

IEEE Kochi Subsection Activity Report 2013

Table of Contents

1. Talk on "Securing Critical Business Data"	2
2. IEEE Kochi Subsection Annual General Meeting	3
3. Talk on : "Higgs Boson- The God Particle"	5
4. IEEE Awareness Session at GEC Idukki	6
5. Photonics for Defense & Security	6
6. National Seminar on Current Advances in RF and VLSI Engineering (CARVE 2013)	7
7. Talk on "Electrical Safety"	7
8. Talk on "IT Act 2008 and its impact on Small to Medium Enterprises"	8
9. Training program on "Research frontiers in Networking, Clustering & Cloud computing"	9
10. Workshop on "Software Defined Radio"	9
11. World Telecommunication Day Celebrations & Talk on "ICT and improving Road Safety"	10
12. School Kit Distribution to Economically Backward Children	10
13. Session on "How to Optimize Social Media Profiles"	11
14. Session on "Vedic Mathematics"	11
15. Session on " IEEE Membership Benefits "	12
16. Session on " Effective Presentations at the end of PowerPoint Era "	12
17. Session on " How to SBs can EQUIP themselves to help the students get the best out of IEEE Membership "	13
18. IEEE Kochi Subsection Office Inauguration & IEEE Day Celebrations	13
19. Talk on " Leveraging Technology for Humanity"	14
20. "VIDYADAAN" :Educational Outreach Program	15
21. Talk on " Advances in RF & Wireless "	16
22. Talk on " Internet Of Things "	16
23. Session on " REST architecture style in era of Mobile Devices Era "	16
24. Webinar on " Strategies for using IEEE Xplore Digital Library "	17
25. Lecture on " Cyber Security "	17
26. Lecture on " Need for a Secure Coastal Line "	18
27. Session on Mind-To Market "	18

28. Webinar on " Strategies for using IEEE Xplore Digital Library " 19
29. Session on " Content Management Systems @User Finger Tips" 19
30. DVP on " The Emerging Internet of Things: Concepts, Enabling Technologies and Applications" 20

Talk on “Securing Critical Business Data”

Date: 23 Jan 2013

Venue: CSI Hall, Kaloor, Cochin

Speakers:

Mr. Shoukath Ali- Founder & CEO of INFIN Cyber Technologies Pvt Ltd, Kochi
Mr. Ravish Varun -Lead Auditor, Consultant, Project Manager and Trainer

On 23rd Jan 2013, IEEE Kochi subsection organized a technical talk on “Securing Critical Business Data” along with CSI, Cochin Chapter. Mrs. I.S. Ambika, Chairperson, CSI Cochin Chapter welcomed the gathering and introduced the speakers.

Mr. Shoukath Ali is an Electronics and Communication Engineer from College of Engineering Trivandrum. He has worked extensively in various domains of Information Technology in India and abroad for more than 25 years. During this period he has received various information security certifications and is trained on Interviewing and Interrogation techniques for Cyber Forensic Investigations. He was the Regional Chief Information Security Officer (CISO) for Honeywell Asia Pacific with operations in more than 10 countries till late 2011 and currently the Founder & CEO of INFIN Cyber Technologies Pvt Ltd, Kochi – a core information security assessment and consultancy organisation.

Mr. Ravish Varun is a Lead Auditor, Consultant, Project Manager and Trainer with over 8 years of experience in the field of Information technology. With over 4 years of auditing experience in certification bodies, he has conducted audits on ISO 9001 and 27001 over more than 80 man days for various organisations. He is a certified Lead Auditor for ISO 9001, 27001 and BS 25999 and has implemented multiple ISO 27001 full life cycle projects.



One of the greatest challenges facing today's business world lies in securing their critical business data from external and internal threats. The speakers discussed the mysteries surrounding Information Security in the one hour presentation. They also poured light on the top information security threats for 2013, an overview of the globally accepted ISO 27001 Information Security Standards and concluded with suggestions on safe secure practices.

Mr. Shahim Baker, Secretary, IEEE Kochi Subsection thanked the audience and the speakers. Mementos were gifted to the speakers by Mr. C. Unnikrishnan and Dr. Santhosh Kumar.

IEEE Kochi Subsection Annual General Meeting

Date: 9th Feb 2012

Venue: Hotel Seapark, Kalamasserry, Cochin

The Annual General Meeting of Kochi Subsection was held at Hotel Seapark, Kalamasserry on 9th Feb 2013. The Vice Chair of Kochi Subsection, Dr. Suresh Nair welcomed the gathering. Dr. Vasudevan read out the IEEE Code of Ethics. The annual report of the subsection was presented by Mr. Shahim Baker, Secretary, IEEE Kochi Subsection. On behalf of the Subsection Treasurer, the Secretary presented the financial reports prepared by the treasurer, Dr. Rajesh M.V.

Dr. Unnikrishnan, Chair IEEE Subsection mentioned the achievements and milestones of the Kochi Subsection, in his presidential address. He thanked all the members and volunteers for the support in conducting successful events in the subsection, especially the INDICON 2012.

Dr. Unnikrishnan, who was in charge of the nominations announced that as there was no nomination other than the official slate, the official slate will take charge as the Execom for the year 2013. The execom core team will be as:

Responsibility	Name
Chair	Dr. Suresh Nair K.R
Vice Chair	Mr. Simon Akkara
Secretary	Mr. Shahim Baker
Treasurer	Mr. Biju Paul
Student Activities Chair	Mr. Paul Ansel
Educational Activities Chair	Dr. Rajesh M.V
Industry Relations Coordinator	Mr. Suresh Narayanan
Professional Activities Chair	Dr. Samuel Varghese
Chair, Membership Development	Mr. Ajin Baby

Inter Society Relations Coordinator	Mrs. Mini Ulanatt
Webmaster & Electronic Communications Coordinator	Mr.Vijay S Paul
Student Representative	Ms.Visakha Khona
Advisory Committee Members	Dr.Unnikrishnan.A
	Dr.Vasudevan.K
	Mr. C.M.Varughese

The newly elected Chair, Dr.Suresh Nair addressed the members and presented his plans for Kochi subsection for the year 2013. He requested the members to come out as active volunteers and to give their valuable suggestions and support.

The website of Kochi Subsection, www.kochi.ieeekerala.org was launched during the event. As a token of appreciation of his efforts towards the creation of the website, Mr.Shahul Hameed was awarded an appreciation certificate. The volunteers from Rajagiri School of Engg & Technology, who worked hard towards the success of INDICON 2012 were honored with appreciation certificates, on the occasion.

Dr. Unnikrishnan announced that Mrs. Mini Ulanat is selected to receive Kochi Subsection's Best Volunteer Award for 2012. The award is to appreciate her dedication, sincerity & support in organizing various IEEE activities during the year 2012.

The newly elected execom interacted with the members. There were a lot of creative suggestions from the side of the members.

Mr.Simon Akkara, the newly elected Vice Chair, gave the vote of thanks. The meeting ended with a High-Tea and a networking session.



Talk on : “Higgs Boson- The God Particle”

Date: 22 Feb 2013

Venue: CSI Hall, Kaloor

Speaker: Dr.C.P. Girijavallabhan

On 22nd Feb 2013, IEEE Kochi subsection organized a talk on “Higgs Boson” along with CSI, Cochin Chapter. Mr.Simon Akkara, Vice Chair, IEEE Kochi Subsection welcomed the gathering and introduced the speaker.

Dr.C.P.G.Vallabhan took his M.Sc. and Ph.D. degrees in Physics from Kerala University and joined the University Centre at Cochin as a lecturer in 1969. He became a Professor of Physics in 1984 and became the Director of the University Science Instrumentation Centre at Cochin University of Science & Technology in 1986. He served as the Dean of the Faculty of Technology (2002-2007), and the Director (2002-2008) of the Centre of Excellence in Lasers and Optoelectronic Sciences (CELOS) at Cochin University of Science & Technology. He has been the Founder Director in 1995 of the International School of Photonics at CUSAT where he is also an Emeritus Professor presently. He is now the President of Kerala Science & Technology Society (India).

The Higgs boson or Higgs particle is a theoretical elementary particle predicted to exist by the Standard Model of particle physics. Experiments to detect the Higgs Boson resulted in the discovery of a new, previously unknown boson during 2012; however contrary to widespread misreporting, the new particle is still being studied as of 2013 to learn whether it is the Higgs boson or not. Confirmation that the Higgs boson exists would be monumental since it would finally prove the existence of the Higgs field. More than 50 years ago Peter Higgs and five other theoretical physicists proposed that an invisible field lying across the Universe gives particles their mass, allowing them to clump together to form stars and planets. Preferably known by its “marketed name”, The God Particle, the Higgs Boson explains why particles have mass - and in turn why we exist. Without the boson, the universe would have no physical matter, only energy.



IEEE Awareness Session at GEC Idukki

Date: 26 Feb 2013

Venue: Govt.Engg College, Idukki

Speakers: Shahim Baker, Vijay S Paul

As part of the membership development activities, Kochi Subsection In association with IEEE Kerala Section Membership development committee conducted an IEEE awareness session at Govt. Engineering College, Idukki. Shahim Baker and Vijay S Paul gave an overview of IEEE. They introduced the audience to various activities of IEEE, which are taking place globally and locally. The speakers shared their experiences with IEEE and how it benefitted them professionally and personally. They explained various Technical, Professional, Networking, Volunteering and other benefits of being an IEEE member. On behalf of Kochi subsection, they offered full support on starting a Student Branch at GEC Idukki.



Photonics for Defense & Security

Date: 27 Feb 2013

Venue: NPOL, Kochi

Speaker: Dr. Suresh Nair CTO, NeST Group (Chair IEEE Kochi subsection)

Immunity to Electromagnetic interference has made photonics systems preferred choice in defence and security applications. Recent advances in Photonics area have brought in a paradigm shift in communication, sensing as well as displays in strategic areas. The talk covered basic fiber optic components, Erbium Doped Fiber Amplifiers, Fiber Bragg Grating sensors, Transmitter Receivers as well as intrusion proof fiber optic cables used in defence applications. The talk emphasized possible data intrusions and preventive methods in optical communication with application to defence and security. Various case studies on systems developed were presented. Some of the interesting and advanced areas covered were Supercontinuum sources, RF over fiber, under water communication, Head up displays as well as Fiber vest.

National Seminar on Current Advances in RF and VLSI Engineering (CARVE 2013)

Date: 1st & 2nd March 2013

Venue: Auditorium, Department of Electronics, CUSAT

Speakers:

Dr. Suresh Nair CTO, NeST Group (Chair IEEE Kochi subsection)

Mr. ShrinivasBhat, Technical Director, Entuple Technologies, Bangalore

Mr. Jacob Mathews, Senior Manager, Storage SoC Design, LSI India Research & Development Pvt. Ltd., Bangalore

Dr. Suma.Neeraj M.N , Lead Scientist, GE Global Research Centre, Bangalore

Mr. Venkatesha S, Senior FAE, Entuple Technologies, Bangalore

The Division of Electronics Engineering, School Of Engineering, CUSAT organized CARVE-2013 with the technical support from IEEE Kochi Subsection on March 1 and 2, 2013. The two day event was inaugurated by Prof Godfrey Louis, Hon'ble Pro-Vice Chancellor, CUSAT and Prof P.S Sreejith, Principal, School of Engineering; CUSAT presided over the inaugural function. Prof K G NAIR, Director, C-SiS, CUSAT and Prof Poulose Jacob, Head, Department of Computer Science extended the felicitations. The seminar comprised of 6 sessions and each session was handled by lead scientist and researchers from the electronic industry. The sessions were: "Recent Trends And Enabling Technologies In RF And Microwaves, LTE UE Design Challenges, Low Power SoC Design, Wireless Power Transfer And Metamaterials, Low Power SoC Design FPGA: The Art Of Programmable Design.

A whopping 116 participants from a wider cross-section ranging from UG students to Professors participated in the 2 day event. The total number of external participants was 79. All the sessions were interactive and the participants were given ample opportunities to clarify all their queries. The participants were exposed to the recent advancements made in the industries and the whole event was a great success with complete participation from the audiences' side. Dr. Binu Paul and Dr. Rekha K James were the coordinators of the event. The program got a wonderful feedback from all the participants.



Talk on "Electrical Safety"

Date: 26th March 2013

Venue: Pathfinder Academy, 5th Floor, Sun Tower, East Fort, Thrissur

Speaker: Er. George C. Paul

The meeting started at 6.30 pm. The formal proceedings were preceded by tea and snacks.

Er.Nitin Padmanabhan welcomed the audience to the first meeting of IEEE Kochi Subsection in Thrissur. Dr. Sudha Balagopalan, Principal,Vidya Academy of Science & Technology inaugurated the first monthly meeting of IEEE Kochi subsection at Thrissur. She expressed hope that this event of monthly technical talk will grow in strength and stature in the coming days and provide an opportunity for more engineers from Thrissur area to join the ranks of IEEE.

Er. George C. Paul, member IEEE, presented the topic with aid of POWER POINT slides. He gave a review of growing number of **Electrical** accidents in the country and across the Globe and The need to address this serious problem.He discussed about Better design and work culture, Better understanding of the best practices and IEEE standards related to electrical safety. The presentation was well received, by the Engineers present. Lively discussion took place.

Meeting concluded with felicitation from Er. Veera Raghavan, Assistant Executive Engineer Of KSEB Madkkathara 400KV PGCIL receiving station. He also presented the memento to the speaker. The meeting dispersed at 8pm after Vote of thanks. The meeting had an attendance of 14 people which included participants from KSEB, faculty & students from Vidya Academy of Science & Technology,Thejus Engg college.



Talk on “IT Act 2008 and its impact on Small to Medium Enterprises”

Date: 29th April 2013

Venue: CSI Hall, Kaloor, Kochi

Speaker: Binoy Koonammavu, Value Mentor Consulting

Information Technology Act of India has been existing for about 12 years now. The initial IT Act came into force in 2000 and the latest amendments in 2009. The act enables India to recognize electronic commerce, electronic transactions and electronic evidences. With the 2008 amendment, the act aims to address the data privacy, information security, define reasonable security practices to



be followed by the corporates and defines a list of cybercrimes. The speaker explained various aspects of the Act and its impact on SMEs

Training program on “Research frontiers in Networking, Clustering & Cloud computing”

Date: 03-10 May 2013

Venue: Rajagiri School of Science & Technology, Cochin

From 3rd May to 10th May, a training program on Research frontiers in Networking, Clustering & Cloud computing was conducted by Rajagiri School of Science & Technology. The program's focus was on providing research directions in the areas of Networking, Clustering & Cloud computing. This training program helped the attendees to enhancing the technical know-how regarding the emerging technologies in networking, clustering and cloud computing. This program also initiated a dialog between theoreticians and practitioners, thus helping to bridge the theory-practice gap in this area. The audience included post graduates, research scholars from industry and



academia.

Workshop on “Software Defined Radio”

Date: 14,15,16 May 2013

Venue: Rajagiri School of Engg & Technology, Kochi

A 3 day workshop on Software Defined Radio, technically sponsored by IEEE Kochi Subsection was held on 14, 15, 16 May 2013.

Topics covered: Basic Concepts in DSP, Multi-rate DSP, Poly-phase Filters, Generalized Sample Rate Conversion (GSRC) Principle, Filter Bank Theory, CIC Filters, Wireless Standards, Wireless System Design, Multi-carrier Systems, Cordic, Channelization Techniques, Frequency & Time Synchronization Techniques, Exploiting Cyclostationarity, Cognitive Radio. Industry session on NI RF Hardware and USRP.

Resource persons:

The keynote address was delivered by Prof. R. David Koilpillai, EEDepartment, IIT Chennai on Cellular Evolution to 4G - Opportunities for SDR and SDR Enabled Cognitive Radio - A Perspective. The technical sessions were handled by experts from organizations like DRDO, CDAC, Amritha University, NIT Calicut, IIST Trivandrum and Industry (National Instruments).

World Telecommunication Day Celebrations & Talk on “ICT and improving Road Safety”

Date: 17th May 2013

Venue: CSI Hall, Kaloor, Kochi

Speaker: Mr. V.Raghuandan ITS; Deputy Director General, Telecom Enforcement and Resource monitoring

45th World Telecommunication Day (WTD) as proclaimed by United Nations General Assembly Resolution 2005 was celebrated jointly by four technical professional organization including IEI Kochi local Centre, IETE Kochi centre, IEEE Kochi subsection and CSI Cochin Chapter on 17th May 2013 at 6.p.m at CSI Hall Kaloor. Mr. SreePrakash.T, chairman IEI Kochi local centre welcomed the Fellows, members and participants. On the occasion of WTD Mr. Kumar, IETE Kochi centre read the message of Sh. Ban ki-Moon, Secretary General, United Nations Organization. The chief guest of the day was Mr. V.Raghuandan, ITS Deputy Director General, Telecom Enforcement and Resource monitoring. Ms. Mini Ulanat introduced the chief guest. Mr. Biju.M.G, Chairman CSI Cochin Chapter proposed vote of thanks.

Mr. Raghuandan dwelt at length on how the Internet and Communication Technologies can improve the road safety mechanism in our State. He said that sad part of the road safety is ICT itself. ICT distractions, in which texting stands on the top, is responsible for more than 50% of road traffic accidents. He also touched upon the issues like power scarcity and emphasized the point that energy security and power solutions are also an intergral part of this echo system. The talk gave an overview of 79 GHz project is an international automotive 79 GHz frequency harmonisation initiative and worldwide operating vehicular radar frequency standardisation platform.

The session was very informative and the participants were interacting with chief guest at length.



School Kit Distribution to Economically Backward Children

Date: 29th May 2013

Venue: Rajagiri School of Engg & Technology

On 29th May 2013, IEEE Kochi Subsection, in association with Rajagiri School of Engg & Technology distributed school kits for economically backward school children . The IEEE volunteers interacted with the children. A motivational speech was delivered by the IEEE Kochi Subsection Chair, Dr.Suresh Nair.

Session on "How to Optimize Social Media Profiles"

Date: 20th June 2013

Venue: Grey Technolabs, Kochi

Speaker: Mr. Vijay S Paul, Izecreative and Mr.Ajin Baby, Veeble Softtech

A session on “How to Optimize Social Media Profiles” was organized for the IEEE students undergoing Internship at Grey Technolabs. The session was handled by Mr.Vijay S Paul. The session was followed by an interactive session by Mr.Ajin Baby, IEEE Kerala GOLD Secretary.



Session on "Vedic Mathematics"

Date: 27th June 2013

Venue: CSI Hall, Kaloor, Kochi

Speaker: Mr. Ajay Mohan, Richard E Merwin Scholarship Winner

Vedic mathematics a branch of Mathematics which teaches pattern-observation and faster calculations. It is based on 16 Sanskrit Sutras (aphorisms or word-formulae) using which numerical calculations can be done faster than the conventional methods that are taught in schools. These Sutras are like patterns. After learning these Sutras, one can see one or more patterns in a given calculation and use the appropriate Sutra(s) to get the solution quickly. Mr.Ajay Mohan explained and demonstrated the application of the different sutras.



Session on " IEEE Membership Benefits "

Date: 11th July 2013

Venue: Sahradaya College of Engg & Technology, Kodakara, Thrissur

Speaker: Mr. Shahim Baker, Secretary-IEEE Kochi Subsection



The program was conducted in two sessions. The first session was inauguration of IEEE website & second session was about IEEE awareness and about the benefits in becoming an IEEE member. IEEE SCET SB inaugurated the new website on June 11th 2013. The event started by 10 am. The Code OF Ethics was delivered by Ms. Keerthi Iyer , followed by the welcome speech which was delivered by Mr. Girish Menon and followed by Director of SCET, Mr. K T Joseph addressed the presidential address and followed by Mr. Shahim Baker officially declared the IEEE website as inaugurated. The second session started at 10.30 and was about the IEEE awareness session. Benefits of becoming an IEEE member was also included. The session was also related to some robotics and about the project selection of students. The session also include the videos of some robotics. The students had a really good session with Mr. Shahim Baker. The session last for 2 hour. During the session, the speaker introduced the students to the Project EQUIP, which is an initiative aimed at enhancing the quality of technical education in Kerala. He explained how the SB can contribute towards this initiative by creating lesson plans that can help themselves and other IEEE student members.

Session on " Effective Presentations at the end of PowerPoint Era "

Date: 17th July 2013

Venue: CSI Hall, Kaloor, Kochi

Speaker: Dr. Jijo Paul, Asst Professor, Maharajas College

PowerPoint presentations make one of most widely used medium of communication in the present world. However, the conventions are changing in this scenario and people are moving away from template dominated style of presentations. Dr. Jijo introduced a few design concepts and technical facts one has to consider when making a presentation. He explained different fonts, styles, color schemes , slide formats etc to be considered to make Killer presentations. He also explained how the killer presentations are to be delivered, how to set the timing etc.



Session on " How to SBs can EQUIP themselves to help the students get the best out of IEEE Membership "

Date: 13th August 2013

Venue: Jyothi Engineering College, Cheruturuthi, Thrissur

Speaker: Mr. Shahim Baker, Secretary-IEEE Kochi Subsection

On 13th August 2013, an IEEE membership benefits awareness session was conducted at Jyothi Engineering college in association with 2013 SB activity inauguration. During the session, the speaker introduced the students to the Project EQUIP, which is an initiative aimed at enhancing the quality of technical education in Kerala. He explained how the SB can contribute towards this initiative by creating lesson plans that can help themselves and other IEEE student members.

IEEE Kochi Subsection Office Inauguration & IEEE Day Celebrations

Date: 1st October 2013

Venue: IEEE Kochi Subsection Office, AISAT Campus, Kalamasserry

IEEE Kochi Subsection's office was opened at AISAT Campus, Kalamasserry and was inaugurated on the IEEE Day- 1st October 2013, by Dr.Unnikrishnan, Founder Chair of IEEE Kochi Subsection.

The events of the day started with the IEEE Code of Ethics, read out by Dr.Rajesh Maliekal who is the Educational Activities Chair of IEEE Kochi Subsection and the Principal of Ilahia School of Science & Technology. Shahim Baker, the Secretary of IEEE Kochi Subsection welcomed the gathering. Dr.Suresh Nair presided over the meeting. Professional and student members of IEEE Kochi Subsection, representatives of the AISAT Management and faculty, representatives from IEEE Kerala section were present during the occasion. In the presidential address Dr.Suresh Nair mentioned that it's a dream come true for the IEEE Kochi Subsection. He thanked the AISAT management for providing a space and facilities for the office. The IEEE Day activities were inaugurated by Rev.Dr.Clement Valluvasserry, Manager AISAT. Dr. A. Unnikrsihnan, Associate Director NPOL & Founder Chair of IEEE Kochi Subsection, gave the IEEE Day address. "Leveraging Technology for a Better Tomorrow", the theme of the year's IEEE day was the topic of his talk. Dr.K.E. George, Principal-AISAT and Mr.Sabarinath G, Secretary IEEE Kerala Section gave felicitations. During the event, the the Best Subsection Volunteer award for 2012 was given to Ms.Mini Ulanatt.

Mr.Paul Ansel V, Vice Student Activities Chair for IEEE Kochi Hub announced the details of "Best Innovator Competition" planned by IEEE Kochi Subsection.

Signing & handing over of the Lease deed for the office space was done during the event by the Manager AISAT and Chair of IEEE Kochi Subsection. After this , the office was officially inaugurated by Dr. Unnikrishnan.

The Vote of Thanks was proposed by Ms.Mini Ulanat, Student Activities Chair of IEEE Kerala Section. The event ended with a networking High Tea.



Talk on " Leveraging Technology for Humanity"

Date: 1st October 2013

Venue: Govt.Engineering College, Thrissur

Speaker: Mr. Shahim Baker, Secretary-IEEE Kochi Subsection/ Membership Development Chair, IEEE Kerala Section

As part of the IEEE Day celebrations, Govt.College of Engineering Thrissur, in association with IEEE Kochi Subsection conducted a talk on “Leveraging Technologies for Humanity”. The session was handled by Shahim Baker, Director of Grey Technolabs, and Secretary of IEEE Kochi Subsection. He mentioned that just by innovating and inventing new technologies no nation can grow. The socio-economic growth is catalysed only when the technologies are put in effective use. He pointed out that as a professional organization aimed at the Advancement of Technology for Humanity, IEEE can give a lot of contributions in this regard. The students have to volunteer for this. He demonstrated methods by which students can make efficient use of technology for their own benefits as well as the benefit of others.

“VIDYADAAN” :Educational Outreach Program

Date: 2nd October 2013

Venue: KNM Memorial MES Orphanage, Edathala, Kochi & Prathyasha Bhavan Orphanage, Palluruthi, Kochi

IEEE Kochi Subsection has decided to undertake an Educational Outreach Program for the children of the underserved communities as part of its Humanitarian activities. The project was named as “Vidya Daan”, which means imparting knowledge. IEEE Kochi Subsection started such activities in 2012 itself, by providing training sessions at Pratyasha Bhavan Orphanage, Palluruty, Kochi. In 2013, as part of the Gandhi Jayanthi activities and IEEE Day Celebrations the volunteers of Kochi Subsection organized a Science Workshop for the inmates of KNM Memorial MES Orphanage. The workshop was conducted in the form of the TISP workshops. The students were guided to construct Windmills using waste materials. A wide variety of windmill designs came up from the students imagination. The students requested IEEE to conduct more such workshops in the future too.



The same day afternoon, IEEE Kochi Subsection volunteers visited the Pratyasha Bhavan Orphanage at Palluruty and interacted with the inmates.

Talk on " Advances in RF & Wireless "

Date: 5th Sep 2013

Venue: Adisankara Institute of Science & Technology, Kalady

Speaker: Dr. Suresh Nair, Chair-IEEE Kochi Subsection/ CTO, NeST Group

On 5th September 2013 Dr. Suresh Nair, Chair, IEEE Kochi Subsection delivered a talk on Advances in RF & Wireless Technologies. The program was organized by Adisankara Institute of Science & Technology and was technically sponsored by IEEE Kochi Subsection. Dr.Suresh talked on the latest trends in RF technology, and touched upon various applications and presented case studies.



Talk on " Internet Of Things "

Date: 11th October 2013

Venue: KMEA Engineering College, Edathala

Speaker: Shahim Baker, Director, Grey Technolabs

As part of the I-Week activities of KMEA Engineering college organized a lecture on "Internet of Things" with the technical sponsorship from IEEE Kochi Subsection. Shahim Baker, Secretary IEEE Kochi Subsection handled the topic. He explained the evolution of internet of things, its application areas and examples of IoT applications. He mentioned that there are several companies which already started commercial production of products enhanced for Internet of things. He also mentioned about the standards development activities undertaken by IEEE's Internet of Things working groups.

Session on " REST architecture style in era of Mobile Devices Era "

Date: 17th October 2013

Venue: CSI Hall, Kaloor, Kochi

Speaker: Mr. Antony Alappatt

REST (REpresentational State Transfer) is a simple stateless architecture that generally runs over HTTP. REST is often used in mobile applications, social networking Web sites, mashup tools and automated business processes. The REST style emphasizes that interactions between clients and services is enhanced by having a limited number of operations. Flexibility is provided by assigning resources with their own unique universal resource indicators (URIs). REST is an "architectural style" that basically exploits the existing technology and protocols of the Web, including HTTP (Hypertext Transfer Protocol) and XML. REST is simpler to use than the well-known SOAP (Simple Object Access Protocol) approach. The talk addressed at a very conceptual level REST architecture and its salient points.

Webinar on " Strategies for using IEEE Xplore Digital Library "

Date: 22nd November 2013

Venue: Albertian Institute of Science & Technology, Kochi

Speaker: Mr. Dhanu Pattanashetti

IEEE Client Services/University Partnership Program Manager for India, Mr. Dhanu Pattanashetty webcasted a training programme on for the IEEE Professional members of Albertian Institute of Science & Technology. Mr. Dhanu explained how to get the most out of the IEEE Xplore digital library. He explained various tools & search techniques available within Xplore .

Lecture on " Cyber Security "

Date: 26th November 2013

Venue: Albertian Institute of Science & Technology, Kochi

Speaker: Prof. Harjinder Singh Lallie

"Cyber Crimes are not just about encryptions or algorithms, but is more about public relations", Mr. Harjinder Singh Lallie very well emphasized the fact. He was talking on Cyber Security in a session conducted at AISAT on 26-11-2013 . The program was organized by IEEE Kochi Subsection, in association with IEEE CS, Kerala Section. Mr. Harjinder Singh Lallie has a meritorious service as a Senior Teaching Fellow at University of Warwick, UK. AISAT Principal Prof. Dr. K E George welcomed the gathering. In his talk Mr. H S Lallie gave awareness about the present day cyber crimes, the different viruses used for these crimes and how to manage the disasters caused by them. He also explained the various security measures to be taken against cyber crimes.



Lecture on " Need for a Secure Coastal Line "

Date: 27th November 2013

Venue: Rajagiri School of Science & Technology

Speaker: Vice Admiral (Retd) B.Kannan

On 27th November 2013, IEEE Kochi Subsection organized a Lecture by Vice Admiral (Retd) B.Kannan at Rajagiri School of Science & Technology. The topic of the lecture was "Need for a Secure Coastal Line". Shri. Kannan explained various aspects related to coastal security. He briefed about various international laws related to coastal boundaries, and the need for monitoring and securing the coastal lines. He explained various technologies available for monitoring the sea boundaries and the challenges associated with them. He emphasized the importance of the citizen's involvement in the national security



Session on Mind-To Market "

Date: 30th November 2013

Venue: Albertian Institute of Science & Technology, Kochi

Speaker: Dr.Suresh Nair, CTO,NeST Group

The new trend by young engineering professional is to go for start-ups and entrepreneurship. Even though this is a good trend, only a few are becoming successful in reaching the final goal of commercialization. Having an idea and even converting this idea into a prototype covers only 20% of the whole job. The talk discussed in details, the various steps involved to convert an idea to a commercial product. The session also show cased studies of a successful idea as well as unsuccessful idea. Various funding sources were discussed.



Webinar on " Strategies for using IEEE Xplore Digital Library "

Date: 3rd December 2013

Venue: Rajagiri School of Science & Technology

Speaker: Mr.Dhanu Pattanashetti

IEEE Client Services/University Partnership Program Manager for India, Mr.Dhanu Pattanashetty webcasted a training programme on for the IEEE Professional members of **Rajagiri School of Science & Technology**. Mr. Dhanu explained how to get the most out of the IEEE Xplore digital library. He explained various tools & search techniques available within Xplore .

Session on " Content Management Systems @User Finger Tips"

Date: 5th December 2013

Venue: CSI Hall, Kaloor, Kochi

Speaker: Mr.Anoop Jose

Content Management Systems (CMS) enables an organization to seamlessly create, edit, review and publish electronic documents. Such systems of content management provide procedures to manage workflow in a collaborative environment. The session covered the basics of Web Technology as well as the basics of Content Management Systems

and the methods of implementing CMS in Linux and Windows-based environments.



DVP on " The Emerging Internet of Things: Concepts, Enabling Technologies and Applications"

Date: 18th December 2013

Venue: Model Engineering College, Thrikkakkara

Speaker: Dr.Xun Luo

IEEE Kochi Subsection in Association with IEEE CS Chapter, Kerala Section arranged a Lecture on " The Emerging Internet of Things: Concepts, Enabling Technologies and Applications" by IEEE CS Distinguished Visitor Dr.Xun Luo . The venue was Model Engineering College, Thrikkakkara, Cochin. He explained in depth, various aspects related to Internet of Things. He briefed various technologies standards and the upcoming applications of Internet of Things.



Total Number of Events: 30

Kochi Subsection Online Presence:

- Subsection website : www.kochi.ieeeekerala.org
- Social Media

- Facebook Page: www.facebook.com/ieeekochisubsection
- Facebook Group: www.facebook.com/groups/ieeekochi
- Kochi Hub(Student Activities) Facebook Group: www.facebook.com/groups/ieeekochihub