

# **IEEE Kerala Section Report**

## **January 2013 – December 2013**

### **PART A - SECTION SUMMARY**

#### **A.1 Executive Summary – (Please follow the format given below)**

- Section Executive Committee Member List

<b>SI No</b>	<b>Role</b>	<b>Name</b>	<b>Member No.</b>
1	Chair	<b>Mr. Srinivasan R</b>	90511907
2	Vice Chair	<b>Mr. Unni Sankar</b>	41481981
3	Secretary	<b>Mr. Sabarinath Pillai</b>	90514319
4	Treasurer	<b>Dr. S.M. Sameer</b>	80401549
5	Immediate Past Chair	<b>Mr. Sathees Babu</b>	41569372
6	Immediate Past Secretary	<b>Mr. K.B. Senthilkumar</b>	90361123
7	Chair, Malabar Subsection	<b>Dr. Abraham T Mathew</b>	80534753
8	Secretary, Malabar subsection	<b>Mr. Nandakumar R Nandanam</b>	90354121
9	Chair, Kochi Subsection	<b>Dr. Suresh Nair</b>	3757648
10	Secretary, Kochi Subsection	<b>Mr. Shahim Baker</b>	85003272
11	Chair, CS chapter	<b>Mr.Varghese Cherian</b>	1351329
12	Vice Chair, CS chapter	<b>Mr. Simon Akkara</b>	90748370
13	Secretary, CS Chapter	<b>Mr. Aneeshkumar K B</b>	90540113
14	Chair, IE, IA & PEL Chapter	<b>Dr. Vincent G</b>	80621821
15	Chair, Comsoc Chapter	<b>Dr. B. S. Manoj</b>	41350116
16	Vice Chair, Comsoc Chapte	<b>Dr. Maneesha V. Ramesh</b>	90776739
17	Secretary, Comsoc Chapter	<b>Mr. Prem Krishnan</b>	92163123
18	Chair, PES Chapter	<b>Prof. Muhammed Kasim S</b>	90507629
19	Vice Chair, PES Chapter	<b>Dr. Bijuna Kunju</b>	90493472
20	Secretary, PES Chapter	<b>Mr. Syamkumar G</b>	80607242
21	Chair, GOLD Affinity Group	<b>Mr. Ranjit R Nair</b>	90336307
22	Vice Chair, GOLD Affinity Group	<b>Mr. Nitin Padmanabhan</b>	80144184
23	Secretary GOLD Affinity Group	<b>Mr. Ajin Baby</b>	90307785

24	Treasurer, GOLD Affinity Group	<b>Mr. Bibin Parukoor Thomas</b>	90542103
25	Chair, WIE Affinity Group	<b>Ms. Sarada Jayakrishnan</b>	90746441
26	Vice Chair, WIE Affinity Group	<b>Ms. Mini Ulanat</b>	80492168
27	Secretary, WIE Affinity Group	<b>Ms. K Sunita Beevi</b>	90334371
28	Member, Awards Committee	<b>Mr. Amarnath Raja</b>	41431378
29	Member, Awards Committee	<b>Mr. Sasi PM</b>	40293392
30	Member, Awards Committee	<b>Mr. Sathees Babu</b>	41569372
31	Chair, Student Activities	<b>Ms. Mini Ulanat</b>	80492168
32	Vice Chair, Student Activities (Travancore)	<b>Ms. Sunitha Beevi</b>	90334371
33	Vice Chair, Student Activities (Kochi)	<b>Mr. Paul Ansel V</b>	41435923
34	Vice Chair, Student Activities (Malabar)	<b>Mr. Edet Bijoy K</b>	91163876
35	Membership Development Coordinator	<b>Mr. Shahim Baker</b>	85003272
36	Chair, Professional Activities	<b>Mr. Pradeep Balachandran</b>	40283040
37	Secretary, Professional Activities	<b>Mr. Jithin Krishnan</b>	90236277
38	IEEE and Society	<b>Prof K.P. Mohandas</b>	2960151
39	Inter Society Activities	<b>Mr. J Muraleemohan Lal</b>	4134722
40	Chair, Conference Activities Board	<b>Mr. E E Rajakumar</b>	7321631
41	Convener, Conference Activities Board	<b>Mr. K.B. Senthilkumar</b>	90361123
42	Chair, Educational Activities	<b>Mr. S Gopakumar</b>	1758028
43	Vice Chair, Educational Activities	<b>Dr. M V Rajesh</b>	
44	Publications	<b>Mr. K Gopalan Nair</b>	1224104
45	Industry Coordination	<b>Mr. Suresh Narayan</b>	41614636
46	Electronic Communication Coordinator	<b>Mr. Vijay S Paul</b>	90532958
47	Section Webmaster	<b>Mr. Farish cv</b>	90728097
48	Student Representative	<b>Mr. Bibin Mathew Joseph</b>	91142034
49	NDLP/SDLP Co-ordinator	<b>Dr. Lillykutty Jacob</b>	41373703
50	Chair, PIE (Promotion of Innovation and Entrepreneurship)	<b>Mr. Sasi PM</b>	40293392

51	Secretary, PIE	Mr. Arjun R Pillai	80574126
52	Chair, SIGHT	Mr. Jayakrishnan M C	90527518
53	Member At Large	Dr. D S Rane	1387794
54	Member At Large	Prof. Gomathy K Muraleedharan	7352040
55	Member At Large	Mr. N T Nair	6925275
56	Member At Large	Prof. V K Damodaran	4119145
57	Member At Large	Mr. Koruthu P Varghese	3976115
58	Member At Large	Mr. G.Vijaya Raghavan	1699214
59	Member At Large	Mr. N.A.P. Thampy	872887
60	Member At Large	Mr. Hareendralal AG	4136065
61	Member At Large	Mr. Sateesh Kumar K G	169321
62	Member At Large	Mr. A Suhair	7618390
63	Member At Large	Mr. A K Unnikrishnan	2960169

- Section Highlights
  - **31 Years of IEEE in Kerala**
  - **2 Sub Sections**
  - **5 Society Chapters**
  - **2 Affinity Groups**
  - **1 Special Interest Group**
  - **73 Student Branches**
    - **8 different society SB chapters**
    - **18 WIE AGS**
  - **5572 Members**
  - **Global recognitions**
  - **MGA Positions**
  - **IEEE Funded Projects – ECFDP, E-Scientia and more**
  - **New Chapter – SSIT**
  - **SIGHT projects**
  - **Mission 2020**
- Major Events (International, National)
  - **International Conferences - RAICS, GHTC-SAS and more**
  - **400 plus IEEE events across Kerala (including Student Activities)**
- Major Chapter Activities
  - **IEEE DLPs**
  - **Workshops**
  - **Professional Campaigns**
- Major Student and Affinity Group Activities
  - **LINK Face 2 Face**
  - **All Kerala Student Congress**
  - **WIE Congress**
  - **KITES 2013**
  - **LINK CAMP**
  - **246 SB Events within 73 SBs**

- Awards
  - **Mr. Satish Babu** - 2013 MGA Achievement Award (For continuous efforts in member engagement and development by promoting humanitarian technologies and fostering collaboration between the IEEE Computer Society and the Computer Society of India)
  - **Mr. Rayees Amar Nishad** - 2013 MGA GOLD Achievement Award (For exceptional leadership and outstanding contributions to IEEE young professional programs in Region 10)
  - **Mr. Ajin Baby** - 2013 MGA GOLD Achievement Award (For outstanding leadership in bringing students and young professionals together through innovative activities in IEEE Kerala Section and Region 10)
  - **Er. Hareendralal A G** was announced as the PES Chapter Outstanding Engineer Award for 2013.
  - **IEEE Kerala PES** wins 2013 IEEE PES Chapter Web Site Contest
  - **Kerala IAS Chapter** bags the following IAS Awards.
    - Outstanding SB Chapter – RIT SB
    - Outstanding New SB Chapter – Amrita SB
    - Chapter Web Contest – Amrita SB, RIT SB
    - Graduate Student Theses Contest – RIT SB (2 awards)
  - **Student Branch, Federal Institute of Science and Technology, Angamaly** (1<sup>st</sup> Place in Region 10 Student Branch Website Contest)
  - **Student Branch, College of Engineering, Trivandrum** (Runner up 2013 R10 exemplary SB award)
  - **Dr. K Suresh**, College of Engineering, Trivandrum gets awarded with Outstanding Branch Councilor Award
  - **Prof. Rajesh Kannan**, Amrita Vishwa Vidyapeetham gets awarded with Outstanding Branch Councilor Award
  - **College of Engineering, Chengannur** wins the Darrel Chong student activity award in Silver category
  - **Eight students** from Kerala Section announced as winners of Richard E Merwin Scholarship in 2013
    - Mr. Athul Balan E. A, from Amritha V V
    - Ms. Vishaka Khone from FISAT
    - Ms. Irene Susan Mathew CoE, Chengannur
    - Mr. Rahul Ravindranath from CET, Trivandrum
    - Mr. Vishnu Shankar from KMCET Calicut
    - Mr. Gautham Ravindran from Amrita, Kollam
    - Mr. Tom Charley from Amrita, Kollam
    - Mr. Sandeep C from Adi Shankara College of Engineering
  - **Kerala Section** Bags the Individual Benefits & Services Committee (IB & SC) Award for the Section with the best proposals for local benefit schemes 2013. **Mr. K N Madhu**, *Senior Member, IEEE Kerala Section*, received the award for submitting the best proposal in the Member Category.

- **Achievements**

- **Er. S Gopakumar**, Chair IEEE Kerala EAC, was elected to the office of MGA as Vice Chair of Information Management – 2014.
- **Mr. Satish Babu**, former Chair, was elected to the Nominations Committee (NomCom) of *Internet Corporation for Assigned Names and Numbers (ICANN)* for 2014, representing Asia-Pacific geographical area



- ICANN is mandated with the coordination of the global Internet's systems of unique identifiers such as domain names and IP addresses, and, in particular, ensuring its stable and secure operation.

## A.2 Financial Report – (Please follow the format given below)

- Summary (as per submitted L50) :: **Balance Sheet as per Net Suite Submission**

**IEEE**

**IEEE : Region 10 : Region 10 INR**

**Balance Sheet**

**End of From Jan 2013 to Dec 2013**

<b>Financial Row</b>	<b>Amount</b>
<b>Current Assets</b>	
<b>Bank</b>	
70199 - Indian Overseas Bank KERALA	Rs.2,265,775.48
70200 - Custody Banking Section KERALA	Rs.245.54
72242 - KERALA Petty Cash	Rs.3,872.04
<b>Total Bank</b>	<b>Rs.2,269,893.06</b>
<b>Accounts Receivable</b>	
11900 - Accounts Receivable	Rs.343,450.00
<b>Total Accounts Receivable</b>	<b>Rs.343,450.00</b>
<b>Total Current Assets</b>	<b>Rs.2,613,343.06</b>
<b>Current Liabilities</b>	
<b>Accounts Payable</b>	
20105 - Accounts Payable	Rs.124,835.40
<b>Total Accounts Payable</b>	<b>Rs.124,835.40</b>
<b>Total Liabilities</b>	<b>Rs.124,835.40</b>
<b>Current Assets Less Current Liabilities</b>	<b>Rs.2,488,507.66</b>

<b>Total Assets Less Current Liabilities</b>	<b>Rs.2,488,507.66</b>
<b>Long Term Liabilities</b>	
74246 - Reserve Allocation Payable	Rs.95,597.81
<b>Total Long Term Liabilities</b>	<b>Rs.95,597.81</b>
<b>Total Assets Less Total Liabilities</b>	<b>Rs.2,392,909.85</b>
<b>Capital and Reserves</b>	
Retained Earnings	Rs.1,370,053.89
Net Income	Rs.1,022,855.96
<b>Total Capital and Reserves</b>	<b>Rs.2,392,909.85</b>

- Any other financial activities

## PART B - ORGANIZATIONAL ACTIVITIES

### B.1 Membership Development Activities

- Total number of active members in the past 3 years.

Member Grade	Membership as on 31st December			Change in CY (%)
	2011	2012	2013	
Life Senior Members	8	8	10	<b>20</b>
Senior Members	57	60	74	<b>18.92</b>
Members	692	950	916	-3.71
Associate Members	50	27	35	<b>22.86</b>
Affiliate Members	-	-	4	<b>100</b>
Graduate Student Members	467	427	477	<b>10.48</b>
Student Members	3903	4290	4092	-4.84
<b>Total</b>	<b>5177</b>	<b>5762</b>	<b>5572</b>	<b>-2.75</b>

- Summary and evidence of work done to improve the value of membership, which leads to retention and growth of members
  - **Membership benefits to Kerala Section members has been improved by way of introducing new schemes as below**
  - **Special offer to Reliance Netconnect + (Wireless Internet Data Cards and Special Tariffs)**
  - **Special offer on Asianet Broadband connections**
  - **Special Tariff at The Quilon Beach Hotel and Resorts Ltd**
  - **Special Tariff at Kerala Tourism Development Corporation**
  - **Special Tariff for student members for skill development trainings at Grey Techno Labs Pvt Ltd**
  - **Special discount rates for Computer Hardware Purchases from Logitech Computers Pvt Ltd**

## B.2 Chapter Activities

- Total number of Chapters in the Section
  - **5 Chapters**
    - **Computer Society**
    - **COMSOC**
    - **PES**
    - **IA/IE/PEL Joint Chapter**
    - **SSIT Chapter**
- Number of Chapters formed in the current year
  - **1 Chapter**
    - **SSIT**
- Number of Active Chapters (Chapters who have reported required number of meetings during the year)
  - **5 Chapters**
    - **Computer Society**
    - **COMSOC**
    - **PES**
    - **IA/IE/PEL Joint Chapter**
    - **SSIT Chapter**
- Summary of Chapter activities chapter wise with attachment table / information
  - **PES**



- Talk on Power and Energy by **Ms. Meliha Selak**, Vice President, PES Chapters was organized at Hotel SP Grand Days, Trivandrum (Jointly organized by IEEE Kerala Section & IEEE PES Chapter)
- Seminar on Recent trends in Power and Energy
- Talk on “IEEE Awareness & Energy Saving in Homes” at Kollam Rotarian’s meet
- State level Paper presentation contest on 'Grid Connectivity of Renewable Energy – Issues & Solutions’
- District level paper presentation
- Seminar on "Electricity from Sun : Sharing Experience"
- Energy Conservation Seminar
- National Conference “RIPOC “13”
- Personality Development Program
- Workshop on Free and Open Source Software
- PES QUIZ 2013
- PES GOLD Meet





- PES WiP Meet
- International Seminar on Power & Energy

○ **COMSOC**



- Talk on *User, Hacker, Builder, Thief: Creativity and Consumerism in a Digital Age* by **Dr. Beth Kolko, University of Washington U.S.A.** on 23 February at Hotel Keys, Trivandrum (Organised jointly by IEEE Kerala Section, IEEE Communication Society Chapter, IEEE Computer Society Chapter & ICFOSS)
- DLP on *Halo Nets; The future of Telecommunications* by **Dr. Roberto Saracco, Director, EIT Venice**, on 23<sup>rd</sup> March at SJCET, Palai
- Talk on *"Networking the Cloud: Enabling Enterprise Computing and Storage"* by **Dr. K. K. Ramakrishnan, AT&T Fellow, IEEE Fellow (Distinguished Member of Technical Staff, AT&T Labs-Research)** on 5<sup>th</sup> August 2013
- IEEE COMSOC and Start-up village jointly mentored six student projects
  - All completed
  - 2 highly successful
  - 1 is at the verge of being registered as a company
  - Participated in organizing IEEE ANTS 2013



○ **IA/IE/PEL**

- TAP Energy 2013 ( National Conference on Technological Advancements in Power and Energy)
- Workshop on "Introduction to Microprocessor Programming"
- Workshop on "Wind Energy Assessment and Simulation "



- Industrial Visit " Unipower Systems , Kottayam"



- Industrial Visit “ Kallada Hydro Electric Project”
- Awareness talk on “Role of Women in Industry: How to be an Efficient Manager”

#### ○ COMPUTER SOCIETY

- Talk on *User, Hacker, Builder, Thief: Creativity and Consumerism in a Digital Age* by **Dr. Beth Kolko, University of Washington U.S.A.** on 23 February at Hotel Keys, Trivandrum (Organised jointly by IEEE Kerala Section, IEEE Communication Society Chapter, IEEE Computer Society Chapter & ICFOSS)
- Workshop on Advanced Android Programming
- FOSS Young Professionals Meet
- Talk on Cyber Security by **Dr. H. S. Lallie, Senior Technical Fellow, University of Warwick**
- IEEE CS Distinguished Lecture Program - Talk on "The Emerging Internet of Things: Concepts, Enabling Technologies and Applications" by **Dr. Xun Luo, Qualcomm Inc** on 19<sup>th</sup> December, 2013 at Hotel Mascot, Trivandrum.



#### ○ SSIT

- IEEE Kerala Section Chapter, Society on Social Implications of Technology (geo code: CH10651) was approved
- Officially inaugurated on December 7th 2013
- Organized a Panel Discussion on the theme: "The Society-Technology Interface: Emerging Challenges for Humanity" with Mr. Anthony Lobo, TCS/Bombay Section, Mr. Atul Negi, Univ. of Hyderabad/Hyderabad Section, Mr. Amarnath Raja, Ms. Sarada Jayakrishnan & Mr. Ranjith R Nair from Kerala section as panelists.



### B.3 Professional and Continuing Education Activities

Summary of continuing Educational activities including conferences, technical activities, training courses, and distinguished lecture programs with attachment table / information

- **Conferences**

- **IEEE GHTC South Asia Satellite – 23rd & 24th August, 2013**

- Kerala Section organized and hosted the 2013 edition of Global Humanitarian Technology Conference's South Asia Satellite
- A satellite of the Global Humanitarian Technology Conference, Silicon Valley
- Prof. Kannan Moudgalya of IIT Bombay, delivered the keynote on "Humane weapons of mass instruction" and explained the concept of spoken tutorials and Aakash, a low-cost tablet device introduced by the Government of India.
- Sri P H Kurien, Principal Secretary for Information Technology, Kerala State inaugurated the Conference



- **RAICS 2013 : 19-21, December 2013**

- RAICS 2013 : Biennial Conference on Recent Advances in Computational Systems
- Set new standards
  - 166 papers received
  - 5 Blind Reviews : a milestone in Quality assurance!!!
  - 79 papers accepted after multiple revisions
- Tutorials
  - 4G : LTE by Dr. S Srikanth, Harris Corporation
  - HADOOP by Mr. Krishna Kumar, Yahoo
- Plenary
  - Dr. Manish Gupta, Director, Xerox Research Centre, India
  - Dr. U B Desai, Director, IIT – H



○ **iMac4s** - 21st – 23rd of March, 2013

- Financially Co-sponsored International Multi - Conference on Automation, Communication, Control, Computing and Compressive Sensing
- Hosted at St. Joseph's College of Engineering & Technology, Palai
- 634 papers received from 12 countries
- 204 selected , 173 presented



○ **AICERA 2013 - 4th – 6th of June 2013**

- Technically Co-sponsored Annual International Conference on Emerging Research Areas - International Conference on Microelectronics, Communication and Renewable Energy
- Hosted and organized by Amal Jyothi College of Engineering, Kanjirappally
- 551 papers received
- 201 selected and 125 presented



○ **ICCC 2013 - 13-15 Dec 2013**

- Technically Co-sponsored International Conference on Control, Communication and Computing (ICCC 2013) at The Residency Tower, Thiruvananthapuram
- Pre-conference tutorial was held at College of Engineering Trivandrum by **Dr. L. Umanand, IISc Bangalore** and **Dr. Sankaranarayanan, NIT, Trichy**
- Plenary lecture by **Dr. Prahlad Vadakkepat, National University of Singapore**



- **Other Technically Co-sponsored International Conferences**
  - International Conference on Information and Communication Technologies (ICICT-2013) - 11-12 April 2013, N.I. Centre for Higher Education, Thuckalay.
  - International Conference on Power Electronics Application to Power Systems (PEAPS 2013) - 07-09 August 2013, ToCH,
  - International Conference on Advances in Computing & Communications (ICACC-2013) – 29-31 August 2013, Rajagiri School of Engineering & Technology/CCC 2013 - 13-15 Dec 2013
- **Distinguished Lecture Programs**
  - Talk on User, Hacker, Builder, Thief: Creativity and Consumerism in a Digital Age by Dr. Beth Kolko, University of Washington U.S.A. on 23 February at Hotel Keys, Trivandrum
  - Halo Nets; The future of Telecommunications by Dr. Roberto Saracco, Director, EIT Venice, on 23rd March at SJ CET, Palai
  - Talk on "Networking the Cloud: Enabling Enterprise Computing and Storage" by Dr. K. K. Ramakrishnan, AT&T Fellow, IEEE Fellow (Distinguished Member of Technical Staff, AT&T Labs-Research) on 5th August 2013
  - IEEE CS Distinguished Lecture Program - Talk on "The Emerging Internet of Things: Concepts, Enabling Technologies and Applications" by Dr. Xun Luo, Qualcomm Inc on 19th December, 2013 at Hotel Mascot, Trivandrum.
  - Talk on Power and Energy by Ms. Meliha Selak, Vice President, PES Chapters was organized at Hotel SP Grand Days, Trivandrum.
- **Training Programs organized**
  - Hands on Certification Program on Labview
  - Training on PIC microcontrollers
  - Training on Embedded Systems
  - Technical talk series
    - Medical Ethics
    - IPR

#### B.4 Students Activities

- Total number of Student branches in the Section
  - **73 SBs**
- Number of Student branches formed in the current year
  - **5 New SBs**
    - Sree Narayana Guru College of Engineering and Technology, Payannur
    - Muslim Association College of Engineering, Venjaramood
    - Malabar College of Engineering, Deshamangalam
    - College of Engineering, Trikkaripur

- Sree Budha College of Engineering, Pattoor
- **7 New WIE AGs**
  - LBSITW
  - CoE, Trikkaripur
  - CoE, Kidanagoor
  - Musaliar College of Engg & Tech, Pathanamthitta
  - KMEA, Edathala
  - SCMS, Karukutty
  - CUSAT
- **New Technical Society Chapters in SBs**
  - **Solid State Circuit Society**
    - Saintgits College of Engineering, Kottayam
  - **PES**
    - Mohandas College of Engg & Technology
    - Amritha Vishwa Vidyapeetam
  - **ComSoc**
    - Amritha Vishwa Vidyapeetam
  - **CS**
    - Amritha Vishwa Vidyapeetam
    - FISAT
  - **IES**
    - Amritha Vishwa Vidyapeetam
  - **IAS**
    - M.A.College of Engineering, Kothamangalam
    - College of Engineering, Munnar
    - Vimal Jyothi College of Engineering, Kannur
  - **Robotics Automation Society**
    - SCMS, Karukutty
    - FISAT, Angamaly
    - CoE, Chengannur
    - CUSAT
    - KMEA
- Section level student activities (student congress, paper and other contests, awards etc)
  - **LINK Face 2 Face Meet**
    - Venue – MEA, Perinthalmanna
    - No: of SB's – 36
    - No: of Students – 218
  - **LINK Branch Counsellors Congress**
    - Venue – KMEA(Kochi HUB)/ KMCT (MALABAR HUB)/ COE (Travancore Hub)
  - **KITeS – Kerala IEEE Technical Symposium**
    - Venue – GECT (Kochi Hub)
    - **No: of SB's – 63**
    - **No: of Students – 408**
  - **All Kerala Student Congress**
    - Venue – VJCE (Malabar Hub)
  - **All Kerala WIE Forum**



- Venue – College of Engineering, Trikkaripur (Malabar HUB)
- **LINK Camp**
  - Venue – TKMCE (Travancore HUB)
- Number of Active Student branches (Student branches who have reported required number of meetings during the year)
  - **70 SBs**
- Summary of Student branch activities student branch wise with attachment table / information
  - **250 +** activities reported in individual SBs.
  - Separate SAC activities reports may be attached.

### B.5 Affinity Group Activities

- **GOLD**
  - **Community Engagement Workshop** : CEW with NGOs working in Humanitarian Domain
    - A Platform for Engineers in humanity to meet those who work on the ground and understand better on their needs and thus contribute more to the IEEE and its humanitarian activities



- IEEE SIGHT received USD 2500 to host a community engagement workshop
- **Early Career Faculty Development Program**
  - IEEE GOLD & IEEE Kerala Section Organized an Early Career Faculty Development Program
  - Dr. Micheal Lightner, VP IEEE EAB visited the section on July 19th to discuss on the same.



- A pilot project was approved and was organized at Vidya Academy of Science and Technology, Trissur.

#### ○ Eyes Free Science Camp

- A 10 day camp for the differently abled school students
- IEEE Kerala GOLD and 'Chakshumati' co organized the science



camp



- Resulted in renewed confidence on why not the visually impaired students study science and mathematics

#### ○ FOSS Young Professional Meet, STEP and VOLT





- WIE
  - An all women SME start-up is being mentored
    - The WiE AG of IEEE Kerala section setting up a mechanism to support all-women start-ups in Information Technology and related technology domains. The relevance of this idea of support to all women entrepreneurship is the first of its kind in India and that too specifically to Engineers. WiE of IEEE Kerala Section has identified a very socially relevant problem and is trying to find solution
  - WIE Face 2 Face meet organized. 55 members attended.
  - WIE working committee meeting conducted with 6 members
  - Visit to Girls orphanage. 11 members attended.
    - VISIT TO ABHAYA BALA, ORPHANAGE FOR GIRLS -As part of the student activities of WIE AG, IEEE Kerala Section, a visit was made to Abhaya Bala on Saturday, 27th July 2013. The main objective of the event was to teach the girls Science and Computer. The event was held as two separate sessions, both in parallel. The students were divided based on their age group. The younger group was taught science with the help of demonstrations and experiments. The fields covered included light, its illusions, as well as properties of light. The session ended with a quiz and some puzzles. The elder students were taught basics of computer hardware, software, operating systems, open source software and also, an overview of Windows and Linux. They were also taught coding languages, HTML coding and some demonstrations on how to code and the results obtained. The session was concluded with a summary of the session by one of the students and a quiz. The feedback from the students and their manager was encouraging.
  - Advaya 2k13
    - All Kerala WIE Students Forum was conducted at CoE, Kasargode.
- Life Member
  - Members identified for starting of LM AG

## B.6 Awards & Recognition Activities

- Award constituted by the section
  - **Outstanding Volunteer: Dr. Suresh Kumaraswamy**
    - in recognition and appreciation of his services and contributions towards publication of IEEE International conferences and towards the student branch activities
  - **Outstanding Young Professional: Mr. Ranjith R Nair**
    - in recognition of his activities for the Young Professionals over the years and his dedicated service to IEEE Section Activities in General
  - **Best Chapter 2013: Power Engineering Society**
    - for being the most vibrant chapter in Kerala Section for the year 2013.
  - **Contribution to Conference Activities: Mr. Senthil Kumar KB**

- in recognition and appreciation of his services and contributions towards the conference activities of IEEE Kerala Section
    - **Outstanding Student Branch: Amritha Vishwa Vidyalaya**
      - Runner Up: Model Engineering College
    - **Outstanding Branch Councillor:**
      - `Dr. K Meenakshy
    - **Outstanding Student Volunteer**
      - Ms. Arya Nair
    - **Outstanding WIE Volunteer**
      - Ms. Divya Nair
  - **Certificates of Appreciation**
  - **Mr. Pradeep Balachandran**
    - in recognition and appreciation of his services and contributions towards the Professional activities and conference activities of IEEE Kerala Section
  - **Ms. Mini Ulanat**
    - in recognition and appreciation of her services and contributions towards e-Scientia Project and Student Activities of IEEE Kerala Section
  - **Dr. Suresh Nair**
    - in recognition and appreciation of his services and contributions towards e-ScientiaProject
  - **Mr. Nadakumar R Nandanam**
    - in recognition and appreciation of his services and contributions towards the IEEE activities in Malabar area
- Award(s) received from R10
  - **Mr. Sasi P M**, former Chair, Kerala Section, was announced as the R10 Outstanding Volunteer for 2013
- Award(s) received from IEEE HQ
  - **Mr. Satish Babu** - 2013 MGA Achievement Award
    - For continuous efforts in member engagement and development by promoting humanitarian technologies and fostering collaboration between the IEEE Computer Society and the Computer Society of India.
  - **Mr. Rayees Amar Nishad** - 2013 MGA GOLD Achievement Award
    - For exceptional leadership and outstanding contributions to IEEE young professional programs in Region 10.
  - **Mr. Ajin Baby** - 2013 MGA GOLD Achievement Award



- For outstanding leadership in bringing students and young professionals together through innovative activities in IEEE Kerala Section and Region 10.

### **B.7 Communication Activities (Newsletter, Home Page, E-mail etc.)**

- Newsletter (name and number of issues in the year)
  - Kerala Section Newsletter
    - 4 issues : 3 e-newsletters and 1 annual hard copy
  - 4 issues of LINK Line : Student activities Newsletter
- Home Page of the section (give the URL and frequency which it is updated)
  - [www.ieeekerala.org](http://www.ieeekerala.org)
  - Regularly as and when required
- Other means of contacts with section members
  - Group mail
  - Personal letters by surface mail
  - Annual season's greetings by surface mail
  - IEEE Kerala in Social media
    - Facebook
    - LinkedIn
    - Twitter
- Personal telephone call at intervals

### **B.8 Industry Relations**

- Membership growth and retention
  - Awareness talks and Specialized workshop/trainings at Industry
  - Members from
    - ◇ Kerala State Electricity Board
    - ◇ Indian Space Research Organization
    - ◇ Naval Physical and Oceanographic Laboratory
    - ◇ Defense Research & Development Organization
    - ◇ Center for Development in Advanced Computing
    - ◇ Kerala State Electronic Development Corporation
    - ◇ Center for Development of Imaging Technology
    - ◇ Various IT Companies
- Activities for/with industrial members
  - Conferences
  - Technical Talks
  - DLPs
  - Workshops and training programs

**B.9 Humanitarian Technology Activities**

- **Wheeled Patient Monitoring System**, an autonomous system to continuously monitor patients with impaired movements being developed with funding support from IEEE Region10 Humanitarian Technology Activities (HTA) fund
- **Solar lighting System**, developed and implemented at highly terrain locations
- **COMSOC Humanitarian Project Competition**

**B.10 Community Activities**

- IEEE Social activities (Family day, IEEE day, Engineers Week)
  - IEEE Day celebrated at various locations in the state
  - Brainstorming on **Kerala Mission 2020** held on IEEE Day at Trivandrum
    - ✧ To discuss on future of Kerala Section
    - ✧ Attended by Past, Present and Future leaders of Kerala Section
  - National Engineers Day Celebrated at various locations in Kerala

**PART C - OTHERS****C.1 Relationship with National Societies**

- Maintaining and continuing strong and valuable relationship with
  - ✧ THE INSTITUTION OF ENGINEERS (INDIA) Kerala State Centre
  - ✧ COMPUTER SOCIETY OF INDIA
  - ✧ AERONAUTICAL SOCIETY OF INDIA
  - ✧ SYSTEMS SOCIETY OF INDIA
  - ✧ THE INSITUTE OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS
  - ✧ PROJECT MANAGEMENT INSTITUTE
  - ✧ INDIAN NATIONAL SOCIETY FOR AEROSPACE AND RELATED MECHANISMS
  - ✧ SOCIETY OF AEROSPACE MANUFACTURING ENGINEERS
- Conducted 42 Wednesday Talks in association with the above sister societies

2 01 2013	Road Safety in Kerala Requires Radical Changes in Approach	Mr.M.N.Prasad, Chairman (Retd.), Indian Railway Board
9 01 2013	Strength of Cooperative Relationship in Dairy Sector	Shri.Prayar Gopalakrishnan Former Chairman MILMA & Ex MLA
16 01 2013	Harnessing Renewables - With Care for Ecological Sensitivities	Mr.N.T.Nair, Chief Editor, Executive Knowledge Lines (monthly), Thiruvananthapuram
23-01-2013	Technology Based Emergency Systems and Solutions	Mr. P.A.Paul, Ex Vice President, Siemens

30 01 2013	Recent Trends in Machine Tools and Machining	Mr.Hanumantray Baluragi, VSSC, Thiruvananthapuram
6 02 2013	Chemical Accidents, Causes and Remedies with Case Histories	Mr.P.N.Narayana Pillai, General Manager (Retd.), FEDO, FACT & Chairman, Manpower Utilisation and Safety Training Institute, Aluva
27 02 2013	Dangers of Polypharmacy or Taking Multiple Drugs	Dr.Venugopal S. Reddiar, MD, MRCP (UK), General Medicine & Geriatrics, New York, U.S.A.
6 03 2013	National Safety Day 2013 Celebrations topic Explosives & Chemical Safety	Dr.A.G.Rajendran
		Group Director, Space Ordinance Group, Vikram Sarabhai Space Centre, Thiruvananthapuram
13 03 2013	Human Error and System Safety	Mr.R.B.K.Menon, Group Head, PPEG (Retd.), VSSC, Thiruvananthapuram
20 03 2013	Water Cooperation	Dr.Nandakumaran.P
		Regional Director, Central Ground Water Board, Kerala Region, Thiruvananthapuram
27 03 2013	How to Make Projects Click in Kerala	Mr.Anilkumar Pandala, Vice President, Thiruvananthapuram Road Development Company Ltd.
3 04 2013	Engineering Approach to Problem Solving	Mr. E.J. Francis
		Retd Group Director, CCQG, VSSC, Thiruvananthapuram
10 04 2013	Vision Solar Kerala -2013	Mr.K.Sivadasan
		Deputy Chief Engineer (Retd.)
		KSEB, Kollam
17 04 2013	Quality Management Tools in Everyday Life	Mr.K.R.Mohan Ananthanarayanan
		DGM-QCE, VSSC, Thiruvananthapuram
24 04 2013	Effective Communication Skills	Mr.Joseph Abraham, Life Insurance Corporation of India, Thiruvananthapuram
8 05 2013	National Technology Day 2013 Celebrations	Mr. Nidhi M.B., Assistant Professor, Department of Mechanical Engineering,
	Lecture on the topic 'Green Supply Chain Management'	Mar Baslios College of Engineering & Technology, Thiruvananthapuram
15 05 2013	World Telecommunication and Information Society Day 2013 Celebrations theme "ICTs and Improving Road Safety"	Mr.G.Ravikumar, Scientist-F
		National Transportation Planning & Research Centre (NATPAC), Thiruvananthapuram
22 05 2013	5 S Methodologies	Mr.K.R.Mohan Ananthanarayanan
		DGM-QCE, VSSC, Thiruvananthapuram
29 05 2013	Technology Evolution from Industrial Revolution to the	Dr. Padmanabha S. Pillai, Director (Technology), M. T. I. Associates, Ohio,

	Present Resource Limited World	U.S.A.
12 06 2013	Futuristic Green Liquid Propellant	Shri.A.M. Nallaperumal Scientist/Engineer, SF, PCM, Vikram Sarabhai Space Centre, ISRO, Thiruvananthapuram
19 06 2013	Metal Joining by Welding – An Overview	Dr.S.Biju EFA, MME, Vikram Sarabhai Space Centre, ISRO, Thiruvananthapuram
26 06 2013	The Story of Soviet Moon Rocket	Mr.A.K. Ashraf Head, Structural, Dynamics & Analysis Division, LPSC, ISRO, Valiyamala, Thiruvananthapuram
3 07 2013	Why Dengue in Epidemic Proportions & How to Check It?	Mr.E.M.George Former Scientist/Engineer, SF, MSD, Vikram Sarabhai Space Centre, ISRO, Thiruvananthapuram
17 07 2013	What coaching is all about	Dr.K.Lalitha Prasad, Centre Head (Retd), Tata Consultancy Services, Thiruvananthapuram
24 07 2013	Introduction to Medical Ethics	Dr.Anoop Kumar, Scientist, Molecular Biology and Head Medical Ethics Committee, Department of Science and Technology, Government of India
31 07 2013	Atom Interferometry based Initial Sensing and Precision Inertial Navigation System	Dr.P.P.Mohanlal Associate Director, IISU, Thiruvananthapuram
7 08 2013	12 years of Malayalam Computing and the way forward	Mr.Anivar A. Aravind, Secretary, Swathanthra Malayalam Computing
21 08 2013	Joy of Reading	Mr. M. Hari Kumar, Retd. Scientist/Engineer, VSSC, Thiruvananthapuram
28 08 2013	Space Travel	Mr.P.Radhakrishnan, Scientist (Retd.), Vikram Sarabhai Space Centre, Thiruvananthapuram.
4 09 2013	Communication - Transactional Analysis and Neuro Linguistic Programming	Mr.Mathew Vengal, Retd. AEE, PWD, Thiruvananthapuram
25 09 2013	Engineering in Hospitals	Mr. V.S.S.Nair, Consultant - Hospital Engineering, Thiruvananthapuram
2 10 2013	World Habitat Day Theme “Urban Mobility”	Prof.J.Jayakumar Principal, College of Architecture Thiruvananthapuram

9 10 2013	Why Mars Mission ?	Mr.E.J.Francis
		Former Scientist, VSSC, Thiruvananthapuram
23 10 2013	Good Patients vs Bad Patients	Dr. Venugopal S. Reddiar MD, MRCP [UK]
		General Medicine & Geriatrics
		New York, USA
30 10 2013	Workers as Partners of Organisations	Dr. N.Narayana Pillai
		Professor Emeritus, Amrita University and Director(Academic)
6 11 2013	Global Port Development and Impact on Cities	Mr. Deepak Benny
		Ports and Maritime Consultant
13 11 2013	Engineering and Sustainability Development	Dr Raj Kurup FIE, Aust, CPEng
		Director, Environmental Engineers International Pty Ltd
		Adjunct Professor, UWA and University of Missouri
		Perth, Australia
20 11 2013	New Media and Emerging Trends in Journalism	Sri.Rajendran Pandalam
		News Producer, Doordarshan
4 12 2013	Historical Perspective on Chitra and Technology its Transfers-	Mr.Ranjith D.
	A success Mantra on Intellectual Property Rights in India	Engineer, IP Cell, Sree Chitra Tirunal Institute for Medical Sciences and Technology
11 12 2013	Smart Metering - Electrical Utilities and Consumers to Benefit	Mr.N.T.Nair
		Chief Editor, Executive Knowledge Lines monthly.
18 12 2013	The God Particle and The World of Particles	Shri.Vysakhan Thampi, NIIST, Thiruvananthapuram.

## C.2 Special Events

- **Mission 2020**
- **Eyes Free Camp**
  - For the visually disabled
- **Early Career Faculty Development Program**
  - For early career faculties of engineering
- **E-Scientia museum exhibit**
  - For the society, technologist and students alike
- **Teacher in service Program**
  - For pre-university educationalists and students to create an interest in engineering as a career

## C.3 Problems to be Anticipated



- Student member retention
- Member retention
  - Attributed to economic factor (fluctuating USD conversion rates)
- Student to Professional member transition
- Improving member benefits

#### **C.4 Best Practices of your section (which you would like share with other sections for the benefits of members)**

- Participatory approach in Section Governance from all classes of members equally
- Pivotal advisory role in section's senior members
- Life members and senior members involved in section governance
- Enhanced Student network
- Student Representation in Sections decision making process
- Appreciating young professionals with appropriate guidance by life senior members

### **PART D - GOALS AND PLANS**

#### **D.1 Continuation of Project/Activity in Progress and Their Implementation Plans**

The following projects/Activities shall continue through the years to come. Events shall be hosted and organized with combined efforts from all involved in the section at various locations in the state so as to improve participation and broadening its effects all through the state.

- **E-Scientia Project**
  - Shall be implemented in Cochin University of Science and Technology Campus. Shall be open to students and public alike to improve IEEE visibility and fun is science education to pre university students.
- **Eye Free Camp**
  - Shall continue as a humanitarian and socially responsible activity to bring the visually impaired into science and science related fields
- **Continuing Education Congress**
  - Early Career Faculty Development Program : Shall continue to educate and motivate young and bright talent to the academia
- **Teacher In Service Program**
  - Shall continue to improve science interest in pre university teachers and students alike
- **COMSOC Project Competition**
- **Student Humanitarian Project Competition**
- **Student Network - LINK**
- **STEP**

## D.2 Goals and Future Plans

- Will start at least three new Society Chapters by end of year
- Will start at least two new Affinity Groups by end of year
- Aims to cross the 1250 professional members mark by the end of year

## Sub-Section Activities

- Malabar Sub-Section
  - National Conference on Communication, Information Technology and Signal Processing (CISP -2013) on 01nd & 2nd March 2013 at Govt. Engineering College Wayanad
  - IEEE- Student Branch Inauguration at GEC Wayanad on 12th March 2013
  - IEEE – NIELIT National Workshop on VHDL, on 09th & 10th March 2013
  - IEEE – NIELIT National Workshop on VERILOG HDL, on 06th & 07th April 2013
  - ROAD MAP TO SUCCESS IN ENGINEERING STUDIES 2013
  - IEEE – NIELIT National Workshop on PCB Design, on 14th August 2013
  - IEEE – NIELIT National Workshop on Prototyping using FPGA, on 27th September 2013
  - IEEE – NIELIT- NUIPL National Workshop on Biomedical Ultrasound, on 05th October 2013
  - IEEE – NIELIT National Workshop on RTL Verification, on 25th & 26th October 2013
  - IEEE NATIONAL WORKSHOP ON ANTENNA DESIGN USING HFSS 7th & 8th November 2013
  - National Conference on Signal Processing, Instrumentation and Communication (SPINCOM 2013) at M E S College of Engineering Kuttippuram, 29th & 30th Nov 2013



- Kochi Sub-Section
  - Talk on “Securing Critical Business Data”
  - Talk on : “Higgs Boson- The God Particle”
  - Photonics for Defense & Security
  - National Seminar on Current Advances in RF and VLSI Engineering (CARVE 2013)
  - Talk on “IT Act 2008 and its impact on Small to Medium Enterprises”
  - Training program on “Research frontiers in Networking, Clustering & Cloud computing”
  - Kochi
  - Workshop on “Software Defined Radio”
  - World Telecommunication Day Celebrations & Talk on “ICT and improving Road Safety”
  - Session on "How to Optimize Social Media Profiles"
  - Session on "Vedic Mathematics"
  - Session on " IEEE Membership Benefits "
  - Session on " Effective Presentations at the end of PowerPoint Era "
  - Kochi
  - Session on " How to SBs can EQUIP themselves to help the students get the best out of IEEE Membership "
  - IEEE Kochi Subsection Office Inauguration & IEEE Day Celebrations
  - Talk on " Leveraging Technology for Humanity"
  - “VIDYADAAN” :Educational Outreach Program
  - Talk on " Advances in RF & Wireless "
  - Talk on " Internet Of Things "
  - Session on " REST architecture style in era of Mobile Devices Era "
  - Webinar on " Strategies for using IEEE Xplore Digital Library "
  - Lecture on " Cyber Security “ ; " Need for a Secure Coastal Line "
  - Session on " Content Management Systems @User Finger Tips"
  - DVP on " The Emerging Internet of Things: Concepts, Enabling Technologies and Applications"

