

IEEE  
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**S** **Y** **W** **L**  
CONGRESS 2018  
*Bali*

Student • Young Professionals • Women in Engineering • Life Member

*Collaborative Innovation for Society Development*

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**NEWSLETTER**  
**SPECIAL EDITION**



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# 1. STUDENT ACTIVITIES

## LATEX Workshop

Abdul Wadood, General Secretary

IEEE PIEAS Student Branch, IEEE Islamabad Section

Organizing different tectonic technical workshops is the premier identity of IEEE PIEAS Student Branch. Over many years IEEE PIEAS SB have organized many significant workshops on the softwares that are considered to be the substantial backbone of engineering. Workshops on MATLAB, LaTeX, AutoCAD, Solid Edge and many other softwares were robustly formulated. This year Latex Workshop was held with the



main aim of apprising the students with the software. LaTeX is basically a document preparation system used for the communication and publication of scientific documents. This workshop served as a learning tool and astronomically enhanced the professional development of the participants. It provided opportunity to IEEE members to learn a new software for their reports. Students specially of final year found it very applicative.

## IIUI Student Branch, Islamabad Section

Ahmad Mujtaba, General Secretary

### Celebration of IEEE Day

IEEE International Islamic University branch organized a celebration ceremony for IEEE Day'18. The ceremony consisted of an IEEE Introductory Seminar, a cake cutting ceremony, and tech talks. The participants were briefed about IEEE scope, its membership, benefits, IEEE societies, and awards.

### Seminar on “United Nations & Sustainable Development Goals for Engineer”

IEEE IIUI Student Branch organized a seminar for faculty members and especially for the students who are about to graduate. Prof. Dr. Shahbaz Khan an official member of United Nations and Head of Department NUST, along with his team delivered this seminar.

The aim of this seminar is to aware young mind with the sustainable development goals and to develop solutions for the critical problems with the professionals. The seminar highlights the nationwide problems of Pakistan and the human development of terrorism affected areas such as AJK, FATA etc.

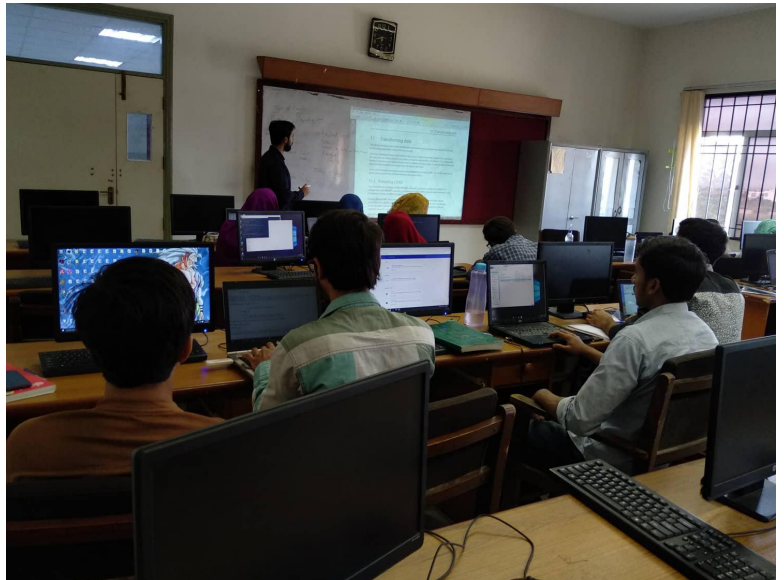


## Business Intelligence with Qlik Sense

Asad Ullah Khalid, Chair

**IEEE UoK SB, IEEE Karachi Section**

IEEE UoK SB pulled off a successful, one-month long course on a much ignored but an important topic in Pakistan, 'Business Intelligence'! Mr. Sehan Ahmed mentored 30 participants on BI for the first time ever in UoK. The session started with an introductory seminar which was open for all, and then it continued with the history and basics of Business Intelligence. The students were introduced to the five core components that make up BI, they were briefed why Business Intelligence is important to them, who uses it and why. Qlik Sense;



one of the best BI tools in the market, was used all through the course as the basic tool to implement BI, data manipulation and individual projects were allotted to all the participants. One of the students were also awarded first prize who came up with the best Business Intelligence project among all.

## Get Going Of Industry Application Society In North South University

Farhat Tasnim Progga, Secretary,

**IEEE NSU SB IAS Chapter, IEEE Bangladesh Section**

In our SB, Industry Application Society is a new bee. Though it's the beginning of this chapter but we have done two significant events by the month August & September which were held to fulfill both the IEEE mission vision and student benefits.

For this, we organized a seminar talk on Securing Critical Infrastructure where the speaker was Dr. Mohammad M R Chowdhury who is currently working as a Senior Engineer in Oslo. A brief talk was given by the honorable speaker regarding Critical Infrastructure which refers to systems, facilities, technologies, networks.

After that event we had arranged a MS Alumni Reunion of our Dept. Of Electrical & Computer Engineering, NSU collaborating with the Department on September for building network between the Graduate and Undergraduate students so that they can discuss about their career opportunities which has made the event lively.



## EPICS in IEEE

Haris Ali, Vice Chairperson

**IEEE Student Branch UET Taxila, IEEE Islamabad Section**

EPICS in IEEE empowers students to apply technical knowledge to implement solutions for unique community challenges. EPICS in IEEE not only assists communities in achieving their specific local community improvement goals but also encourages students to pursue engineering for community improvement as a career. IEEE Student Branch UET Taxila



arranged a practical demonstration on STEM (Science, Technology, Engineering, Mathematics) in which the pre-university students were demonstrated with scientific to get a better idea of the concept behind it.

## 7th National First Lego League (FLL) Championship

Izma Naveed, Vice chair  
**WIE, Islamabad Section**

Success does not come from one little thing, it is the accumulation of all the small steps that pave way to the final step of glorious victory. It is through sheer hard work, determination and dedication that leads us to the final moment.

The teams who participated in 7th National First Lego League (FLL) championship showed great prowess in robotics at a very young age. They displayed an astounding level of understanding of the field and showcased amazing skills. Such young minds have proved that boundaries exist only within our minds and nothing is impossible with sincere hard work and effort.



## Annual Engineering Project Exhibition '2018 (AEPEX'18) IEEE UCE&T Islamia University Bahawalpur

Mahnoor Baloch, Vice Chair  
**Society/ Student Branch Chapter, IEEE Lahore Section**

AEPEX is a Calendar/Signature event of IEEE UCET IUB held every year where students of all the engineering disciplines of UCET, show their four years learning experience through the projects. Some of the projects were ICT funded including Sign Recognition for Deaf and Dumb people using Android App, self-



transforming mobile robot, Multilingual System for Robotic Application, Railway Track Security through GSM, Fully automated Solar Grass Cutter, Electrical Energy Efficient Utilization of Commercial Buildings, Design of Smart Road-Lights and auto traffic signal controller with emergency override, Design and Implementation Monitoring of Intelligent Monitoring Systems for diverse application using plug and

play wireless sensor network node, Design of a focused beam relectarray antenna, Design of Intelligent Fire Monitoring system using WSN and Fuzzy Logics. Principal UCE&T Delegations from PTCL & WAPDA and Senior Faculty members viewed the projects. The event was attended by hundreds of people.

## Annual General Meeting 2018

Mohsin Sameer, Treasurer

### IEEE Student Branch UET Taxila, IEEE Islamabad Section

IEEE Student Branch UET Taxila arranged an annual general meeting for the year 2017-18. The event started off with the recitation from the verses of Quran Majeed, followed by the formal announcement of the Branch Officials for the year 2018-19. Afterwards, the cabinet took oath in the betterment of the society. The shields were distributed among the senior session as the token of appreciation for their volunteering services during their program duration. The meeting also included the oath taking ceremony of the heads and co-heads of the student branch.



## Orientation & Counselling Sessions

Muhammad Nauman Khan, Chairperson

### IEEE COMSATS WAH Student Branch, Islamabad

IEEE COMSATS Wah SB arranged two orientation and counselling seminars on 3rd September and 10th September 2018 to provide counselling to new comer students of Electrical Engineering Department. In these seminars, Counsellor IEEE COMSATS Wah SB Dr. Nadia Nawaz and Chairperson IEEE



COMSATS Wah SB Muhammad Nauman Khan informed the students about the department and university policies as well as the basic objectives of IEEE SB. Students were briefed about the basic vision of IEEE i.e to provide access to latest technological advancements in the world. Furthermore, the new comer students were informed about different scholarships for which they can apply after membership.

These sessions proved to be a successful event as students were highly inspired by the vision of IEEE and they showed keen interest in the membership drive followed by these sessions.

## IEEE Summer Internship Program 2018

Jawad Zaheer, Chairperson, IEEE RAS CUI

**IEEE COMSATS University Islamabad Student Branch, IEEE Islamabad Section**

Over a course of six weeks, IEEE RAS COMSATS University Islamabad successfully organized a Summer Internship Program. The internees were taught skills like Graphic Designing using Adobe Photoshop and Illustrator, the internees were also taught Web Development which included topics like Basic Html Styling and basic idea of responsive layouts.

In the beginning out of 104 applicants, only 47 were selected on the basis of an interview. To get the internship certificates internee must have eighty percent 80% attendance and performance in the tasks given during the span of 6 weeks.

At the end of six weeks only 27 internees were given certificates in a ceremony.



## IEEE PES PCB Workshop

Marriam Siddiqui, Vice Chair, Student Branch

**IEEE COMSATS Islamabad Student Branch, IEEE Islamabad Section**

IEEE PES conducted a PCB Designing workshop at basic level for beginners interested in learning about PCB design and fabrication. Mostly students from first semester participated in the workshop. Software was provided to all participants so they can come prepared for a hands-on experience. Students were guided all about basics of software. Next they were taught how to design a PCB layout. More information was provided about preparing the PCB hardware at last. Certificates were distributed among all participants.



## International Conference on Material Science and Semiconductor Devices 2018

Mohsina Sultana, Newsletter Editor

**IEEE Student Branch University of Dhaka, IEEE Bangladesh Section**

Dept. of Electrical and Electronic Engineering, University of Dhaka, along with IEEE Student Branch University of Dhaka and FAB Lab DU organized a two days international conference on Material Science and Semiconductor Devices from 7th to 8th September, 2018. . On the opening day, two keynote speakers and three invited speakers delivered talks on various aspects of material science and



semiconductor devices in three sessions, along with contributed sessions from authors. On the last day of the conference, two keynote speakers and three invited speakers delivered talks on various aspects of material science and semiconductor devices in three sessions, along with contributed sessions from authors. There was also a tutorial session on non-linear optics. Poster presentations were held and best oral presentation and best poster awards were handed out to deserving authors.

## Telenor Seminar

Muhammad Burhan, Chair CS Chapter

**IEEE PIEAS Student Branch, IEEE Islamabad Section**

Telenor (R&D) is bringing an opportunity to join students, entrepreneurs and technologists on single platform to bring ascent in Telecom industry. IEEE PIEAS CS benignly welcomed Telenor team at PIEAS to give some information about Telenor Hackathon Competition. The students were briefed about revolution in Telecom Industry and also about their flagship program. It was an hour-long seminar for the whole Computer Science and Electrical department to show their



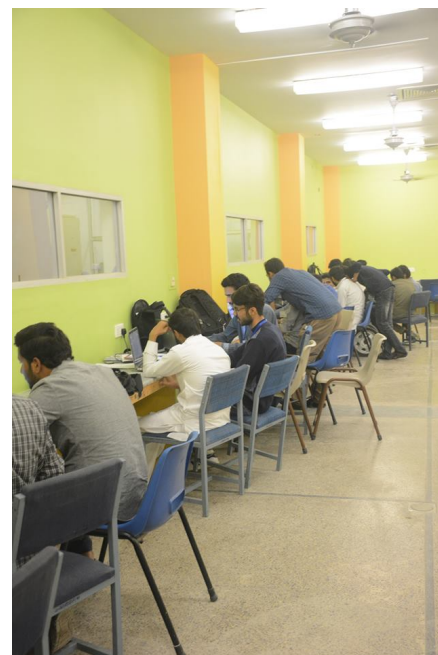
coding skills to the world. The main motive of IEEE PIEAS CS chapter behind this seminar was to breach-up the gap between academia and industry and to gear up students for post academic life.

## Programmer Of The Semester

Muhammad Ammar, Chairperson

**IEEE CS COMSATS Wah Chapter, Islamabad**

IEEE Computer Society COMSATS Wah organized Programmer Of The Semester Competition in collaboration with Computer Science Department COMSATS University Islamabad, Wah Campus on 4th October 2018. Basically it was a 3 hour programming competition which was aimed to hunt the talented students by encouraging their programming skills. In this competition, students were given a fixed set of real world problems and they were given a stipulated time to solve these problems. With their extraordinary talent, most of the teams were able to solve these problems within due time. Nearly 15 teams participated in this programming competition. On this occasion, HOD Computer Science Department encouraged the efforts of IEEE CS COMSATS Wah for organizing this competition.



## IEEE DAY at CUI

Muhammad Umair Abdullah, Director Liaison

**IEEE COMSATS University Islamabad, Islamabad Section**

IEEE DAY was celebrated on 2nd October 2018 at IEEE-CUI,SB with full zeal and zest focusing on its theme i.e. "Leveraging Technology for a Better Tomorrow". An astonishing event that was held to celebrate this day focuses on the motivation and coordination among IEEE community so that different set of minds join together to collaborate on ideas that leverage technology for a better tomorrow.

Hundreds of

volunteers participated to make this event successful.

During this event their were different

motivational sessions to develop an urge

among our members to work for the cause

of IEEE, ice breaking

ceremony, sessions on the benefits of joining IEEE and award ceremony takes place. At the end cake cutting ceremony takes place and we accomplish our cause of promoting IEEE.



## Workshop On VLSI Design

Ojas Balsotra, Vice Chair

**Chapter, Bombay Section**

We conducted this workshop on VLSI Design at MGMCET. It provided technical skill trainings in VLSI, industry exposure in VLSI and all-round career growth for students in VLSI. Main goals of workshop were Designing a VLSI



product, About VLSI, Better understanding of Timing analysis, Running LTSpice ( Software ) simulations by students and

testing circuit made by students itself, Fabrication process using Lambda rule, Design rules for scaling, designing universal gates in Microwind ( Software) . The intended audience are :- Students.

Students of Second year, Third Year, Final Year EXTC & BIOMEDICAL attended the lecture. The event also comprised of interactive question and answer session. The workshop session was designed to bring out the creativity and knowledge on VLSI.

## CODIGO-the ultimate programming challenge

Osama Naeem, General Secretary

**IEEE Student Branch, UET Taxila (STB60871), IEEE Islamabad Section**

IEEE Student Branch UET Taxila arranged CODIGO- an online 24-hours C++ programming competition, in which the students were allowed to compete from their comfort places. The problem statements were distributed and solutions were collected via online forum. The solutions

IEEE Student Branch UET Taxila presents

**<CODIGO/>**  
the ultimate C++ programming challenge

Last date to register: **June 9, 2018**  
Competition on: **June 12, 2018**

\* 24-hrs online competition  
\* Certificates for top three positions

Register and details here

In case of query, feel free to contact: Sarmad Noor 0304-4778611

were evaluated on the basis of working, optimization and approach used to solve the provided problem statements.

## IEEE AIUB Student Branch IEEE Bangladesh Section

Rafid Azad, Publications Coordinator

IEEE AIUB Student Branch, IEEE Bangladesh Section

### IEEE AIUB Student Branch organized a workshop on “IEEEmadC & Mobile Application Development”

On 26th September 2018, IEEE AIUB Student Branch in association with Computer Society AIUB Student Branch Chapter successfully organized a workshop titled IEEEmadC & Mobile Application Development. The workshop focused on the importance of android applications in this modern era and the skills and techniques required for developing them. Talks on the elevation of the use of android phones along with a rise of applications were discussed. Furthermore, the procedures and judging aspects of the mobile application development contest were looked into. Emphasis was put on the procedures for developing an android application. Students from different departments took part in the workshop. The event also comprised of interactive question and answer session.

### IEEE AIUB Student Branch organized a workshop titled “Dare to Lead”

On 26th July 2018, IEEE AIUB Student Branch in collaboration with IEEE IAS AIUB Student Branch Chapter and in association with Bangladesh Youth Leadership Center (BYLC) organized a workshop titled Dare to lead. The workshop focused on the essential leadership skills needed during student life to excel and have a better career in the future. Talks were provided on the importance of skills and the consequences of



lacking skills when working under a team. Further talks were also provided discussing the concept of a leader and leadership along with discussions on the importance of learning a role and importance of professional etiquette. Students from different departments attended the workshop. The event also comprised of interactive question and answer session.

## IEEE IUB Student Branch organized one the biggest tech extravaganzas of 2018 in Bangladesh

Rashid Ahmed Rifat, Chair

### IEEE IUB Student Branch, IEEE Bangladesh Section

Makers' Mania, one of the biggest tech events in Bangladesh was held on 22nd and 23rd September 2018, organized by IEEE IUB Student Branch in coordination with School of Engineering and Computer Sciences- Independent University, Bangladesh.

FAB LAB IUB sponsored the event which gave a platform to the students to compete amongst the tech enthusiasts and join in the biggest tech showdown of 2018. The event combined a series of various segments namely RC Mud Track Racing, LFR Competition, QuadCopter Racing, Battlebot, Project Showcase, Rubik's Cube and Programming Contest.

600 participants from schools, colleges and universities participated in Makers' Mania. The champions of each segment were awarded to inspire them more towards innovation. The collective work of IEEE IUB Student Branch, IEEE IAS IUB Student Branch Chapter, WIE Affinity Group, IEEE IUB Computer Society SB Chapter and the collaboration of Project BE gave the event shape and made it a success.



## IEEE Robotics and Automation Society Congress

Raunak Gupta, Branch Counselor,

### IEEE Student Branch Quantum School of Technology, Roorkee, UP Section

Mr. Suresh Yaram was the keynote speaker for the inaugural session. He delivered his keynote address on "How AI/ML is helping the Insurance Industry globally and significant use cases". He shared his industrial experience among the participants.

First participants presentation session was conducted after the inaugural session. The top three presentations during this session were "Multi-purpose Drone and local GPS using ML" by Mr. Devashish Patel and group from Ahmedabad University, Ahmedabad,

"Technology and Human Brain – A Deadly Combination" by Mr. Pranav Agarwal from Rajkiya Engineering College, Mainpuri and "Impact of Automation in Automobile Industry" by Mr. Sahil Kumar from Quantum School of Technology, Roorkee.



The second keynote address was delivered by Dr. Rahul Kala on “Mobile Robotics – From School Projects to Real life”. He addressed the various issues involved in the robotics such as trajectory planning, kinematics etc. during his address.

## World Blockchain Hackathon

Rizwan Nayeem, Head Documentation

**IEEE VCE Student Branch, IEEE Hyderabad Section**

Vaagdevi College Of Engineering Student Branch and IEEE Computer Society Chapter Hyderabad Section in collaboration with GeeksUp conducted “World Blockchain Hackathon” with a Theme “Building a Decentralised Application to solve Society & Community problems”. The aim of the event was to provide students a platform to realise solutions using Blockchain Technology.

There were about 1500+ participants pan India & overseas who were divided into 300+ teams each with 5 members. All the teams came up with 300+ problem statements & solutions which can be solved using Blockchain technology. This Hackathon helped the students to expand their horizon, brainstorm and unravel a solution for the community problems. For next few months WBH Top Groups will be working on their Solution under the mentorship of GeeksUp and other industry experts. Hackathon concluded with successful participation of 1500+ students across the globe to mark the excellence of collective knowledge can make bright minds work together.



## The Ultimate Innovator Hunt for IEEE SS12 Innovation challenge and Maker Fair 2018

Shaila Alam Urmi, Secretary

**IEEE WIE Student Branch Affinity Group, RUET, Bangladesh Section**

With the association of Dept. of ECE, IEEE RUET Student Branch hosted the contest “The Ultimate Innovator Hunt” on 13th July, 2018 with 60 participants. Prof. Dr. Md. Nazrul Islam Mondal sir, Prof. Dr. Ajay Krishno Sarkar sir and Ms. Tasnim Binte Shawkat madam were the honorable judges , they examined the projects and imparted suggestions for the better modifications of their projects. Prof. Dr. Md. Nazrul Islam Mondal sir took a session also (technical talk) on “FPGA Applications in Education”. Meanwhile Prof. Ramalatha Marimuthu, SS12 chair



delivered her valuable speech for the contestants through online. The name of the four selected teams were declared after this segment who were going to take part in the SS12 Innovation challenge and Maker Fair 2018’s “Maker Fair” track in Colombo, Sri Lanka on September, 2018.

The champion and first runner-up team were given 15k and 5k BDT respectively for further encouragement.

## Independence Day Photo and Video Competition

Shoaib Sabbir, Treasurer

**IEEE PES Chapter UET Taxila, IEEE Islamabad Section**

IEEE PES Chapter UET Taxila arranged a photo and short video competition on the occasion of Independence Day. The theme of the competition was "How are you contributing towards the betterment to Pakistan?" The aim of the event was to encourage and appreciate the public toward a good cause.



## Artificial Intelligence Day 2018 Celebration

Shreya Gosrani, Chairperson, IEEE WIE SAKEC

**IEEE Student Branch of Shah & Anchor Kutchhi Engineering College STB 61051, IEEE Bombay Section**

On 1st September 2018, IEEE SAKEC in association with Aegis School of Data Science celebrated Artificial Intelligence Day.

The session was an initiative to create awareness about Artificial Intelligence. 8 proficient speakers, with a genuine approach to present AI and its necessities were present. Dr. Abhijit Gangopadhyay, Dean, Aegis School of Data Science gave a keynote session on AI. The session proceeded with demystifying AI by Bhupesh Daheria, CEO, Aegis School of Data Science. The key highlight of the session was “LYNX”, a humanoid robot. A Job Recommender System was being illustrated as an example to showcase AI products. Introduction to NL Generator was given by Vivek Mishra & Dr. Soudip Roy Choudhary, Director and Chief Data Scientist. A detailed overview of Computer Vision was explained by Dr. Shamshuddin. The event ended with a vote of thanks conveyed by Dr. Vinit Kotak, Vice Chair, IEEE Bombay Section.



Event Coverage: [www.youtube.com/watch?v=NFa3LSACpTU](https://www.youtube.com/watch?v=NFa3LSACpTU)

## IEEE DAY 2018 + INSIGHT 18 + World's Teachers Day

Tahir Khan, Joint Secretary

**IEEE PIEAS Student Branch, IEEE Islamabad Section**

IEEE PIEAS student branch connects the engineers from all over the Pakistan on a single platform offering opportunities to pursue their interests and excel in their engineering careers. IEEE PIEAS Student Branch celebrated the IEEE Insight on 5th



October, 2018. IEEE Day Insight theme was “Celebrating the International IEEE and Teacher's day”. The aim of this Insight was to give a head-start to the freshmen students and provide them with a starting scaffold to bring forward their ideas and talents. Speakers and ambassadors from Islamabad Section honored the event with their presence and shared their precious insights to encourage the students. The event was a monumental success to say at the least by the end of which students were solicitous to become active member of society and work for better tomorrow.

## O'WEEK 2018

Yousma Yousaf, Head WIE Internal Affairs

## IEEE PIEAS Student Branch, IEEE Islamabad Section

It is a very senescent custom to warmly and jocosely welcome the freshmen batch to the respective university. This year like always, IEEE PIEAS Student Branch came forward with the advent of new way to welcome the freshmen by organizing seven day orientation crammed with technical events and fun activities. Such activities and events prepare and mold their minds for the preliminary of a new journey and to abet understanding to the new environment. Events that were held comprises of quizzes, scavenger hunt, minute to win and many other technical and non technical activities. IEEE PIEAS SB ensured that these memories of interaction between the freshmen and student branch comprises of everlasting beatitude and whenever they walk through our gates they leave learning something new.



## IEEE WIE Affinity Group UET Taxila Independence Day Essay Writing Competition

Zara Ahmad, General Secretary

**IEEE WIE Affinity Group, IEEE Islamabad Section**

IEEE WIE AG UET Taxila arranged an online essay writing competition. The main aim of the conduction of such competition was to test the writing skills as well as spreading a message of love, enthusiasm and zeal among the students and recognition of the sacrifice by the people of the country.



## Awareness Session on IEEE

Saeed Rehman, Member

IEEE student branch organized an awareness session for the new students to create awareness of the values and future benefits of IEEE in their respective domain of studies and how can they learn and polish their skills via this amazing platform. Waleed bin Nasir was the main speaker who entertained the audience with full determination. the session was a complete success as most of the students were official members by the end of the day.



## **Huge Success Of Computer Society Comsats Islamabad**

Sardar Danial Nasir, Vice-Chairperson  
**Computer Society, Islamabad Section**

The Computer Society chapter Comsats Islamabad was initiated in August 2018 and within only two months the chapter has reached 33 official members . The chapter's success is the result of perfection, hard work, learning from failure, and persistence .The key factor was the perfectly guided Recruitment Drive which paved the path for the nourishment of the chapter . The chapter has successfully able to



arrange regular events on weekly basis . In this span of time , the chapter has successfully arranged a IEEE MadC awareness session, IEEE Xtreme awareness session , Android Workshop , Orientation Ceremony and IEEE Day Celebrations . Due to it's paced growth in such small period , the branch has praised and acknowledged the efforts and progress shown by the CS members .

## Dawn Of IEEE Embs In Comsats Islamabad

Saeed Ur Rehman, Member  
IEEE EMBS, Islamabad section

The IEEE comsats conducted its awareness campaign in the Bioscience Department of COMSATS Islamabad on 2nd September 2018 it was one of the fundamental sessions as it portrayed the crucial rubrics and guidelines to the new members and volunteers discussing Engineering in Medicine and Biology Society (EMBS) as a potential technical chapter of IEEE to the students. Students were encouraged to participate in the upcoming events and were explained how Biology is linked with Engineering and how can Biology students make a global difference. The Executive

Committee was very thorough and precise in laying down the key points essential to the attendees. In this way, everyone present was able to choose this chapter with a forethought or Deviate, if they may. All the queries were retorted with meticulous responses and the procedures were elucidated and clarified. At the end of the session, all the attendees were satisfied to their cores.



## 2. SECTION ACTIVITIES

### SYWL Networking Gathering and Cooking for IEEE Day Celebration in Tokyo

Emi Yano, Past Chair

**IEEE Japan Council WIE, Japan Council**

IEEE Day is celebrated worldwide to commemorate the first time in history when engineers worldwide and IEEE members gathered to share their technical ideas in 1884.

Tokyo Section Young Professionals and Japan Council WIE organized "SYWL Networking Gathering and Cooking for IEEE Day Celebration in Tokyo" on 1st October.

Students, Young Professionals, WIE and Life members enjoyed discussion for "Leveraging Technology for a Better Tomorrow". It encouraged the spread of cross-generation and cross-technical fields communications throughout IEEE members in Tokyo Section.



### 3. YOUNG PROFESSIONALS ACTIVITIES

#### Special Young Professionals Session in COMPSAC 2018

Mayumi Suzuki, Tokyo YP Chair

**Tokyo YP, Tokyo**

Tokyo YP held "COMPSAC2018 Special Young Professionals Session" co-organized by COMPSAC2018 at Tokyo, Japan on July 25th. COMPSAC2018 is the 42nd IEEE international conference of Computer Society. The purpose is to help Young Professionals understand the unique value and opportunities that IEEE and Society membership and volunteerism provide for their career development. The number of attendees were almost 100.

First, Ms. Suzuki who was Tokyo YP current representative introduced Tokyo YP activities. Then, we started panel discussion with moderator, Dr. Fujii, and 4 panelists, Dr. Metra, Dr. Kasahara, Dr. Milojicic and Dr. Walz. They were successive Computer Society President. They gave us excellent messages with reference to their lives. For example, of their message "never gave up and you should keep challenge" and "do not restrict yourself" and so on.

We were so encouraged by interaction with Computer Society presidents and YP, and this event ended successfully.



## 4. WOMEN IN ENGINEERING ACTIVITIES

### IEEE WIE STEM Activity

Nida Khalid, Academics Coordinator

**IEEE WIE AG UET Taxila, IEEE Islamabad Section**

IEEE WIE Affinity Group UET Taxila visited UET Taxila residential colony school and arranged an activity to promote science and encourage the young students to pursue engineering as their career. The representative from the society practically demonstrated the students a part of their theoretical course content.



### WIE - Women as Entrepreneur

Dr. Nithyavathy N, IEEE Student Branch Counselor, Associate Professor

**Mechatronics Engineering, Kongu Engineering College, Madras Section**

WIE - Women as Entrepreneurs explores the ways in which entrepreneurship acts to shape self-identity for women and validate their identities in a patriarchal society. Differing from existing past outcomes which focuses on the antecedents of entrepreneurship for women and their performing outcomes, Women as Entrepreneurs questions whether entrepreneurship is simply about exploiting a business opportunity for profitability. Asserting that both work and societal environments have an impact on an entrepreneur's self-identity, this event demonstrates ways in which self-conceptual thinking influences the relationship with their work in terms of motivation, effort, growth and performance.



### Flag Giving Ceremony

Hira Sajid, Member

**SBA17241 - COMSATS Inst of Information Tech-Islamabad, WIE, Islamabad section**

On 2nd October, Flag giving Ceremony took place in an event of IEEE day organized by IEEE COMSATS

University Islamabad. In this event, flags were handed over to the chairs of Student Branch and multiple

chapters present in IEEE COMSATS Islamabad as a token of passage of command. These flags were not just a symbol for different chapters but also a sign of pride, determination and enthusiasm. It was a

positive affirmation of loyalty and commitment towards the responsibility they had been given. These

chapters include Robotics and Automation Society (RAS), Computer Society (CS), Engineering in

Medicine and Biology Society (EMBS), Power and Energy Society (PES), Technology and Engineering Management Society (TEMS) and Women in Engineering Society (WIE). Chair of every chapter along with their members were really overwhelmed by this token of appreciation and passage of command. They were highly determined to grab opportunities and achievements for their chapters.



## Report of IEEE WIE ILS 2018, KOCHI

Mini Ulanat, Chair

### WIE IEEE Kerala Section

IEEE WIE International Leadership Summit Kochi 2018, hosted by WIE Affinity Group, IEEE Kerala Section was inaugurated on 7th September 2018 by Ms. Soumini Jain, the Hon. Mayor of Cochin Corporation, marking a milestone for IEEE Kerala Section WIE. Prof. Lillykutty Jacob, the General Chair, welcomed the chief guest, the 30-odd eminent speakers, 150+ delegates and other invited participants. She acknowledged the tremendous support from various sponsors for the successful execution of the event: UST Global, GE, Cochin Shipyard, CISCO, Allianz, Kerala Startup Mission, NeSTIT, and the IEEE Societies – IAS, PES, APS, and CS. She also specially mentioned the appreciation for IAS sponsoring 38 student delegates including their stay. The two-day Summit was the meeting point of researchers, engineers, students, academicians, practitioners, industrialists and the government officials who set out to explore the possibility of inviting more women into leadership positions, by learning from accomplished professionals.



## IEEE COMSATS Student Branch Award Distribution Ceremony

Muhammad Waleed Bin Nasir, chairperson

**STB17241 - COMSATS Institute of Information Tech Islamabad, Islamabad section**

Let us be grateful to the people who make us happy; they are the charming gardeners who make our souls blossom. Nature's beauty is a gift that cultivates appreciation and gratitude. I think for any relationship to be successful, there needs to be loving communication, appreciation, and understanding. IEEE ComSats WIE organizes an award distribution ceremony for their dedicated volunteers and members. They give awards on different categories based on the early performance of the members.



## IEEE WIE Star

Rafid Azad, Publications Coordinator

**IEEE AIUB Student Branch, IEEE Bangladesh Section**

On 29th July 2018, IEEE AIUB Student Branch WIE Affinity Group in association with IEEE AIUB Student Branch successfully

organized an outreach program titled “WIE STAR” at Kuril- Kuratali Ideal High School. The IEEE Student-Teacher and Research Engineer/Scientist (STAR) Program was developed to address the growing concern that, at a young age, girls are discouraged from careers in



mathematics, science, and engineering. The event solely focused on improving the perception of the field of engineering, motivating more girls to pursue an engineering career, as well as promoting the endless possibilities that can result from considering engineering as a possible career option. Students from class 6 to 10 participated in this outreach program. The day-long program consisted of motivational speech, engineering project showcase, talk on IEEE and IEEE WIE Affinity Group and interactive quiz & games session.

## 5. HUMANITARIAN ACTIVITIES

### Breath Clean

Muhammad Waleed Bin Nasir, Chairperson

**STB17241 - COMSATS Institute of Information Tech Islamabad, Islamabad section**

With the aim to clean air and provide healthy environment IEEE comsats Islamabad student branch takes part in tree plantation drive .More than 100 dedicated volunteers take part in this event.They planted more than 2000 trees in a single day .Moreover they are also taking care of these trees per week .



### The First Monash-Petrosains Gerontechnology Challenge 2018

Rajendran Parthiban, Secretary

**IEEE TEMS, Malaysia**

On 5 May 2018, the Design Thinking Workshop was hosted by Petrosains as part of the 4th Monash-Petrosains Gerontechnology Challenge 2018, which is held in an effort to encourage younger people to expend their creativity, expertise or technological knowledge with the hopes of producing innovative solutions to address the needs of older people. The event was co-sponsored by Monash University Malaysia and the Malaysian Chapter of the Institute of Electrical and Electronics Engineers' Technology and Engineering Management Society (TEMS).



Ten teams were selected from 35 applications. After the workshop, they interacted with their mentors, who were from various walks of life, consisting of engineers, lecturers and inventors, to develop their ideas further. Finally, the contestants pitched their revised ideas to the audience. They will receive funding to develop these ideas into prototypes.

## 6. SPECIAL NEWS

### IEEE SS12 International Project Competition And Maker Fair 2018

Ramalatha Marimuthu

Professor, Department of ECE, KCT

The fourth edition of SS12 ASIA: AGE OF INNOVATION 2018, a Coding and Making Challenge organized by Madras IEEE Education Society, was hosted in NSBM (National School of Business Management) GreenUniversity Town, Homagama, Colombo, Sri Lanka by IEEE Sri Lanka section on 8<sup>th</sup> and 9<sup>th</sup> of



September 2018 in partnership with Universities and leading technology industry companies across Asia Pacific, UAE, Africa and Afghanistan. The challenge is conducted annually to recognize the best social innovation application and this year the theme given was:

#### **‘EMPATHY TO ENGINEERING: SOLUTIONS FOR MACROISSUES’**

The domains selected were the areas covered by UN Sustainable Development Goals addressing the issues like Poverty and Famine, Disaster Management and first aid, Special Needs, Women Safety, Healthcare, Illiteracy and so on. The two days marked a high quality tech time for all the people concerned and the event ended with the promise of the next edition of the event being hosted by Stamford University, Thailand.



IEEE SS12 Project Exhibits



Junior Einstein



Maker Fair



Women Junior Einsteins

## 7. SPECIAL EDITION - IEEE REGION 10 STUDENTS / YOUNG PROFESSIONALS / WOMEN IN ENGINEERING / LIFE MEMBER (SYWL) CONGRESS 2018



# IEEE region 10 SYWL CONGRESS 2018



Student • Young Professionals • Women in Engineering • Life Member

*Collaborative Innovation for Society Development*

30 August - 2 September, 2018  
Prime Plaza Hotel, Sanur - Bali, Indonesia

## NEWSLETTER SPECIAL EDITION



## **WELCOME MESSAGE**

### **REGION 10 DIRECTOR**



Prof. Kukjin Chun

IEEE Region 10 Director

As the IEEE Region10 Director, it is my honor to congratulate a very successful 2018 Region10 SYWL Congress on Student, Young Professional, Women in Engineering and Life members in Bali in August 2018.

This Congress is a biannual event and we had over 300 participants this year thanks to the organizing committee. The objective of this Congress is to provide a platform for IEEE volunteers from different Sections for networking and sharing experiences as well as to train the volunteers about IEEE activities, best practices and methodologies. The participants will take the information from this Congress to their Sections for implementing future strategy.

Region10 have over 120,000 members in 58 Sections and 6 Councils which covers 30% of the IEEE membership. There are more than 1,400 Student Branches and almost 50 YP and WIE affinity groups. Life members are increasing with growing Life member affinity groups.

Actually that was a concern on the earthquake before the event, but we are very delighted to have a very enjoyable and dynamic event. Every day and night was fantastic with good discussion

and performance of participants from many countries. 50 Sections sent their delegates to this Congress for 4 days program and I appreciate IEEE leaders from United States, Europe, Canada and Region10 Executive Committee members. Special thanks for our IEEE president Jim Jefferies and the Government of Indonesia and Udayana University as well as IEEE Indonesia Section.

This big event is not possible without devoted volunteers and I'd like thank the organizing Committee of this Congress. They are Deepak Mathur, Nia Kurnianingsih, Ford Gaol as the General Co-Chairs; Pasan Pethiyagode, Gamantyo Hendrantoro, Endang Widjiati of the Program Co-Chairs and Rajesh Ingle, Nivas Ravichandran, Tomonori Aoyama and Jing dong, IEEE Singapore office, and Fitri Yuli of Indonesia Section Chair. I also appreciate 16 sponsors for this Congress including ORACLE Academy, IEEE YP, HAC, PES, IAS, COMSOC, Collabratec, iCon+, IEEE EAB, R10 Strategic Planning, R10 Industry Relations, R10 Individual Benefits & Services, R10 Educational Activities, Udayana University, Student Branch Udayana University, and WIE Udayana University.

I really hope all of the participants would bring unforgettable memory home.

## **WELCOME MESSAGE**

### **ORGANIZING COMMITTEE**



**Deepak Mathur**  
General Chair

It is a matter of great pleasure that we had a very successful Region 10 SYWL Congress 2018 at Bali. The event saw the dedicated and passionate volunteers organizing the event with meticulous planning and execution. And enthusiasm and active participation of delegates made it a memorable event. I would like congratulate all participants and volunteers who took part in the Congress at Bali for the success.

The Congress aimed at volunteer training and provided an excellent platform to all delegates to network with fellow volunteers with an opportunity to interact, brainstorm and learn best practices of different sections.

We also organized inspiring keynotes, technical talks and sessions on soft skills required for the growth and development of our volunteers. I am sure that the Congress provided all participants an opportunity of all-round development. They would be taking the learning from the Congress back to their sections to train volunteers further and implement best practices learnt to enhance the effectiveness of their respective sections.

On behalf of Organizing Committee and as General Chair of IEEE Region 10 SYWL Congress 2018, I thank all who made this congress successful.



**Dr. Kurnianingsih (Nia)**  
G. General co-Chair



**Dr. Ford Lumban**  
General co-Chair



**Prof. Rajesh Ingle**  
R10 SAC



**Pasan Pethiyagode**  
R10 SR



**Nivas Ravichandran**  
R10 YP Coordinator



**Dr. Jing Dong**  
R10 WIE Coordinator



**Prof. Tomonori Aoyama**  
R10 Life Member Coordinator

## **WELCOME MESSAGE**

### **INDONESIA SECTION CHAIR**



Prof. Dr. Fitri Yuli Zulkifli  
IEEE Indonesia Section Chair

Assalaamu 'alaikum warahmatullaahi  
wabarakaatuh

On behalf of IEEE Indonesia section, I would like to express my sincere gratitude and delighted to welcome you to R10 SYWL congress 2018 in Bali! IEEE Indonesia Section this year has celebrated its 30 years activities in Indonesia, and therefore it is a great honor that this year IEEE Region 10 has given this opportunity for us to organize this big SYWL congress to be held in Bali Indonesia.

In this occasion, I would like to thank and give a big appreciation to all of the IEEE volunteers as this congress organizers for their hard work, outstanding level of collegiality, coordination, and passion so this congress could be held wonderfully and successfully in Bali.

My sincere gratitude also to all the distinguished invited speakers and panelists whose knowledge and experiences can surely inspire us all. In addition, I really appreciate the support from the 16 sponsors for this SYWL congress. The sponsors are from IEEE, industries and university which shows that this congress is supported from various parties.

I would also like to say welcome to Bali, one of the paradise Island in Indonesia. Bali serves beautiful

heritages, culture, mountain, beach and scenery with warm, polite and friendly people, a vibrant exotic culture and lifestyle.

Finally, we do hope all of you will nurture, have enjoyable and valuable experience in SYWL Congress, Bali Indonesia. During this 4 days congress, please build your network; for students and young professionals, be IEEE young generations and become the next leader of IEEE in the future!

## SPONSORS

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Educational Activities

**IEEE Educational  
Activities**



**IEEE**  
UDAYANA UNIVERSITY  
STUDENT BRANCH



## SECTIONS ATTENDED

### SYWL CONGRESS 2018

#### NO. SECTION

1. AustralianCapital Territory
2. Bangalore Section
3. Bangladesh Section
4. Beijing Section
5. Bombay Section
6. Changwon Section
7. Chengdu Section
8. Daejeon Section
9. Delhi Section
10. Fukuoka Section
11. Guangzhou Section
12. Gujarat Section
13. Gwangju Section
14. Harbin
15. Hyderabad Section
16. Hong Kong Section
17. Indonesia Section
18. Islamabad Section
19. Kansai Section
20. Karachi Section
21. Kharagpur Section
22. Kerala Section
23. Kerala Section
24. Kolkata Section
25. Lahore Section
26. Macau Section
27. Madras Section
28. Malaysia Section
29. Nagoya Section
30. New South Wales Section
31. New Zealand Central Section
32. Pune Section
33. Republic of Philippines Section

34. Republic of Philippines Section
35. Sapporo Section
36. Sendai Section
37. Seoul Section
38. Shanghai Section
39. Shikoku Section
40. Shin-etsu Section
41. Sri Lanka Section
42. South Australia Section
43. Tainan Section
44. Taipei Section
45. Thailand Section
46. Tokyo Section
47. Uttar Pradesh Section
48. Victorian Section
49. Vietnam Section
50. Western Australia Section
51. Wuhan Section
52. Bhutan Sub-Section

## INTRODUCTION

IEEE Region 10 Students / Young Professionals / Women in Engineering / Life Member (SYWL) Congress 2018 has been a great success on 30 August-2 September 2018, at Prime Plaza Hotel, Sanur – Bali, Indonesia. This Congress is a biannual event and was attended by over 300 delegates. The Congress was attended by the representatives from other Regions apart from delegates from 50 sections of Region 10. The details are:

- 250+ delegates from 50 Sections in Region 10 (Asia Pacific)
- Region 1 (Northeastern US), represented by John Day, Director of Member Products and Programs
- Region 2 (Eastern US), attended by Jeff Eker, R2 Young Professionals Chair
- Region 3 (Southern US), attended by Subodha Charles as a representative of IEEE IAS
- Region 5 (Southwestern US), attended by James Jefferies, IEEE President
- Region 7 (Canada), attended by Dr. Maïke Luiken, IEEE Region 7 Director
- Region 8 (Africa, Europe, Middle East), attended by Dr. Rafal Sliz (IEEE Young Professionals Global Chair); Flavia Dinca (IEEE Young Professionals Vice Chair); Shashank Gaur as a representative of IEEE COMSOC

The theme of the Congress is *Collaborative Innovation for Society Development*. The objective of this Congress is to provide a platform for IEEE volunteers from different Sections for networking and sharing experiences as well as to train the volunteers about IEEE activities, best practices and methodologies. The participants take the information from the Congress to their respective Sections for implementing future strategies and training of other local volunteers.

The Congress was inaugurated by the IEEE President and CEO, James Jefferies and he was assisted by a robot making the inauguration unique and memorable. Following dignitaries attended and the opening ceremony along with the participants and volunteers.

- IEEE President, James Jefferies

- IEEE Region 7 Director, Dr. Maïke Luiken
- Ministry of Youth & Sports of the Republic of Indonesia, represented by Deputy of Youth Empowerment Sector, State Minister for Youth & Sport Affairs, Prof. Dr. Faisal Abdullah
- Leader of Education, Youth, and Sport Office of Bali, Tia Kusuma Wardhani
- Mayor of Denpasar City, Ida Bagus Rai Dharmawijaya Mantra, SE, M.Si
- Director of Oracle Academy for Asia Pacific and Japan, Damian Haas
- Country Manager of Oracle Academy for Indonesia and Malaysia, Nurul Huda



*Opening Ceremony of IEEE SYWL Congress 2018*



*Welcome Address by IEEE Region 10 Director, Prof. Kukjin Chun*



*Welcome Remark by General Chair of IEEE R10 SYWL Congress 2018, Deepak Mathur*



*Program at Glance by Program Committee of IEEE R10 SYWL Congress 2018, Nivas Ravichandran*



*Sponsor Acknowledge by General co-Chair of IEEE R10 SYWL Congress 2018, Dr. Kurnianingsih (Nia)*



*Welcome Remark by Indonesia Section Chair,  
Prof. Fitri Yuli Zulkifli*



*Program at Glance by Program Committee of IEEE R10 SYWL Congress 2018, Pasan Pethiyagode*



*Group Photo of Opening Ceremony*

## IEEE R10 Student Activities Committee

The Activities for the Students in the Congress were organized by R10 SAC Team, namely, Dr. Rajesh Ingle (R10 SAC Chair), Pasan Pethiyagode (R10 RSR), Purva Ekatpure (R10 SAC Meeting Coordinator), Shabab Iqbal (R10 SAC Website Coordinator), Jashan Preet Singh (R10 SAC Website Contest Coordinator), Akhil A. (R10 SAC Paper Contest Coordinator) and Vivek Kumar (R10 SAC ZSR).



*Group Photo of the participants of the SAC track*

The Student Track of the Congress was organized on 31st August 2018 (11:00-16:00). The pre-lunch session(2 hrs) consisted of address to the students by IEEE Delegates namely, IEEE President and CEO- James Jefferies on 'Future of IEEE', IEEE R10 Director- Prof. Kukjin Chun on 'Research Opportunities' , IEEE R10 Director Elect -Prof. Akinori Nishihara on 'Ethics in Publishing', IEEE R10 SAC Chair -Prof. Rajesh Ingle on 'IEEE R10 SAC Initiatives and Best Practices' ,R10 RSR- Mr. Pasan Pethiyagode on 'Reactivating Student Branches' and CEO & Chief Scientific Officer-BioAxis DNA Research Centre Pvt. Ltd. - Dr. Amit Kumar on 'Internship: Insights and Recommendations'.



*IEEE President and CEO- James Jefferies giving speech*



*IEEE R10 Director- Prof. Kukjin Chun giving speech*

During the lunch, 'Infographics Competition' was conducted for the students to represent the activities of their Student Branches and their Sections in the form of an Infographic. The call for the Competition was circulated on 1st August 2018. The Competition received 25 Student Branch Entries and 5 Section Entries, which were judged by a total of 11 Judges on the day of the competition based on the content, creativity of poster and presentation. The Competition helped all the student delegates to learn about the best practices and the activities conducted by other Student Branches and Sections, so that those can be incorporated in their SBs and sections.

The post-lunch session of the Student Track consisted of a 2 hrs Networking Activity-"Living in the Future". The pre-engagement of students for this activity had commenced 1 week before the Congress on IEEE Collabratec Platform-'Global Student Exchange Community" by the means of posts related to 8 upcoming technologies (eg: Elon Musk's venture- Neuralink, Google- Calico, Uber Air, Mars Colonisation, etc).



*Networking Session-'Living in the Future': Skit presentation*



*Networking Session-'Living in the Future': preparation in progress*

On the day of the event, the students were divided into 8 teams ensuring diversity with respect to sections among the teams to promote networking among them. Each team was assigned an upcoming technology which was posted on IEEE Collabratec, and they had to present a 5 mins skit depicting the situation/ common life scenario which we would be able to see, in case that technology came into existence. It was judged by 5 judges namely, Dr. Maïke Luiken( IEEE Region 7 Director), Dr. Hussain Mahadi (IEEE IAS Chapters Area Chair, R10 South-east Asia, Australia and Pacific), Dr. Vijaylata (Chair-IEEE WIE AG Hyderabad Section), Prof. Dr. Shaikh Fattah (Education Chair, IEEE Humanitarian Activity Committee) and Dr. Rachana Garg( SAC Chair-Delhi Section). The activity turned out to be of great fun and helped networking among the students. This concluded the Student track of the Congress.



*IEEE AIUB Student Branch and IEEE North South University Student Branch is receiving award of MGA Region 10 Exemplary Student Branch 2017 and 2018 respectively*

During the Awards Night on 31st August, the IEEE R10 SAC Awards for 2018 and MGA Awards for 2017,2018 were presented. The recipients for these awards were:

- 1) MGA Larry Wilson Regional Student Activities Award 2017: Anindo Saha (Bangladesh Section)
- 2) MGA Region 10 Exemplary Student Branch 2017: IEEE AIUB SB, Bangladesh Section
- 3) MGA Outstanding Counsellor Award 2017: Dr. M.Tanseer Ali, Bangladesh Section
- 4) MGA Larry K.Wilson Regional Student Activities Award 2018: Wickramage Yasitha Harshanath, Srilanka Section
- 5) MGA Region 10 Exemplary Student Branch 2018:
  - a) IEEE North South University SB, Bangladesh Section
  - b) IEEE Multimedia University Student Branch, Malaysia Section
  - c) College of Engineering Karunagappally, Kerala Section

- 6) R10 SAC Volunteer Award 2018: Kong Sheng How, Malaysia Section
- 7) R10 SAC Student Volunteer Award 2018: Abhijeet Biswas, Bangladesh Section
- 8) R10 SAC Student Branch Award 2018: IEEE Multimedia University Student Branch, Malaysia Section

During the closing ceremony of the Congress on 2nd September, the results of Infographics Competition held during the Student Track were declared and certificates were presented. The winners were:

- 1) Student Branch Category:
  - a) First Place: IEEE AIUB Student Branch, Bangladesh Section
  - b) Second Place: IEEE North South University Student Branch, Bangladesh Section
  - c) Third Place: PICT IEEE Student Branch, Pune Section & Chengannur College of Engineering Student Branch, Kerala Section
- 2) Section Category: Kerala Section



*Winning 2 Teams of the Networking Activity “Living in the Future” along with the judges*

Along with it, the Certificates to the winning teams of “Living in the Future” Networking Activity held during the Student Track were also presented.



IEEE Region 10 SAC team 2018 with the delegates

Thus, the R10 SAC Activities during the SYWL Congress were in line with the objectives of the Congress. They provided a platform for IEEE student volunteers from different sections to network, interact and learn from the volunteers, trained them about IEEE activities, best practices, methodologies from different Sections and SBs so that they can take back the learnings from the Congress to implement in their sections, student branches.

## IEEE R10 Young Professionals

The biennial event of the Asia-Pacific region was held from 30th August to 2nd September this year. The flagship congress looked upon by every enthusiast volunteer, had a turnaround of 260+ delegates - around 30% of which was by the Young Professionals. Unlike the usual 2-days track, the YP centric track this time was fabricated for inducing a more focused brainstorming on day-1 while on day-2 exposure to more communities and instances where YPs can further contribute in addition to self-development tracks were in the focus area. The tracks were planned with a goal to cover myriad topics, across all verticals that could nourish the experience for YPs.

The day commenced with the IEEE Region 10 Young Professionals Coordinator - Nivas Ravichandran, sharing the Region 10 Young Professionals' current targets and achievements, newer goals, and the delight to have had established YP community in 17 sections across Asia-Pacific under his leadership. He also shared the success of the flagship events of the YP - the HardTech Summit and how the YP is trying to put up the event irrespective of newer challenges. The 'Section Meetups' was another successful initiative in adding values to the intra-section networking.

To diversify the experience of the delegates further, we had Rafal Sliz, Global Young Professionals Chair from Region 8. His insights and one-to-one interactions hold not only the sharing of inter-regional practices and cultures but also the challenges that each region and YP as whole faces and the efforts they put up to overcome these. As the discussions grew intense, to everyone's amuse, the solutions to challenges of one Region could be found in practices of the other.



Queued up was a fireside chat with the IEEE Region 10 Director-Elect 2018, Akinori Nishihara. Knowing his perspective on the significance of YP in IEEE, expectations and how he can cultivate our growth was a key takeaway for delegates as it motivated them to define a path as a volunteer and know the kind of support we can get in raising the bars higher. Also, it was important for the YPs to know and realize how their steps are and will continue in the shaping of the IEEE community. It seemed to be a great exposure to be able to participate in such a candid dialogue and to learn from Akinori san that a far vision, simplicity, and determination remains constant across all levels of volunteering.



With a view of broadening the horizon for all sections, the track included sessions on 'Best Practices' - progressive and unconventional - that was followed by sections of Bangalore, Tokyo, Bangladesh, and Region 2; represented by Abhishek Appaji, Mayumi Suzuki, ARM Abdullah Rocky, and Jeff Eker respectively. The flow of ideas throughout these sessions, the story of their executions and the willingness of sections to implement and enhance these was a testament to the how it appealed to the volunteers.

To boost up the interactions and networking, the YPs had a workshop led by Flavia Dinca, Global Young Professionals Vice-Chair and moderated by the Global YP team attendees, viz. Rafal Sliz, Flavia Dinca, Shashank Gaur; the participating teams putting up the best of their ideas and visions to empower YP further by channelizing the efforts in utilizing this platform and building new ones within. The supreme target was to come up with a perspective on potential benefits to YPs, irrespective of their region.

The 'YP Poster Competition' was another platform for volunteers to propose their abstracts, plans, successful initiatives, missions, and visions.

The Global YP team made sure to acknowledge the best of the ideas with a token of appreciation in order to vitalize the morale of the volunteers.

Bolstering the young professionals from an individual perspective, the IEEE Region 10 Strategic Planning Committee delivered their experiences on how IEEE helped them and kept their zeal going in the triumph of their entrepreneurial careers, how they balanced their priorities with work and IEEE. The Young Professionals team saw this of much importance to the YP volunteers who juggle between growing themselves professionally and finding time out for volunteering.

Overall, the Young Professionals track tried to deliver a brewing experience to the volunteers. From networking among Region 10 to across Region 8 and Region 2, from brainstorming about their paths in IEEE to career development. We believe the power of this community lies not only in the energy they hold to revolutionize things but the joy each one of them takes in their volunteering affairs. With the supports from IEEE, the Young Professionals aim to grow not only themselves but everyone who comes along.



## IEEE R10 Women in Engineering

IEEE SYWL WIE Track was held at the Prime Plaza Hotel, Sanur - Bali, Indonesia, in the presence of an eminent group of delegates and leading volunteers of the IEEE, along with various national & international establishments, on 31st August.

The WIE Track featured two high quality knowledge sharing sessions and the WIE Post Contest. The invited speakers included Dr. Jing Dong, the R10 WIE Coordinator, Prof. Riri Fitri Sari, the Indonesia Section WIE Chair, Prof. Celia Shahnaz, the Past R10 WIE Coordinator, Dr. Paulina Chen, the Hongkong Section WIE Chair, Ms. Emi Yano, the Japan Council WIE Chair, Dr. Zuhaina Zakaria, R10 Educational Activities Coordinator, Prof. Chris Lee, the R10 Individual Benefits & Service Coordinator and Mr. John W. Day, the IEEE Member Products & Programs Director.

In the WIE sessions, Dr. Jing Dong welcomed all the attendees and delegates and made a brief introduction about the R10 WIE status, including the WIE mission, membership, activities and workplans for the whole region, encouraging all the volunteers take part in the regional and global WIE activities, and inspiring their local members to take leadership and professional skills enhancement through the events and experience, indicating the theme--- "By joint hands, WIE CAN". Prof. Riri Fitri Sari gave the presentation "Showcase of the WIE Activities in Indonesia Section AG", introduced the status of Indonesia WIE Affinity Group and its achievements, showing that the WIE AG there has made great impact across whole Indonesia Section through different activities. Dr. Paulina Chen took herself experience in Hongkong WIE Affinity Group as an good example for her talk : "Pursue your passion: inspire the enthusiasm for better volunteering of WIE". She also emphasize the importance of engaging male member in the whole activities and executive committees. Prof. Zuhaina Zakaria took the example of WIE ILS Malaysia as a showcase to explain how to organize a fantastic event and the importance of building the teamwork. Dr. Celia Shahnaz also shared her excellent leadership and professional experience in her career and encouraged all good ideas from the volunteers. Ms Emi Yano, from the other hand, told us several stories indicating the importance of collaboration

between WIE and LM. Prof. Chris Lee and Dr. John Day followed to give two excellent presentation regarding the individual benefit and Collaboratec. All the speakers shared their views and opinion with the attendees there for the panel discussion.

The WIE Post Contest aiming to highlights the WIE "Best Event" from all the WIE AGs in the year of 2017-2018 and evaluate top 3 to award on site from the delegates. After the offsite evaluation of the submitted posters from the delegates, WIE committee selected top 10 posters to present and be evaluated on site for the SYWL poster session, finally the WIE "Best Event" Post Contest Winner gave to IEEE WIE Student Branch Affinity Group of University of Colombo School of Computing (Sri Lanka Section) and two Honorable Mention gave to IEEE Bangladesh Section WIE AG and IEEE Hongkong Section WIE AG.



## IEEE R10 Life Member - Revitalizing Life Member Activities

In parallel with the Student Track, and WIE (Women In Engineering) Track, a two-hour Life Member Track (LMT) Session on August 31 was held during the SYWL Congress in Bali.

The LM Track Session chaired by Prof. Tomonori Aoyama, IEEE R10 LM Coordinator, presented an interesting program composed of four (4) topics and a Panel with speakers and Questions & Answer Session from the floor.

The entire LMT Session provided us with valuable example activities in Sections already having a LMAG (Life Member Activities Group) and promoting Sections who still have to come up with a LMAG. Hence, revitalizing Life Members still to be actively involved in their Sections.

The four (4) topic discussions were as follows:

1. Overview of Life Member (LM) and the benefits of LM by Tomonori Aoyama, R10 LM Coordinator;
2. Kerala LMAG Activities and the LMAG Achievements Award 2018, by A.G.Hareendralal, Kerala LMAG Chair;
3. Tokyo LMAG activities by Tetsuya Miki, Tokyo LMAG Chair;
4. LM status in Indonesia Section by Arnold Djiwatampu, Indonesia Section
5. Panel Session with speakers and Q&A from the floor by the Panel Coordinator, by Tomonori Aoyama.

It is interesting to have examples of LM activities from an IEEE Section in a developing country, the Kerala Section, and a developed country like Japan, the Tokyo Section.

The LM Session also was attended by other Members although they are not LM Members.

The presentation on the status of a IEEE Section having no LMAG established, yet, was provided by Arnold Djiwatampu, SLM of the Indonesia IEEE Section.

This Section only has six (6) LM who are engaged in sharing experiences in Section and Chapter activities, promoting IEEE membership to

professional societies and Government officials. To one end the minimum requirement for establishing a LMAG is 6 LMs, at the other end for a stable one, more LMs are required.

The lively interactions during the Panel discussions focused on Future possible activities including those in Sections having no LMAG. yet. Life Members could be involved in lectures, social gathering, etc.

The 15 LM participants are very small compared with the 245 participants of the SYWL Congress. At the other hand it is noted that the WIE Panel Session will discuss about the collaboration activities between WIE and LM which will be held in the afternoon of August 31.



## Academic Track



### Quality Publication and Conference for Strategic Academic Career Planning

*R10 Conference Quality Coordinator, Lance Fung*

A presentation on “Quality Publication and Conference for Strategic Academic Career Planning” was delivered by Emeritus Professor Lance C.C. Fung during the Academia Track at the 2018 IEEE Region 10 SYWL Congress on 1<sup>st</sup> September, 2018 in Bali Indonesia.

Professor Fung shared his experience and observation from the Australian Academic Sector and other part of the world. He emphasized the importance to be strategic with respect to career planning. He then focused on quality publications and quality conferences as the means to communicate one’s key achievements. Suggestions included registration of ORCID, establishment of an online profile, sharing of research output and use of social network including blogs and tweets. He then challenged the audience on new research areas, new skills, new expertise to meet local, national and international interests. He emphasized the importance of being involved with quality conferences and quality publications while be careful about predator publishers and conferences.

In summary, academic career is very competitive across the globe and quality publication is an essential indicator of achievements, so it requires strategic planning to communicate achievements.

### Integrity in Academia

*Program Committee Chair of SYWL Congress,  
Gamantyo Hendrantoro*

Gamantyo Hendrantoro gives presentation with topic on integrity in academia. This topic is taken since integrity is a consequence of being a member of the academia by observing the ethical codes in university, especially applicable in a relationship with students, lecturers, the university, the wider academic community, and self-consciousness. This integrity becomes more complicated by the increasingly-advanced information technology.

Several items are delivered during presentation including points such as integrity in publication writing, workload distribution among joint-researchers, how to use online information, plagiarism, duplicate submission as well as choosing the right journal for publication. Secondly, several issues related to conferences such as organizing and attending a conference are also discussed. The speaker invited an open discussion from the audiences.

### Step Wise Guide to Write A Research Paper

*Dr. Norliza Mohd Noor*

Another invited speaker for the academia track, Norliza Mohd Noor from Universiti Teknologi Malaysia presented a talk titled ‘Step Wise Guide to Write a Research Paper’. She motivated the audience on the reasons and the needs to write a research paper, and continuing her talk by reviewing several types of research paper and understanding the writing process for each category.

She also touched on the prestige and scope of the publication, which will be the authors’ deciding factor where to submit their work. Lastly, she presented on step-by-step guide on writing the research paper starting from how to develop the paper title to the end, which is writing the conclusion.

### Panel discussion on Bridging the Gap between Industry, Academia, and Government

#### Panelists:

1. *Jim Jefferies, IEEE President;*
2. *Prof. Akinori Nishihara, IEEE R10 Director-elect;*
3. *Dr. Jumain Appe, Director General of Innovation Strengthening, Ministry of Research, Technology and Higher Education of the Republic of Indonesia;*

4. Ery Punta H., Managing Director of Indigo Creative Nation, Telkom Indonesia.

Moderator:

Dr. Endang Widjiati, Agency for Assessment & Application of Technology, Indonesia



Panel discussion is held on the second day, September 1, after the presentation from Director General of Innovation Strengthening, Ministry of Research, Technology and Higher Education of the Republic of Indonesia, Dr. Jumain Appe, with the same topic of the discussion i.e. How to Bridge the Gap between Academia, Industry, and Government. Four panellists that join the discussion are Akinori Nishihara as IEEE Region 10 Director-elect who represent the academia view, Jim Jefferies as IEEE President and CEO who represent the US industry view, Ery Punta Hendraswara as Deputy Executive General Manager, Digital Service Division, Telkom Indonesia who represent the Indonesia industry view and Dr Jumain Appe who represents the Indonesia government.

Dr Jumain stated that government must play the role of facilitator and assure a beneficial climate where industry can flourish and have access to world markets. Industry must avail itself of all resources and promote cooperative research in order to avoid duplication of effort and expense. However, industry should also support academia as a resource. Finally, academia needs to support industry in return by improvement in the quality of education and modernization of curricula. The industry consortium is helping in this respect. Curricula, equipment, and instruments required to perform research at universities must be upgraded as part of this effort. As conclusion of this panel discussion, strategies on how government can play a role in supporting what the needs of industry and

can be supported by the academia, may be different for each region/countries.



## ICT Strategy and Update Towards Industry 4.0 Readiness

*Satriyo Dharmanto (CEO & Founder at Multikom; Consultant of the Public Policy Strategy, Ministry of Communication and Information Technology, Republic Indonesia)*

Based on the United Nations Food and Agriculture Organization (FAO), the overall prosperity and well-being of populations around the world highly depend on how well countries manage their food and agricultural sectors, and their precious natural resources, such as land and water, and their forest resources.

Refer to the World Bank, technological progress is a considerable driving force behind economic growth, citizen engagement and job creation of the country. Information and communication technologies (ICTs), in particular, are reshaping many aspects of the world's economies, governments, and societies.

Based on ITU, currently there are more than 7 billion mobile cellular subscriptions worldwide, corresponding to a penetration rate of 97%. In Indonesia currently have about 250 million mobile cellular subscriptions, with penetration rate about 105%.

Young people represent almost 25% or 1/4 of the total number of individuals using the Internet worldwide.

The Disruptive Technologies are really happen. For example, Uber is currently become the World's Largest Taxi Company, with owns no car. Facebook is currently become the World's Largest Media Company with produces no content, and Netflix is currently become the World's Largest Movie house, with owns no cinema.

Digital Transformation will force many industries to change their operating paradigm, from being manpower-intensive to being technology-centric.

The Indonesian government officially launched the roadmap called "Making Indonesia 4.0" it includes major innovations in the digital technology, biology and hardware automations, and also implies that cyber-physical systems can make their own basic decisions, hence becoming increasingly self-ruling.



## Building your Social Media Profile

*Nivas Ravichandran*

From a point of view of a budding individual, the world is a place for a new revolution every single day and social media is its prime axis. These thoughts resonated with Nivas Ravichandran as well who was enthusiastic enough to help volunteers in 'Building an effective Social Media Profile' at the IEEE Region 10SL SYWL Congress. Thus, it was a must to highlight what role social media could play and how can its utilization to the fullest be beneficial to all.

In sharing his experiences, Nivas guided on how in building a strong social media profile it was important to first Target the platforms that fit our objective and how these platforms could then help in presenting us the way we want ourselves to be seen. However, the point one couldn't have missed throughout was that the core of each of these lied in networking and building these networks.

In explaining how he utilizes social media as per current scenarios, Nivas focused more on LinkedIn, Facebook and Twitter as the grassroots of building a strong social media profile. While keeping these profiles clean and posting content relevant to their purpose remained a common practice for him, he made sure volunteers understand how interacting with people across these must vary.

Few other key takeaways from the session were to have an updated bio, a positive active participation and defining our goals via profile taglines. In keeping a check on growth, on which the awareness is low, he enlightened on how the social selling index or profile completion status could be monitored.

A slew of interesting questions, an overwhelming feedback and healthy discussions following his talk bespoke of how insightful and productive this was to the volunteers.

## **Panel Discussion on Technologies and Industrial needs of 4th Industrial Revolution:**

### **“Are Our Students and Young Professionals Ready to Join the Pace”?**

*Moderator: Amit Kumar, CEO (BioAxis DNA Research Centre, India)*

*Panelists:*

- *Prof. Akinori Nishihara, R10 Director Elect (2017-2018)*
- *Mr Deepak Mathur, R10 Vice Chair, Membership Activities (2017 – 2018)*
- *Prof. Toshio Fukuda, President elect (2019)*

There used to be a time when tech companies were truly reluctant to understand the impact of their services and products on the society, usually they deferred to undertake responsibility how their offerings (products, services) are being utilized. Current time and policies have seen a real change in thought process about the impacts of emerging technologies (Especially after GDPR and issues with giants like FB and Google). Most of the processes are being automated and Industry is far cautious about their Products, services along with their employees and the way they operate and undertake the projects. ML, AI, Cyber physical systems have taken over most of the things be it banking or healthcare. There is a high possibility and threat for our young minds and they could be left behind not aware about Industrial policies, their operations and be serious towards updating and understanding the highly changing industrial operations in this revolutionary changing tech era.

With the above background by Amit, following key points were taken up

Is this the time to caution our young engineers about the problems and issues of the fast changing technology world was discussed and focused by Mr Deepak Mathur, R10 Vice Chair of Membership activities.

Will 4th Industrial revolution bring opportunities to make you rich with lesser work pressures in Industry? Was taken up by Dr Toshio Fukuda, Past R10 Director and Director of Division X

Does the 4th industrial revolution ensure and is a predictor of increasing the unemployment base? Should we encourage our students and YPs ,how to cope with this situation? Various aspect and related discussions were explained and discussed by Dr Akinori Nishihara, R10 Director Elect 17-18.

It was a very well received and interactive session, several questions were taken up by audience.



## IEEE R10 HTA Committee: Sustainable Humanitarian Global Development Workshop

*Parkash Lohana*

*IEEE R10 HAC Coordinator (2017-18)*

In the coming year, humanitarian technology and its relevant solutions will bring revolutionary change utilizing areas such as robotics, automation, artificial intelligence in global development. With a promising potential for these technologies and prospective talent of IEEE volunteers, a match can be created between talents to solutions. While the challenge lies in making them reliable, scalable and sustainable in long-run, however as a starting point to consider, it requires a sheer amount of brainstorming and ideation on volunteers' end to identify, inspire and ideate solutions that can solve some of the global solutions and primarily that of our region (Asia & Pacific).

There were two main objectives for this workshop:

1. Encourage IEEE members, especially the young engineers, to work in the humanitarian technology (HT) areas, and
2. To create an impact through HT activities in their societies particularly for underserved communities.

To carry this motive of IEEE R10, HTA Committee conducted a workshop for young professionals and student volunteers of IEEE during the IEEE R10 SYWL Congress held on September 1, 2018, more than 25 participants were registered for this workshop. The theme of the workshop was based on sustainable engineering global development. This workshop was conducted jointly with IEEE HAC.

The goal of this workshop was to develop the skills needed for conducting successful humanitarian engineering projects in the

participants, particularly the future SIGHT and HTA projects and programs.

The expected outcomes from this workshop were to set a path for the attendees to enhance their skills in humanitarian projects, reducing the risk of wasted work and failed projects. The idea was that professionals and students in greater numbers than ever before are entering the field of humanitarian engineering for global development and many were unprepared.



*Speaker conducting the workshop*

Organizations such as “Engineers Without Borders USA”, which reported an increase of 500 percent in membership from 2005 to 2011, have seen an influx of novice practitioners. At the same time, experienced practitioners have seen the repetition of common mistakes. Even with a strong technical background, engineers, designers and students first setting foot in the field can fail to understand basic principles of inclusive design (working with, rather than for, a community), articulating a problem statement, the counter-intuitive economic priorities in impoverished communities, working in a foreign culture and other challenges. The root of the problem is often a set of questions that engineers and designers do not think to ask.



*Speaker is receiving a token of appreciation from R10  
Director Prof. Kukjin Chun*

The workshop session divided into two sessions, first covered the awareness among the participants regarding the significance of switching from R10 HTA's flagship humanitarian project AIYEHUM to TENHUMCH, the TENHUMCH was not only changing in the title but this has changed in their requirements, earlier students, young professionals were given the funds up to maximum USD 500.00 for designing and developing technological solutions for the benefit of resource constrained and vulnerable communities. Later it was realized that investing this amount only for developing engineering prototype may not be more valuable than any final year student project. In 2018 IEEE R10 HTA committee introduced the concept of one proposal one prototype with some handsome amount of funding which may encourage young scientists and engineers to solve real-world challenges applying science and technology. The contest aims at orienting young minds towards identifying community problems and developing technology solutions, focusing on actual implementation reaching the beneficiaries and the most important TENHUMCH proposals must involve the local community.

The second session covers the hands-on activity for the attendees, participants were given two challenges with the objective to develop the skills for conducting the successful humanitarian projects among the participants. The activity includes the SIGHT logical model, PESTLE Analysis and the development of the budget and plan for the proposed project.

After the completion of the workshop, R10 Director Prof. Kukjin Chun thanks the speaker and the participants who have attended the workshop.

It was very interesting for the participants for

giving some assumptions about the earlier knowledge of the challenge by answering some questions, later they had filled the IEEE SIGHT logical model containing project mission, input, activities, output, outcomes, and environmental implications. One more analysis done during the workshop by the participants is PESTLE (Political, Economic, Social, Technological, Legal, and Environmental) this is called an external environmental analysis. Finishing a budget and project plan was also very interesting and the supporting activities during the workshop.

After the completion of the workshop, R10 Director Prof. Kukjin Chun thanks the speaker and the participants who have attended the workshop.

## IEEE HAC Education Workshop

Professor Shaikh Fattah, PhD  
Education Chair, IEEE HAC

IEEE Humanitarian Activity Committee (HAC) organized a workshop and invited talk on 1<sup>st</sup> September 2018 in IEEE Region 10 SYWL Congress at Sanur Plaza Hotel, Bali, Indonesia. IEEE HAC Education Chair Professor Dr. Shaikh Fattah represented IEEE HAC in the congress. He delivered the Invited Talk and conducted the HAC Education Workshop. In 2018, IEEE HAC has been organizing such workshops in various regions of the world to encourage and enlighten the enthusiastic volunteers for engaging themselves in the development of humanitarian technologies targeting some specific sustainable development goals (SDGs). The workshop was designed in such a way that at the end of successfully participating the workshop the participants will be able to map the local community needs with appropriate SDGs and can take effective initiative to conduct humanitarian projects/event focusing sustainable development. The participants of the HAC events were very satisfied and motivated towards “collaborative innovation for society development”, the theme of this congress.



Invited Talk by Prof. Dr. Fattah

In the invited talk Professor Shaikh Fattah explained the major steps to be taken to identify and understand the local community needs, analyze the possible solutions, and finally serve the community through humanitarian technology projects targeting sustainable development. Detailed information on funding opportunities from IEEE HAC and IEEE special interest group for humanitarian technology (SIGHT) to support potential humanitarian projects and events was also presented. The invited talk was delivered in the morning common session where along with TENCON participants there were IEEE President James A. Jefferies and his wife Gloria Jefferies, Region 10 Director Prof. Kukjin Chun, Region 10 Director Elect Prof. Akinori Nishihara,

Region 7 Director Maïke Luiken, IEEE President Elect Prof. Toshio Fukuda, General Chair of R10 SYWL Congress Deepak Mathur who is the Region 10 Director Elect for 2019-2020, Prof. Kazuhiro Kosuge, former Division X Director and Past President of RAS, IEEE YP Chair Rafal, Region 10 Coordinators Kurnianingsih Nia (General Co-Chair of R10 SYWL Congress), Nivas Ravichandran, Prof. Rajesh Ingle, Prof. Tomonori, Jing Dong, Pasan Pethiyagode, many distinguished IEEE leaders like Lance Fang (Conference Quality Management), Prof Fitri Yuli Zulkifli, Indonesia Section Chair. Some of them also participated the workshop as guest.

The HAC Education Workshop was held right after the lunch and the room was completely full with overwhelming participation. There were 10 active teams in the participatory workshop and more than 40 participants attended the workshop. In the first part of the workshop, Prof Fattah explained fundamentals of sustainable development, introduction to UN SDGs, importance of dealing with community needs and scope of community engagement, ten key factors of humanitarian project design targeting sustainable development, and funding opportunities in IEEE (especially in HAC and SIGHT) were elaborated. Participants were encouraged to map the correct SDG with the local needs. It is very important for a new contributor to focus first on the needs of the local community and then develop sustainable solutions to fulfill the needs. In the second part, he presented some examples of successful humanitarian projects and Parkash Lohana demonstrated Region10 initiatives to promote humanitarian activities and some examples of humanitarian projects.



Interactive HAC Workshop: each team is sharing project ideas with Dr. Fattah

The third part was the most challenging interactive project design session where the participants were divided into 10 teams, each team consisting of three to five members. Each team had to prepare a project proposal following the guidelines provided in the first part. Professor Dr. Celia Shanaz and

Sarang Shaikh were invited in the workshop to share their experience about IEEE SIGHT and help the participants during the interactive design session. Each team independently identified some local community needs, discussed them with all and proposed some suitable humanitarian technology solutions meeting appropriate SDGs. Their instant proposals were streamlined and critical issues were notified. The most exciting part was the presentation and question-answering part, where the participants asked several critical questions to other participants. It is found that all 10 teams were intensively engaged during the brainstorming session and each participant was very enthusiastic during answering the critical questions on their project proposal asked by other participants. By attending such a workshop participants received introduction to formal education on humanitarian technology and sustainable development. It is expected that such knowledge will help them in future to contribute in sustainable development. In the workshop a token of appreciation was delivered by R10 Director Professor Dr. Kukjin Chun. A very brief description of some projects is provided below:

- **Park Lifting:** N. Kim, J. Lee, and R. Ramodhana

A sustainable development project proposal of solving the crisis of parking places in urban areas of South Korea maximizing the utilization of free spaces in innovative and efficient manner.

- **Clean Coastal Water:** A. Indira, A. Trawironegoro, and M. T. Hanif.

The target of this project is to produce clean water in coastal areas of Karachi, Pakistan in a very low cost sustainable manner based on recycling process.

- **ADH Disorder Assessment:** Dr. Vijayalakshmi K and Dr. Suma MS

The target of the project is to develop low cost neurocognitive device to carry out cognitive assessment of attention deficit hyperactivity disorder (ADHD) in children.

- **Sustainable Women Hygiene System:** Dr. Annapurna P P, Sireesha Tamada, and Dr. Vijayalaxmi

The objective of the project is to develop sustainable women hygiene system with smart features considering local resource constrains, cultural and social practices.

- **Smart Bio Fuel:** Savneet Chhatwal, Akash Thakare, C. Satish, and Pooja Sharma

The target is to design and develop sustainable smart bio fuel generation plant considering local resources and community practices.

- **Digital Child Care for Working Women:** Irtiza Haque, Shoilie Chakma and Baishakhi Rani Biswas

The goal is to design and develop child care center for women working in a private bank with highest level of security, monitoring and connectivity.

- **Drinking Water from Sea:** Amalia Sholehah, M R Memon, Hanan Daudpota, Nur Afny, and Rabbia Saleem

The goal is to design and develop low cost plant to make the sea water usable which can serve a large population living in the coastal area.

- **Mosquito Mapping:** Azfar Adib, Redwan Ferdous, Raihan ur Rashid

The goal is to design an app to map the mosquito densities dynamically in a region to take action accordingly.

- **Clean Communities:** A Jain, Iyer anand, Cesio Raihandary

To offer clean environment with very low emission and pollution

- One team worked on humanitarian projects was Shaiikh M. Anas, U. Mandy, Ryuichi Takemura, Amalia Sholehah, M R Memon, Hanan Daudpota, Nur Afny, and Rabbia Saleem

## IEEE Industry Applications Society

*Subodha Charles & Hussain Mahdi*

Two sessions were dedicated for IAS, one from the main plenary session and another from the parallel track – “IEEE Activities”

1. 1st September from 9.30 - 10.00AM on the topic "IEEE Industry Applications Society - Contributions for Region 10" at the plenary session conducted by Subodha Charles



2. 1st September from 15.00 - 15.30PM on the topic "Introduction to IEEE Industry Applications Society Programs" at the IEEE Activities track conducted by Dr. Hussain Mahdi

Dedicated promotional booth just outside the conference venue. This was used for;

- On-site member recruitment (free IAS membership for congress delegates)
- Awareness
- Promotions/Branding

CMD offices were present at the booth to answer any questions.



## Multicultural Video Contest

- Competition was announced on 25<sup>th</sup> June, 2018 and accepted submissions till 20<sup>th</sup> August.
- Maximum possible duration: 3 mins.
- 12 submissions were received.
- All videos were shown at the multicultural night and the top video, which was created by Gujarat section was awarded at the closing ceremony.



## IEEE PES Young Professionals

*Hassaan Idrees*

*IEEE PES Region 10 Young Professionals  
Representative*

The recently concluded Asia Pacific Region 10 Congress for students, young professionals, women in engineering and life members (SYWL) at the resort island of Bali in Indonesia saw heavy participation from IEEE Power & Energy Society (PES). As a silver sponsor for the Congress, PES effectively contributed to its content, the theme for which was “collaborative innovation for sustainable development”. As the oldest society of IEEE providing the world’s largest forum for sharing the latest in technological developments in the electric power industry, the focus of PES in the R10 SYWL 2018 Congress was on the scientific and engineering knowledge about electric power and energy.

As the PES Young Professionals representative in Asia Pacific, Hassaan Idrees spoke during the plenary sessions on the Grand Challenges of Engineering in the 21<sup>st</sup> century, and how IEEE is playing a part in tackling these challenges. This session took inspiration from the challenges, identified by the National Academy of Engineering (NAE) and an international group of leading technological thinkers, being faced by humanity in the 21<sup>st</sup> century, where engineering has a role to play. The session started off with the advancements engineers made in the 20<sup>th</sup> century, revealed how important solving these game-changing challenges was, and pointed out how IEEE is contributing in making sure these issues are effectively tackled. In its quest to improve the planet, IEEE & PES are doing their bit to securing the cyberspace, to making solar energy economical, to reverse engineering the brain and much more, all the while improving life on the planet.

During the session on expanding PES Membership and Recruitment, the focus was on students, young professionals and women in the field of power and energy, presented by John Benedict Boggala, Hassaan Idrees and Celia Shahnaz, respectively. This was a highly well received session, as the three speakers spoke about the work being done by the Society for students, young engineers and women for providing more opportunities for research in energy and power systems, the conferences and

journals of PES, grants and sponsorship opportunities offered by PES, the standards developed by the Society that guide the development and construction of equipment and systems, and the waves being made for educating members of the industry and the general public. It was mentioned how the members of PES are leaders in their fields, and how they derive substantial benefits from involvement with this unique and outstanding association.

The Congress also offered PES with a constant physical presence, as a booth was provided to PES to spread their message to attendees and guests throughout the three-day event, where a number of interested people asked about PES, funding and membership activities. This Region-wide Congress provided PES with the perfect opportunity to make an impact to the leaders of tomorrow, both in Asia and in the wider world.



*Hassaan Idrees speaking on the Grand Challenges of Engineering and the role of IEEE & PES.*

## IEEE COMSOC Young Professionals

*Shasank Gaur & John Benedict*

The IEEE Region 10 Congress saw a participation of about 450 delegates from various sections in the region and ComSoc had an significant impact in the minds of students and Young Professionals there. The society was the silver sponsor of the congress and had a dedicated stall at the congress where we had a lot of footfall in terms of curious participants looking for more information about the society. ComSoc was represented by Shashank Gaur and volunteers John Benedict Boggala and Hamza Ihtisham who shared their experiences with ComSoc as a student member and YP over the course. The team also took questions from the students who were present at the congress and helped them with resource materials for most efficient utilization of their ComSoc membership.



## How IEEE Add Value to the Millennials in Industry 4.0 + IEEE Newsletter

*Ewell Tan*

*Project Manager, IEEE Asia-Pacific Limited*

By 2030, more than 75% of our workforce will be dominant by the Millennials who born after 1980s. IEEE, being the trusted 'voice' for engineering, computing and technology information around the globe, is ready to bring values to the young populations in this ever-changing environment.

Ms. Ewell Tan, the Project Manager from IEEE Asia-Pacific Limited was delighted to share with the participants of R10 SYWL congress on how IEEE can add value to the Millennials in Industry 4.0.

We are aware of many challenges in today's world, which is driven by digital transformation and innovation. Revolutions can be disruptive, to get ourselves ready, we need to equip with knowledge and tools to stay relevant. By getting yourself involve in the IEEE family and enriching your IEEE experience, you get to explore the vast opportunities and stay connected with the global networking platform provided by IEEE. This sharing session with the participants were exciting and rewarding.

## IEEE R10 Strategic Planning: Entrepreneurship Catalyst Workshop

*Rajnish Gupta*  
*IEEE R10 Strategic Planning (2017-18)*

In line with the mission of R10 Strategic Planning Committee to create an entrepreneurial ecosystem in R10, the third Entrepreneurship Catalysts Workshop was organized on 29<sup>th</sup> August, 2018 in conjunction with SYWL Congress.

The objective of the workshop was to bring together representatives (who are active in conducting entrepreneurial activities in their respective sections -Catalysts) from few R10 Sections to discuss about the challenges in creating entrepreneurship culture and how IEEE can overcome them.

This workshop was attended by 13 members from the following 11 sections.

Bangladesh	Japan Council	Singapore
Hyderabad	Lahore	Tokyo
Islamabad	Madras	Victoria
Indonesia	Malaysia	

Some of the salient features discussed and agreed at this workshop are listed in the following.

- Institute an Award for Entrepreneurship in R10
- Create the R10 Website on Entrepreneurship which will include elements such as Jumpstart Framework, DMP, Startup Story, etc.
- Explore Govt. Schemes and collaborate with other Startup Communities
- Organize Workshops on DT/Business Modelling
- Organize R10 Start-up Boot Camps



Entrepreneurship Catalysts Workshop Participants at the Venue



Participants Discussing Entrepreneurial Issues

## **IEEE Educational Activities: Teacher in Service Program (TISP)**

*Zuhaina Zakaria*  
*IEEE R10 Educational Activities Coordinator*  
*(2017-18)*

In conjunction of IEEE R10 SYWL Congress, a Teacher in Service Program (TISP) Workshop was organised on 30<sup>th</sup> August 2018. The event was a collaborative event between IEEE Educational Activities Board with IEEE Region 10 Educational Activities and IEEE Indonesia Section. The workshop aims to provide training to local primary and secondary school teachers of the use of engineering, design & technology hands-on activities in the classroom. At the same time, the training also provides IEEE volunteers on how to begin TISP in their local section and collaborate with their local pre-university community

The workshop is hosted by Muhfizaturrahmah, Educational Activity Chair, Indonesia Section while the training sessions were facilitated by Supavadee Aramvith, Chair for IEEE EAB Pre-Education Coordination Committee and Zuhaina Zakaria, IEEE R10 Educational Activities Coordinator.

The workshop was attended by 35 IEEE Volunteers and 5 teachers from local schools. Two simple lesson plans i.e. 'Working with wind energy' and 'Making your arm robot' were introduced to the participants. They later formed a group in a hands-on session to design and build-up a wind turbine and robot arm in using simple materials such as plastic cups, craft sticks, paperclips, wood dowels and cardboard.

In addition, this TISP workshop also provided a discussion platform among participants and instructors on how to implement this programme in their local area. In the meantime, it can boost the interest plus encourages pre-university students to pursue STEM-related careers. Based on feedback, participants were satisfied with the workshop and they are keen to continue this activities with their local sections and schools respectively.



## IEEE R10 Mini EXCOM Meeting

In conjunction with the R10 SYWL congress, a mini R10 EXCOM meeting lead by R10 Director, Prof. Kukjin Chun, was held on 1 September 2018.

A total of 17 R10 EXCOM members and 2 IEEE Staff had participated in this meeting to discuss about the strategies of Section performance evaluation and had a status update of various R10 projects.

It was a productive meeting and we ended the meeting with a nice photo shot in front of the photo booth at R10 SYWL congress.”



## Awarding Night and Cultural Night

Awarding Night was held on 31 October 2018 announced by R10 Award & Recognition Committee Chair 2018, Prof. Elmer Dadios, and R10 SYW Coordinator.



*Group Photo of Awarding Night*

IEEE Region 10 SYWL Congress also hosted a Multi-Cultural Exhibition on the evening of 1st September. All IEEE Section which was represented at the Congress was invited to put up a stall and show their activities and culture. IEEE Region 10 Director, IEEE President, and all the congress participants went around the tables. The tables/stalls were judged and the top 2 tables/stalls were awarded. This exhibition was followed by a Multi-Cultural Performance. Those event has gathered a lot of attention and we had witnessed a variety of performances from everyone. Dress code for the multicultural night was a traditional dress of each country.

