

The committee found that the Section had no formal Mission and Vision statements. So it recommended after 3 lengthy discussions the following Mission and Vision Statements on 9 April 2017

MISSION:

TO PROVIDE A PLATFORM FOR KNOWLEDGE SHARING, NETWORKING, AND CAREER DEVELOPMENT TO THE LOCAL TECHNICAL COMMUNITY.

VISION:

TO BE AN ESSENTIAL RESOURCE FOR THE PROFESSIONAL DEVELOPMENT IN SPECIFIC FIELDS OF INTEREST OF IEEE FOR THE BENEFIT OF MANKIND.

In simple words Mission is the purpose. Vision is a picture of desired future. Goals, strategy and plans should emanate from the above and need to be in alignment with mission and vision by all the constituents of the Section like Chapters, AGs. Mission is the guiding star for all our plans and activities.

The FDC asked the inputs from members who are the Section's primary customers. For this an online survey of

members on IEEE membership and Section activities was conducted in February 2017. Nearly 100 responses were received. The survey showed that

- Most members are “interested to increase their knowledge and skills, workshops, seminars, continuing education programs, networking, career development”.
- They want ‘more access to publications, more and new volunteers’. Many are interested to volunteer and want to know about volunteering.
- Overall the members are satisfied and seek more of the things mentioned above.

Next the FDC again after a long discussion selected the goals and measures to achieve the mission of knowledge sharing, networking, career development. The suggested goals and steps are :

Goal 1: To Develop and Promote Industry Engagement

To promote industry engagement

Measures -

1. Driven through society, take feedback as to desired events, along with industry conduct events in proximity
2. IEEE section should be one of the professional bodies that Govt. seeks advise from, and be invited to be part of any Govt. initiatives e.g. Photonics Valley corporation.
3. Promote continuous education (certifications).
4. Change the branding to show that it is for industry only.
5. Promotion of awareness of relevant IEEE Standards to the industry (driven by the Chapters).
6. Promote to management of the companies to support IEEE involvement.
7. Collaboration with local bodies for training based on IEEE content and standards.
8. Let there be an IEEE Roadshow which goes to various industries– focused on IEEE, multiple components of various societies

Increase success rate of entrepreneurship

Measure –

- Promoter technological mentoring to entrepreneurs
- IRC will focus on TES with the help of the Chapters
- <ref Bangalore section>
- Collaborate with technology makers to provide the inputs on how to use their technology for business solutions.

Goal 2: To increase the effective volunteer base.

Measure: Pool of 50 active volunteers at any given time

1. Make volunteering easier – use technology procedures,
2. Ask for volunteers- surveys
3. Proactively Send IEEE volunteer material to each member (people have not used available material) – training, also send to HR and other similar bodies in an org
4. Setup a volunteer identification committee.
5. Put in place Mechanism of Recognition of professionals from engg. community
6. Increase volunteers from industry members
7. Recognition of volunteers – by local body, in a social with FAMILY members
8. Each volunteer to find an understudy (succession planning)
9. Reduce volunteer inability to volunteer.
10. Operations manual -- Have induction, give clarity on volunteer role
11. Volunteer empowerment – feeling that they are making a difference, hearing them.
12. Retain existing volunteers– should not feel discouraged.
13. Increase presence on social media.–recognition on Hyd site/page. People should see.
14. Classify Volunteers → generic volunteers, vs. for specific events-
15. Clarify work expectations & duration – certification is guaranteed, award→ performance
16. Match interest and motive for volunteer

17. Convenience and potential of volunteers
18. An event for volunteers where we describe volunteers
19. Grow volunteers by regular call for volunteers, evaluate performance,
20. Handover of work from prev. set of volunteers to new set.
21. Easy and friendly administrative procedures.

Goal 3: To increase technical Society membership

Measure: X% Increase society membership in 2 years

1. Offer local incentives- discounts for local events. Early bird discounts
2. Reach out membership development from industry- absence of industry
3. Target IEEE members who are not society members through awareness– they do not know benefits of society.
4. Ask what they want – by society, Identify topics broad topics that the professionals are interested and conduct programs in that – through survey etc.
5. Increased access to digital libraries specific to society
6. Facilitate change in organizational culture in the organizations through petitions to regulatory bodies. E.g. DRDO – 25K provided for professional, so this is used in appraisals.
7. Popularize benefit of the society– beyond the society only, communications not reached out to the entire IEEE community. 1000 prof. members out of 5000 members. So the 4000 members do not get any society information.
8. Chapter must organize one good conference of that society once in two years.
9. Promote society and events through social media.
10. Demo society membership at a physical location – IEEE Café
11. Recognition from local society chapter – volunteer or member.
12. Chapter Promotes society activities in the Student branch.

Goal 4: To Sustain membership of students even after their transitioning to full members

Measure: current 25% retention... Target- 50% retention

1. Evangelize importance of being full member
2. More Student Transition & Elevation Program (STEP) events with measurable outcomes.
3. Promote membership afresh, not talk of “transition”. See benefits as any other professional membership. Focus only on increasing professional membership. As part of ongoing efforts to increase membership.
4. More contests like all India Student Project Contest– which is more like an Academia-Industry interaction.
5. Mentor network – needs to be publicized and strengthened
6. Challenge
7. of jump in member fees from ~\$27 to ~\$80.
8. Used only for CV purposes.
9. Evangelize IEEE membership among the industry
10. Better give up.
11. Faculty advisors and mentors have to be educated to promote

Focus on GSM (masters, or PhD students)

Concluding Remarks-

- The recommendations of Future Directions Committee are given to the Section Executive Committee on 21 Jan 2018. The SEC will communicate them to 1. Section members and 2. Chapters, AGs and Subsections and start a dialogue with them through various channels like newsletter, web site and direct mail. The objective is to develop detailed measures, procedures, priorities to set up to reach the goals. The SEC will assign responsibilities for implementation. The main criterion for approving and continuing all proposals will hereafter be whether they satisfy the Sections mission. The SEC will monitor performance and results. Mission and vision statements are long term, but goals and measures can be modified and given up (where they don't work) even in the short term.

