Dear IEEE members,

It gives me great pleasure to see that the website of IEEE Pune Section is getting revamped and that we are also getting ready with our Newsletter. These activities add dynamics and visibility to an organisation and makes it more vibrant.

IEEE Pune Section has always been bubbling with activity. Last year we had great events including many notable conferences, thanks to our volunteers.

Our WIE group has been very active, organising WIE International Summit during September 2016 with the theme “Woman-A Born Leader”. Again in December, our WIE volunteers teamed up with Bangladesh WIE team to bring out the best in both during WIECON conference.

Our Smart City team was invited to present a tutorial at the International Smart City Conference at Trento, Italy. More than 90 International audience coming from all parts of the globe listened keenly to IEEE Pune Section’s contributions to the making of Smart Pune.

As usual, the Computer, Communication and PES/IAS Societies were active in organising Conferences, Seminars and Expert lectures on current topics such as IOT, DOS Attacks, Broadband Access, Robots, Microwaves, Energy Storage, Distributed Power generation to name a few. Visit to Industrial units, Project Competitions and Blood Donation Camps also formed part of our Society activities.

Our Student volunteers came out with stunning programs including R-10 Student Congress (nearly 200 participants) and Technology Dissemination program (almost 350 participants) this year.

The newly formed Education Society and YP group did not fall behind. They conducted some innovative events to stimulate the interest of young generations.

In all, it was a very satisfying year. I look forward for an equally exciting 2017 with rocking events. With best wishes to all IEEE members of Pune Section

Prof GS Mani
Chair, IEEE Pune Section
IEEE Women In Engineering (WIE) International Summit

IEEE Women In Engineering (WIE) International Summit, Pune 2016, 23 - 24, September 2016, was organized in association with IEEE Women in Engineering global office and IEEE WIE Affinity Group Pune Section. The Summit sessions were organized under various tracks like Inspiration, Innovation and Entrepreneurship, Executive leadership, Empowerment, Smart City-Smart Women a special track.

Title /Inspire level sponsor was CISCO. Smart City-Smart Women track was especially appreciated and sponsored by Pune Smart Pune Municipal Corporation (PMC) Pune, Technology partner was Websvento, Woman at work and Your story were our media partners. Community support received by Pune Open Coffee Club, Google Women Techmaker’s and Region 10 Women in engineering group is commendable.

<table>
<thead>
<tr>
<th>Summit Audience</th>
<th>Registered Delegates</th>
<th>Committee Members</th>
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A workshop on ‘Computing with Fun’ was conducted by the Education Society of IEEE Pune Section on 21, November, 2016 at Agastya Science Centre, Bengaluru. About 30 students of Standard VI and VII, Modern Public School, Bengaluru took part in first session. Major theme of the workshop was on cultivating curiosity in children while teaching.

The workshop was conducted in two Sessions:

a) Demonstration workshop on ‘Computing with Fun’

b) Workshop cum Discussion on ‘Cultivating Curiosity in Children through fun and games’
Workshop on “From Shivneri to Silicon Valley”

A workshop on Computing with Fun” was conducted on 29 November, 2016 for Students of Std IX of Cygnet Public School & Jr. College, Hadapsar, Pune.

The workshop was based on a theme named “From Shivneri to Silicon Valley” and involved games, stories and fun activities; Students learnt about measurement of length/areas of regular and irregular figures through fun games and Google Maps.

IEEE (WIECON-ECE 2016)

The 2016 IEEE International Women in Engineering (WIE) Conference on Electrical and Computer Engineering (WIECON-ECE 2016) is organized for bringing together individuals conducting research and professional activities in the area of ECE to share and present their latest innovation and findings. The conference will be held in All India Shivaji Memorial Society’s Institute of Information Technology, (www.aissmsioit.org), Pune, Maharashtra, India during December 19-21, 2016. The conference is jointly organized by IEEE Pune Section and IEEE Bangladesh Section along with WIE Affinity Group of IEEE Pune Section and WIE Affinity Group of IEEE Bangladesh Section. The theme of the conference is “Innovative research to build and lead the smart world”. IEEE WIECON-ECE 2015 was organized by IEEE Bangladesh Section and its WIE Affinity Group. The conference received overwhelming response from 22 countries (390 valid submissions) and all presented papers are now available in IEEE Xplore Digital Library. There were 6 world-class keynote talks, four invited talks, one industrial panel, 15 parallel oral sessions, 2 poster sessions, two special sessions, two tutorials, one workshop, one WIE meeting, and a pre-conference student competition. Presidents of two IEEE Societies, President Elect of one IEEE Society, Chair of IEEE WIE, IEEE R10 Director, IEEE R8 Director Elect, two coordinators of IEEE R10, different section chairs of R10, 6 IEEE Fellows were present in the conference. With a view to encourage more participation of women in the conference, each paper to be submitted should have at least one female author. IEEE WIECON-ECE 2016 will feature world-class keynote competitions, live demonstration, project show, which will be offered by researchers and professionals working in academia, industry and research organizations.

Honorary Chair
Takako Hashimoto, Ph.D., IEEE WIE Chair '15-16, CUC, Japan
Nita Patel, IEEE WIE Chair '13-14, L3 Comm., USA
Ramalatha Marimuthu, Ph.D., IEEE WIE Chair '11-12, KCT, India

Honorary General Chairs
Ljiljana Trajkovic, Ph.D., Fellow IEEE, SFU, Canada
P. K. Sinha, Ph.D., Fellow IEEE, VC, IIT-NR, India

General Chairs
Celina Shahnaz, Ph.D., IEEE R10 WIEC '16, BUET, Bangladesh
Rajesh Ingle, Ph.D., IEEE R10 SAC '16, PICT, India

Technical Program Committee
Chairs
S. A. Fattah, Ph.D., BD Section Chair '15-16, BUET, Bangladesh
Rajeshree Jain, Ph.D., Pune WIE AG Chair 2016, SICSR, India

Organizing Chair
Pradeep B. Mane, Ph.D., IOIT, India
Surekha Deshmukh, Ph.D., PVG’s COET,

ICEI-2017 is organized by PICT College and technically supported by IEEE Pune Section & IEEE Computer Society, Pune Chapter on 03-05 February 2017. This conference will be addressed by National & International speakers & will consist of very high quality technical sessions and tutorials related and not limited to Big Data & Data Mining, Cloud & Smart Computing, Embedded Systems, Emerging trends in engineering, High Performance Computing, Information & Network Security, Internet of Everything, Signal Processing, Wireless Communication.

Workshop on “Use of Circuit Simulator in teaching Basic Electrical and Electronics courses"

Department of Engineering & Applied Sciences of Vishwakarma institute of Information Technology Pune has organized a two days state level workshop on “Use of Circuit Simulator in Teaching Basic Electrical and Electronic Courses” for teaching faculty members from various engineering institutes across the state. This workshop was conducted on 27th and 28th January 2017 in the PG laboratory of the Computer department.

This workshop was conducted by Prof. M. B. Patil from Indian Institute of Technology Bombay. The simulator, SEQUEL, was used as a teaching aid for this workshop. SEQUEL is a freely available general-purpose circuit simulation package developed at IIT Bombay.

Workshop on “Digital Transaction”

After demonetization announced by our Prime Minister on 08 November, 2016, cash transactions are declining. People are resorting to digital transactions, but this is putting certain sections of society at a disadvantage. In particular, senior citizens and housewives who have been used to cash dealings most of the time in their life are finding it difficult to cope with the changing situation. In order to help this group, a Demo-Workshop was organized on 29th January 2017 to show how smart mobile phones can be used for financial transactions in day to day life. The Demonstration started with downloading of the Mobile App BHIM (Bharat Interface for Money) developed by National Payments Corporation of India (NPCI), based on the Unified Payment Interface (UPI).

The demonstration was conducted by Mr. Harshal Girish Narkhade and Mr. Shreyans Sunil Gandhi, IEEE student members from MIT College of Engineering. They were helped by Mr.Rahul of MyFiscus.com.

Workshop—Digital Transaction

Workshop—Use of Circuit Simulator
First International Conference on Data Management, Analytics and Innovation (ICDMAI – 2017)

Padmabhushan Dr. Vijay Bhatkar, Dr. P. K. Sinha, Vice Chancellor and Director, Dr. S. P. Mukharjee, International Institute of Information Technology and Dr. Neha Sharma, Director Zeal BACAR, were the General Chairs of the conference.

IEEE R-10 Annual General Meeting

IEEE R-10 Annual General Meeting was held at Makuhari Messe International Conference Hall, Chibu Prefecture, Japan on 4-5th March 2017. On invitation from R-10 Director, following persons attended the meeting

GS Mani, Chair, IEEE Pune Section
Rajesh Ingle, Member, R-10

The meeting was held from 0800 hrs to 1735 Hrs on 4th March 2017 and from 0830 Hrs to 1300 Hrs on 5th March 2017. On both days Kukjin Chun, R-10 Director chaired various sessions. There were about 130 delegates for the meeting, which included Section Chairs, R-10 Execom members, Former R-10 Directors, and a few distinguished guests. In his opening remarks, Kukjin Chun, R-10 Director gave brief statistics of the growth of the Region. As on March, 1, 2017, IEEE has a global membership of 4, 23,566, out of which R-10 constituted 1, 25,060 (29.5%). He also briefly touched upon the issues related to membership Retention, conference Quality and the IEEE core values and Ethics.

Following are some of the highlights of the address from some of the distinguished guests:

Karen Bartleson, IEEE President and CEO emphasised the need for openness, international collaboration, and free flow of ideas and talented individuals across the Globe.

Mary Ellan Randall, MGA Vice President spoke of the retention problem of IEEE.

Margaretha Eriksson, R-8 Director mentioned that about 135 countries are part of Region-8. She talked about the issues due to the General Data Protection Regulation (GDPR) which comes into effect from 25 May 2018 in the European Union.

Bernard Sander, R-4 Director gave details of activities in his Region consisting of about 20,000 members in Chicago, Minneapolis and Detroit areas.

Vincenzo Piuri, IEEE President Elect 2018 and Jacek M Zurada, IEEE President Elect 2018 gave their views about the future expansion of IEEE. During the Q&A Session, both of them promised to pay special attention to R-10 region in view of its large membership and value addition to the organization.
**Topics Covered:**

1. Introduction to MATLAB / Simulink
2. Introduction to Scripy / .m file
3. Hands-On Training
   - Diode Bridge Rectifier
   - Single Phase Inverter and its FFT
   - Simulation of 3ph 3-Level Inverter
   - Buck-Boost Converter
   - Closed loop speed control of 3-ph Induction Motor using PI loop

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**Three days Profession Training Workshop**

Three days Profession Training Workshop was organized by Young Professional Affinity Group at PVG’s College of Engineering and Technology, Pune on **09-11 March 2017**.

Total 35 engineers have given training on the use of Simulink and various block sets of MATLAB as a professional software. Few of them were the start-up companies.

**The resource person** Mr. Hrishikesh Mehta has wide experience in automation and control. He conducted theory as well as practical sessions. The practical sessions were well appreciated by the delegates as it consisted of software and hardware coordination and control. The delegates were happy with the content of course covering basic scripts, functions, block-sets as well as GUI etc.

**Details of Attendees**

- Total = 35
- IEEE Members: 12
- Students (UG, PG, PhD): 15
- Industry, Consultants: 08

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**MATLAB for Electrical Engineers**
A workshop on “Computing with Fun” was conducted on 13th and 15th April, 2017 at Sungrace School, Pune. It was a part of the series of workshops under “Cultivating Creativity and Curiosity in Children (Quadra –C)” program conceptualized by the Education Society of IEEE Pune Section. Major objective of this workshop was to introduce concepts related to Algorithmic thinking, Reasoning, and Decision making in relation to Computational Science. The students had no earlier exposure to computers, except in the use of Internet.

Emphasis during the workshop was on evolving basic logic necessary for development of Computer Participants were also introduced to concepts of ‘Looping’ and ‘Decision Trees’ and how they are useful in writing efficient programming.

The workshop was conducted in coordination with Rotary Club of Pune Horizon and was attended by 37 children of Std X. Certificates were distributed to all participating children by Shri Vijai Pillai, Director, Sungrace School. All participants were immensely happy with the workshop.

**International Workshop on Internet of Things and TV White Spaces (WIOT’ 2017)**

- **Category of the Activity**: Workshop, DL
- **Day and Date**: 12 January 2017
- **Venue**: Hotel President
- **Organizer**: MIT Pune
- **IEEE Co-sponsor**: IEEE COMSOC and CS Pune Chapter, IEEE Pune Section
- **Resource Person**: Dr. Rath Vannithamby INTEL, USA; Dr. Bilab Sikdar, NUS,
- **Details of Attendees**: 135

**COMSOC Meeting**

- **Category of the Activity**: Meeting for Project Competition
- **Day and Date**: 20 February 2017
- **Venue**: MIT Pune
- **Organizer**: IEEE COMSOC Pune Chapter
- **IEEE Co-sponsor**: IEEE COMSOC and CS Pune
- **Resource Person**: Dr. Kalyani Kulkarni,
- **Details of Attendees**: 3

**Distinguished Lecture on Internet of Everything**

- **Category of the Activity**: DL
- **Day and Date**: 13 January 2017
- **Venue**: Hotel President
- **Organizer**: IEEE COMSOC Pune Chapter
- **IEEE Co-sponsor**: IEEE COMSOC Pune Chapter
- **Resource Person**: Dr. Rath Vannithamby INTEL,
- **Details of Attendees**: 135

**State Level Project Exhibition for UG/PG Students on Power system, Renewable Energy and Energy Audit.**

- **Category of the Activity**: DL
- **Day and Date**: 25 March 2017
- **Venue**: Electrical Department PES Modern College of Engineering, Pune
- **Organizer**: Prof. Dr. Mrs. N.R. Kulkarni, Head Electrical Department, PES MCOE, Pune
- **IEEE Co-sponsor**: PES/IAS Chapter IEEE Pune Section
- **Resource Person**: Dr.D.J.Doke, Chair, PES/IAS Chapter of Pune Section, Mrs. Medha Deshpande, Director and Business unit Head AMC Yardi, Software Pvt Limited, Mr. N. S. Parandkar Emeritus Professor, Mr. Ganesh Shitole, Deputy Manager, MatherPlatt AkurdI, Pune, Mr. Hemant Rhatwal, Assistant Manager, Thyssenkrupp Pimpre, Pune, Mr. Heramb Mayadeo, Electrical Engineer Black & Veatch, Pune, Mr. Devendra Vanarse, Project Manager, Cognizant, Pune
- **Details of Attendees**: 47 project groups at UG and PG level
A campaign for IEEE Membership Awareness was conducted by IEEE Pune Section on 28th December 2016 at MIT College of Engineering, Pune. More than 85 Students attended which included 8 IEEE members. Dr. Virendra Shete, Head E&TC Department introduced the guests and assured that many staff and students from the college are keen to be part of IEEE. Active student members of IEEE MITCOE were felicitated on the occasion.

Resource- Persons/speakers : Prof GS Mani; Prof Mandar Khurjekar
Topics covered in short : ‘Why join IEEE?’
Details of Attendees : 85
IEEE Members : 8
Students (UG, PG, PhD) : 77

A promotional lecture about IEEE was organized by IEEE Pune Section at Vishwakarma Institute of Information Technology, Pune on 20th January 2017. More than 100 Students attended which included 5 IEEE members. Dr. Yogesh Dandavate, Head E&TC Department introduced the guests and assured that many staff and students from the college are keen to be part of IEEE.

Resource- Persons/speakers : Prof GS Mani; Prof Mandar Khurjekar
Topics covered in short : ‘Why join IEEE?’
Details of Attendees : 100
IEEE Members : 5
Students (UG, PG, PhD) : 95

Dr. Neha Sharma, Newsletter Editor
nvsharma@rediffmail.com
9923602490