



IEEE R10 TODAY



„ JULY ISSUE „

IN THIS ISSUE

National Electronics Olympiad

FETEX'17

Smart Energy-Building Power Apps

Asia Pacific Microwave Conference 2017

5th IEEE R10 Humanitarian Technology Conference

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1. IEEE SIGHT

Involving Students to Monitor Road Traffic and Prevent Accidents

Joseph Vincent Jain

Chair, IEEE Madras Section SIGHT

A Seminar on Involving Students to Monitor Road Traffic and Prevent Accidents was organized by IEEE Madras Section SIGHT in association with AVCE Student Branch of IEEE and Kanyakumari District Athletic Association on the 06 March 2017 at Nagercoil. The main aim of the seminar is to create awareness to the students about how accidents are occurred and make the students to involve in monitor road traffic to prevent accidents. Shri. Gop, DSP, Kanyakumari, Shri. Rajinikanth, RTO, and Shri. Arul Sekar, SI Traffic, Nagercoil are attended the seminar and given special classes on various subject connected with road accidents, motor vehicle act, provision for penalty etc. A special video clipping of the different types of accidents due to signal violation, wrong turn, over speeding, rash driving, cell phone on road, jaywalk, boarding, de boarding on from moving bus are also shown. A team from Emergency Ambulance Service made a demo.



Bringing light to dark –changing lives for the better

Hassaan Idrees

IEEE Karachi Section SIGHT Chapter

IEEE Karachi Section SIGHT Chapter focuses on delivering reliable access to health and energy. In 2016, the Chapter initiated collaboration with AWARE, an NGO working in Sindh to solve problems at micro level. Volunteers from the Chapter conducted site assessment visits with AWARE in late 2016 to see how they can help the underserved communities. This led to the start of a new project to develop renewable energy systems with technical



guidance from senior patrons of IEEE Smart Village. By early 2017, survey results were compiled, technical designs were evaluated and a comprehensive plan was shared with the SIGHT committee for approval. Within a few months the Chapter funding was approved, and as of June 2017, plans are well underway for procurement and installation of solar home systems that can light up homes to allow children to study in evenings, and enable businesses to be conducted for longer hours.

5th IEEE R10 Humanitarian Technology Conference (R10-HTC)

Dr. Shaikh Fattah & Dr. Quazi Khosru

General Chairs, IEEE R10-HTC 2017

ROSPECTIVE authors are cordially invited to submit paper(s) in IEEE R10-HTC 2017 which is one of the flagship conferences of IEEE R10. The theme of the conference is “Smart Technologies for Humanity” and its scope includes wide areas of science and engineering with a target to advancing humanitarian technologies. All accepted and presented papers will be submitted to IEEE Xplore. A large number of Partial Travel Grants are available ranging from 50 to 300 USD.

Details: <http://r10htc2017.com/>

2017 International HT Project Competition (IHTPC) will be held within the conference, which is financially sponsored by IEEE HAC and offers 3,000 USD Awards/Travel-Grants.

Details: <http://r10htc2017.com/ieee-ihtpc/>

We are planning to celebrate commencement of the 25th Year Celebration of IEEE Bangladesh Section and ending of 50th Year Celebration of IEEE R10 on 22 Dec. (Friday). The weather in December is very comfortable and hope you all will enjoy the natural beauty of Bangladesh.

Involving Students to Monitor Road Traffic and Prevent Accidents

Joseph VincentJain

Chair, IEEE Madras Section SIGHT

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Humanitarian Technology Awareness Session of IEEE BDS HAC

Farshina Nazrul

IEEE BDS HAC

Md. Zakaria Haider, Humanitarian Activities Coordinator, IEEE Bangladesh Section was the keynote speaker of the program. His speech covered different activities of IEEE BDS HAC and the way of taking a project from idea to implementation. As a part of creating awareness and involving non-student branch members of IEEE Bangladesh Section with humanitarian technology, IEEE BDS HAC has organized one of their ongoing awareness sessions in Varendra University, Rajshahi which was inaugurated by Dr. Nurul H. Choudhury, Pro Vice Chancellor of Varendra University. Exciting promotional kits were given among the participants.



Professional talk on “Smart City – A Citizen Perspective”

Farshina Nazrul

IEEE BDS HAC Newsletter Coordinator

The keynote speaker of the program was Mr. Bhudeb Chakravarti, Senior Member, IEEE, Honorary President, Centre for Development of Excellence and Chair, SIGHT, IEEE Hyderabad Section, India. He is pioneer in designing development plan for smart city initiatives in India. Dr. Celia Shahnaz, Professor, Dept. of EEE, BUET and Coordinator, SIGHT FLASH-Bangladesh Section inaugurated the event. The discussion was followed by very informative and interactive question and answers sessions. Concluding the event, On behalf of IEEE Bangladesh Section



Dr. Celia Shahnaz -Vice Chair (Activity) and Md Zakaria Haider – Humanitarian Activities Coordinator presented the keynote speaker with tokens of appreciation as well as thanked the speakers, guests and participants for their active participation.

2. TECHNICAL ACTIVITIES

Machine Learning Applications

Snehanshu saha
PESIT South campus



Theory and practice in Machine Learning assumed importance among Industry and academia. The workshop on Machine Learning conducted at PES Institute of Technology, South Campus, Bangalore aimed to capture the spirit. The workshop spanned 20 hours with 6 hours dedicated to hands on handling of data using python. The workshop, conducted by Dr. Snehanshu Saha, Professor in the Department of Computer Science and Engineering and Executive Council member,

Computer Society, IEEE Bangalore Section focused on theory and applications of Bayesian learning. The following topics were covered: Bayes' Rule, Naive Bayes Classifier, Minimum Error Rate Classification, Discriminant surfaces, Normality of features and Shapiro Wilks test, Fat Tail modelling and Maximum Likelihood Estimation. Case studies such as Fallacy of Binarization doctrine in Internationality classification of Scientific Journals and Bayesian Methods in Astronomy were discussed.

STEM Educational Workshop

Yogeswaran Mohan
IEEE EMBS Executive Committee

UNIVERSITY Tunku Abdul Rahman (UTAR) together with the support of IEEE Engineering in Medicine & Biology Society (IEEE-EMBS) Malaysia Chapter have organized a STEM Educational Workshop titled “A Biomedical Engineering Inspired STEM Project for Secondary Schools - Arduino Pulse Sensor” in Kuen Cheng High School on Thursday 15th June 2017. The aim of the workshop was to provide the opportunity to the secondary students to discover their interest and talent for biomedical engineering by providing them the early exposure to electronics and programming involved in this field. The students were truly excited being able to build the circuit and perform



simple coding to get the sensor to detect the pulse. Students showed their interest by posting questions to the lecturers on the workshop. The event ended successfully with great remarks from the students and the teachers who participated the workshop.

3. INDUSTRY RELATIONS

Industry welcomes IEEE to hear about it

Sudarshan Dahal

IEEE Queensland Section

Powerlink Queensland gathered on mass last month to hear about the potential future of battery storage systems.

Energy Queensland Principal Engineer Steven Humphries delivered a presentation outlining their innovative trial on battery energy storage systems. His talk highlighted how careful organisation of grid scale battery systems can deliver benefits to both utilities and customers. Industry collaboration is the key however, to their successful deployment.



The seminar was sponsored by IEEE Queensland as a part of membership development activity. Dr Sudarshan Dahal, the membership development chair of IEEE Queensland Section highlighted the benefits of IEEE memberships and elaborated how IEEE can bring various resources both for industry and individuals. IEEE Queensland Section Chair, Dr Daniel Eghbal answered a number of queries from attendees about IEEE and its activities in Queensland.

4. STUDENT ACTIVITIES

IEEE Supports Young Engineering Students

Sudarshan Dahal

IEEE Queensland Section

IEEE sponsored the prize for the first-year electrical engineering student demo project competition held in May 2017 at the University of Queensland. The completion was to build a robot detecting radioactive waste. This was one of the highly impressive student activities helping to flourish the innovation through team projects among the early year engineering students. Dr Sudarshan Dahal, the membership development chair from IEEE Queensland



section proactively approached the faculty and offered to sponsor the prize to encourage the innovation and promote IEEE from very early year engineering students.

The winning team of six students has been offered the prize from IEEE. The awardees have been very keen to explore the opportunities within IEEE to help them in their long-term career development.

Inauguration of IEEE Student Branch VTU Extension centre

Siddamma Biradar

VTU Extension center, UTL Technologies Ltd

IEEE student branch of UTL Technologies Ltd. executive committee was introduced and inducted at the AARAMBH 2 function held on 04th June 2017.

Dr. Raja Mohan Rao, Chief guest, Chairman UTL Group Companies, Sri. J. Srinivas Raju, Divisional Head UTL Technologies Ltd., Dr. Siva S. Yellampalli, Principal and Branch Mentor, Dr. P. Venkataratnam, Professor and Branch counselor addressed the gathering.



Dr. P. Venkataratnam, Branch Counselor introduced the Student branch executive committee members: Miss Siddamma, Student Chair, Mrs. Jagadish N., Vice Chair, Miss Varalakshmi y., Secretary, Mr. Goutham N. Vaidhya, Treasurer and Messrs. Snadeep T., Pallavi A., Vasanth Mundaragi and Praveena H.U., Members. Technical Presentations are made by Miss Pallavi A. on Virtual Prototyping, Mr. Sandeep T. on EMC/EMI, Mr. Gotham N. Vaidhya on Introduction to Clock Domain Crossing and Mr. Madhukar M. Vote of thanks was followed by Lunch and cultural program by Freshers.

Vacation Project Mania 8.0

Divya N Sahetya
IEEE SJCE

Vacation project mania is an annual workshop which is conducted from the past seven years. It is a two-week workshop aimed at enhancing the practical skills of students and the students are given hands-on training on the practical applications of basic electronics.



The first phase of the workshop dealt with analog electronics and practical aspects of circuit design like regulated and variable power supplies, transistors, LDR, opamps, IR, 555 Timer. And the second phase dealt with the microcontrollers. Along with these sessions VPM 8.0 witnessed guest lectures by Professor Chidambara Kalamaji from PESIT university on "COMPOSITION OF MUSIC USING COMPUTER SOFTWARE", MOBILE

ROBOTICS by Madhura and IOT by Arun from Nihon communication solutions.

VPM 8.0 ended with a competition "HACKATHON" wherein knowledge gained by the students in the workshop was tested. The event concluded with the valedictory function wherein the winners were awarded and certificates were given.

Report on FDP "Power Electronics Application in Renewable Energy"

K Porkumaran
IEEE Madras Section

The IEEE Students' Branch (05511) and Department of Electrical & Electronics of Dr.N. G. P. Institute of Technology organized a Faculty development program on "Power Electronics Application in Renewable Energy" on 22.06.2017 and 23.06.2017.

Respected Madam Secretary Dr. Thavamani D Palaniswami presided over the function. A heart-warming welcome remark was delivered by Dr. S.Jaganathan, Head of the Department, Electrical and Electronics



Engineering. The CEO, Dr. O.T. Buvaneswaran felicitated the gathering. Dr. K. Porkumaran, the Principal, who always takes initiatives to make our young engineers experience engineering, enthused the students.

The chief guest of the day was Mr. K.Shankar, Associate Professor, National Engineering College, Kovilpatti, who took over the session on “Renewable Energy for future”. This was a fruitful opportunity for the students to grasp the importance of Renewable Energy.

Commencement of Digital Transformation in Miri, Sarawak

Sheng How Kong

IEEE Curtin Malaysia Student Branch

The first Digital Maker Movement in Sarawak was launched during IEEE Digital Maker Expo, a 2-day National level event held by IEEE Curtin Malaysia SB. With aims to promote STEM education, transform digital user to digital maker and to create a Maker Community in Sarawak, this expo successfully attracted over 800 visitors. A Digital Maker Space equipped with multipurpose resources such as lab facilities, measuring instruments, computers and project tools was also set up in Curtin Malaysia to facilitate digital making and serve as centres for educators, students and industry experts to converge and network. This expo had also attracted industries to showcase and demonstrate their products to inspire students and innovators and establish MOUs with Curtin Malaysia. Volunteerism was also promoted in this expo through the highlights of Young Innovators Challenge (YIC), Light Up Miri and Tech Makers programs.



Workshop on Basic Arduino

Mohammad Ibrahim
IEEE UAP SB

University of Asia Pacific (UAP) has organised an interesting daylong workshop on Basic Arduino. On 19 May 2017 IEEE University of Asia Pacific Student Branch and university's Project Club organised this workshop. The main objective of this workshop was to grow interest on Arduino and bring out new innovative ideas among students. At first students were given basic ideas on –What is Arduino? How it works? Etc. After that students were taught how to



connect a Temperature sensor and read temperature reading from PC. Then we taught them how to connect and LCD with the Arduino and get reading with it. Lastly students were taught how to create a digital clock with all these studies.

There were more than 65 students were presented in this workshop both IEEE members and non-members and both from EEE and CSE dept. All the students and instructors have enjoyed this event.

Report on 3rd International Yoga Day Celebration

K Porkumaran
IEEE Madras Section

The IEEE Students' Branch (05511) and Industry Institute partnership cell (IIPC) of Dr.N. G. P. Institute of Technology organized 3rd International Yoga Day on 21.06.2017.

The College celebrated International Yoga Day on 21st June 2017 with huge participation and support from the teachers, non-teaching staff and the students. Yoga master performed and taught each asana while emphasizing the role of yoga in stabilizing the body, mind and emotions.



He also insisted the importance and relevance of Yoga in the modern lifestyles

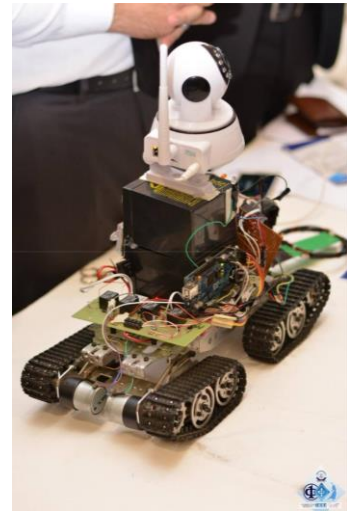
Respected Madam Secretary Dr. Thavamani D Palaniswami presided over the function. A heart-warming welcome remark was delivered by Mr. K.Subramanian, Yoga master, Dr.N.G.P. Institutions. The CEO, Dr. O.T. Buvaneswaran and Dr. K. Porkumaran, the Principal, felicitated the gathering.

Open House 2017

Muhammad Daud Bashir

Student Member and Branch Chairperson, IEEE Islamabad

IEEE Bahria University Islamabad Campus hosted its Seventh Open House on 11 May 2017, which showcased the skills of their graduating Students and provided networking platform for students and Industry leaders. It provided employers and leaders in business, industry and education sectors a first-hand chance to interact with the graduating students of Bahria. This event was being collectively organized by the faculty of Engineering Sciences which includes Department of Electrical Engineering, Department of Software Engineering, Department of Computer Engineering, and Department of Computer Science.



Open house 2017 was another success with hundreds of graduating students exhibiting more than 120 innovative projects from diverse engineering branches including software engineering, control systems, communication systems, embedded systems, robotics, radio communications and wireless communication. Renowned companies from the national and multi-national sector visited Open House as a part of university's ongoing Academics-Industry collaboration. The representatives appreciated the innovative projects designed by the students.

Workshop on LaTeX and PCB

Mahfizur Khan

Chair, IEEE RUET SB

IEEE RUET WIE Student Branch Affinity Group organized a series of workshops on PCB designing and LaTeX, participated by 60 students including members and non-members. It was an initiative to develop student's skill in Proteus software and LaTeX. The program was held on 21st – 22nd April, 2017. The workshops were conducted by Shoilie Chakma, Lecturer, Department of EEE, BUET; Treasurer, WIE, IEEE Bangladesh Section and Irtiza Haque, System Engineer, Service Operation, Grameenphone; Professional Activities Coordinator, WIE, IEEE Bangladesh Section. The participants learned about the benefit of



learning PCB designing and application of Proteus software for that purpose on 1st day. On 2nd day, participants received a strategic guideline about how to write research paper in LaTeX as well as benefit of LaTeX and its basics. The participants were provided certificates for their simultaneous participation in the workshop.

PIEAS National Olympiad 2017

Muhammad Shafay
IEEE Islamabad Section



PIEAS National Olympiad, being one of the largest events on the calendar of PIEAS, is an artistic display of science where the future tech tycoons of Pakistan can unleash their potential and is organized by IEEE PIEAS SB.

PIEAS National Olympiad, being one of the largest events on the calendar of PIEAS, is an artistic display of science where the future tech tycoons of Pakistan can

unleash their potential. Among the amazing annual series of PiON body, it proved to be a significant platform for networking for both IEEE and non-IEEE members. IEEE members from all of the three sections of Pakistan came over to attend the event. The event consisted of inciting modules and jam packed fun activities. The events like Hi -Q, Code Frenzy, Logic Crushers, Swift Wiring Clash, Leibniz of Pakistan, Roboate & 3D Modelling Competition were designed to test the capabilities of the mind. IEEE PIEAS SB, with its dedicated team and strong foundations, is known for delivering quality events ensuring that whenever a participant walks through our doors, they leave learning something new.

Learning and Innovation go hand in hand at REVA University

Dr.Kiran Kumari Patil
IEEE REVA University



Recently the Innovation Center at REVA University Organised Innovation competition “Abhigyan-2017”. This event “Abhigyan -17” was an initiative to trigger the young minds towards inventions. To nurture the ideas and build the confidence of the students we organised this event for REVA University. Students from all engineering streams participated and exhibited their innovation to the Chief Guest Smt. Roopa M. V., a prominent

scientist at ISRO, Vice Chancellor of REVA University Dr. S.Y.Kulkarni and other experts and dignitaries. Few of the very interesting multidisciplinary innovative projects developed by first year students of ECE, Computer & Information Technology and Mechanical Engineering students were displayed.

To name few Humanoid Robot, Underwater Robot, Floor Cleaning Machine, FM Radio Station, Electric Vehicle, Quadcopter heli 101, Surveillance Drone, BELLA: Home Automation with Personal Assistance, GARB-e: Smart Collection, Segregation.

Seminar on IEEE Xplore Digital Library

Sanjina Mostafa

IEEE UIU Student Branch

On 18th April 2017 (Tuesday), IEEE UIU Student Branch in collaboration with IEEE BDS, organized a seminar on IEEE Xplore Digital Library: Delivering Research better than ever, which was held in UIU premises, which was conducted by Dhanu Pattanashetti, who is the Client Services Manager at IEEE and is based out of Bangalore. The seminar kicked off with Dhanu introducing himself and giving a brief insight of what IEEE is all about before discussing the key points of the day's seminar which included vital information about time-saving features for researchers using IEEE Xplore Digital Library, building a library of articles using future reference, browsing titles by topic areas across all IEEE Xplore Content and much more!

This seminar mainly focused on final year undergraduate program students to help benefit their thesis paper writings, research, and enhancement of their presentation skills! The total no. of 25 students participated, 16 IEEE Members.



KE Campus Walk

Bisma Naushad

IEEE PES NEDUET Chapter, Karachi

The IEEE PES NEDUET Chapter, in collaboration with K-Electric (also known as KE), a Pakistani vertically integrated electric-energy corporation, initiated plantation

scheme in which a peaceful campus walk was held under supervision of Chairman IEEE PES Karachi Section, Dr. Muhammad Ali Memon, along with Faculty members and IEEE PES volunteers who accomplished the peaceful campus walk with plantation which contributed in instigation of spreading awareness about healthier and greener planet. The energetic behavior of volunteers towards serving the planet encouraged the students to enjoin them in plantation and help making planet Earth much greener and healthier place to live.



The Celebration of World Telecommunication and Information Society Day 2017

Anum Talpur
IEEE ComSoc Karachi

The Telecommunication Department, Mehran UET (MUET), Pakistan, in collaboration with IEEE-ComSoc-Karachi celebrated the World Telecommunication & Information Society Day 2017 (WTISD'17) on 17th-May-2017, under the theme of " Big Data for Big Impacts".

The chairman IEEE-Karachi, Prof. Dr. BS Chowdhry, talked about the role played by ITU in the growth of Telecom-Industry. The chief guest, Dr. Tauha Hussain, the Pro-VC MUET, discussed how data generated everyday has shifted from scale of gigabytes to exabyte/petabyte. The WTISD'17 was also enriched of two guest lectures, delivered by Mr. Farid Ghor, CTO-OSMANI, and Dr. Shahzad Nizamani, Assist. Prof. MUET.

Later, Dr. Faisal Shaikh, chairman IEEE-ComSoc Karachi, delivered vote of thanks and presented shields to speakers along with Dr. BS.



SAC Visit to DUET

Rawash Asif

IEEE Karachi Section SAC team

On 5th of April, 2017, Representatives of Students Activity Committee (SAC), IEEE Karachi section paid a visit to its newly founded student branch i.e. IEEE DUET at Dawood University of Engineering & Technology, Karachi. Student Branch Counselor, Ms. Samreen Amir and Student Branch Chairperson, Mr. Fasih Baig warmly



welcomed Mr. Shaikh Muhammad Anas, Student Section Representative (SSR) and Mr. Hesham, Project Coordinator IEEE Karachi Section. The session began with the brief introduction about IEEE. Attendees were informed about how a student branch should operate, reporting and funding opportunities available to them. Volunteers of the newly formed student branch were informed about the fellowships, grants and scholarships that IEEE provides. The session was concluded within an hour.

Volunteer Leadership Training Program 2017 by IEEE Karachi Section

Rawash Asif

IEEE Karachi Section SAC Team

Volunteer Leadership Training Program was organized by IEEE Karachi Section SAC Committee at DHA Suffa University on 22nd of April 2017.

The event started with an Introductory session, given by Shujan Akhwand Sarmad . It was continued by a session conducted by Sarang Shaikh. He asked the participants to identify the problems faced by the student branches, suggest solutions to those problems and discuss new ideas.

It was followed by a panel discussion where problems identified by the student branches were discussed. Nidal Faruq, the keynote speaker, gave a talk about selecting a career.

The Student Branch Chairs were demonstrated on how to report officers and submit reports on VTools and SAMIEEE.

Professor Shahab Siddiqui then talked about EPICS, Engineering Projects in Community Service.

Professor Parkash Lohana, Chair IEEE R10 Humanitarian Technology Activities Committee, discussed about prospects of humanitarian projects. The event was concluded with the awards ceremony.



ICICT 2017 MoU Signing Ceremony, organized at Habib University

Rawash Asif

IEEE Karachi Section SAC Team

ICICT is a biannual event and is entering its second decade of disseminating quality research in the disciplines of information and communication technologies. Papers are invited each time in the areas of artificial intelligence, robotics, social computing, wireless sensor networks, e-learning, computational science and other emerging topics. This year's conference theme was Innovative, Smart and Social technologies.

This year IBA is organizing 7th ICICT with the collaboration of IEEE Karachi Section.

For this MOU Ceremony was organized at Habib University on 2nd June 2017.

Participants of IBA: Dr Shakeel Khoja, Dr. Imran Rauf, Dr. Imran Khan and Mr. Waseem Arain

Participants of IEEE Karachi Section: Dr. B.S Chowdhry (Chair IEEE Karachi Section), Dr. Shahid Shaikh (Vice Chair Karachi Section), Dr. Sadiq Khan (Chair IEEE Computer Society Karachi Section, Dr. Perkash Lohana (Chair IEEE SIGHT Karachi Section), Dr. Muhammad Ali (Chair IEEE PES Karachi Section) and Shaikh Muhammad Anas (SSR Karachi Section)



National Electronics Olympiad – powered by IEEE GIKI SB

Shafaque Khan

IEEE GIKI SB

IEEE GIKI SB organized NEO (National Electronics Olympiad) in February'17. More than 250 students from 20 different universities and colleges from all over Pakistan choose NEO to showcase their skills across a variety of modules ranging from line tracking robots and quad copters right up to electronics and programming design. 64 robots participated in the technical category.



To cap this off, IEEE GIKI had a variety of social events in store for the participants including concerts, theme dinner and hiking. Dr Yasar Ayaz was the honorable chieft guest of the event. DHA Suffa took The NEO'17's trophy home.

NEO gave university students a chance to polish their skill set along with giving younger college students a base to build upon a passion for robotics and electronics, a testament to the values of technological advancement and ingenuity IEEE GIKI firmly believes in.

Industrial Tour Organized by IEEE NSU PES SBC

Sudipta Biswas

IEEE NSU PES Student Branch Chapter

IEEE NSU Power and Energy Society SBC in coordination with North South University and INSB conducted its very first Industrial Tour to the Tongi 80MW Gas Turbine power Station on 20th May, 2017 with a troop of 5 faculty members and 38 students. The team was led by Mohd. Azfar Nazim, (Lecturer, ECE Dept., North South University) .

The Tongi 80MW Gas Turbine Power Station was integrated in 2005. The plants executive engineers briefed the theoretical part based on which the power plant works and then the students took a whole trip around the station. The students were very enthusiastic and excited to learn about all these practically. On the tour they have seen several instruments used in pragmatic field which they used to learn in theoretical courses.



As a whole the tour provided the students of ECE department to relate the theoretical knowledge with the on-field machines and their practical applications.

5. IEEE MILESTONES

IEEE Milestones Dedication Ceremony and Commemorative Lectures

Akira Okada

IEEE Tokyo Section

The dedication ceremony for the "Map-Based Automotive Navigation System" IEEE Milestone was held on March 2, 2017 in Japan. Prof. Iwao Sasase, Chair, IEEE Tokyo Section, gave the opening address, and Ms. Karen Bartleson, IEEE President & CEO, presented a commemorative plaque to Mr. Takahiro Hachigo, President, Honda Motor Co. Ltd. Mr. Hachigo gave an acceptance speech on behalf of all who contributed toward the Milestone. After the IEEE Milestone dedication ceremony, a lecture session entitled "IEEE Milestones Commemorative Lectures" was held with 80 participants. Prof. Isao Shirakawa, IEEE Japan Council History Committee Chair, gave introductory remarks on the IEEE Milestone program. A lecture entitled "The World's First Car Navigation System, Honda Electro Gyrocom" was then presented by Mr. Tsuneo Takahashi (President, NF Corporation). The last lecture, "Honda's Connected Car Technologies", was presented by Mr. Tatsuya Kyomitsu (General Manager, Honda R&D Co. Ltd).



Invention of a Temperature-Insensitive Quartz Oscillation Plate

Akira Okada

IEEE Tokyo Section

The dedication ceremony for the "Invention of a Temperature-Insensitive Quartz Oscillation Plate" IEEE Milestone was held on March 6, 2017 in Japan. Prof. Iwao Sasase, Chair, IEEE Tokyo Section, gave the opening address, and Ms. Karen Bartleson, IEEE President & CEO, presented a commemorative plaque to Prof. Yoshinao Mishima, President, Tokyo Institute of Technology. Prof. Mishima gave an acceptance speech on behalf of all who contributed toward the Milestone.



Students Activity Committee Formation

Shubham Gupta
IEEE Bombay Section

With the growing strength of Bombay Section in terms of geography and strength of the volunteers and student branches across section it is essential to develop a particular organised structure for the student Branches and bring out all potential bearers to gain best out of IEEE which demanded us to form a body as Students Activity Committee, which has following hierarchy Execom Bombay Section, SAC Chair, Secretary, GNR, SSR, Working

IEEE BOMBAY SECTION SAC TEAM FOR THE YEAR 2017-18		
CORE COMMITTEE	WORKING COMMITTEE	DIVISION STUDENT REPRESENTATIVES
PROF. KIRAN TALELE <i>Students Activities Chair</i>	ABHISHEK TRIPATHI ANIRUDDHA TARODEKAR ANURAG JAIN CHAITANYA CHUNE GVAN PRAKASH	ANKIMA TRIPATHI <i>Amravati Division</i>
SHUBHAM GUPTA <i>Secretary, SAC</i>	JEET DAGHA NEHA SHAH NIKHIL KARANDE NIKITA AKULAWAR SARITA SINGH SOURYA NAIK SAURABH SONI SHRAVAN SHETTY SUWARNA DWIVEDI	ANKUR JAISWAL <i>Chhatisgarh Division</i>
BHAVESH CHORADIA <i>Global Network Coordinator</i>		ARCHANA TOTTEKAR <i>Goa Division</i>
VARSHA SINGH <i>Section Student Representative</i>		DIMPLE KHILWANI <i>Nagpur Division</i>
		MAYA NAIR <i>Mumbai Division</i>
		YASH JAGTAP <i>Nashik Division</i>

Committee, DSR, DAC. the section is divided into 10 divisions, D1 to D7 constituting SB's in Maharashtra, D8 constituting SB's in Goa, similarly D9 for Chhattisgarh and D10 for Madhya Pradesh. Each of these divisions is represented by a Divisional Student Representatives (DSRs). The SAC committee formation is based on outcome of three phase strategy adopted in the last two months of time. Phase-1: Application in response to "Call for SAC Team Member" Phase-2: Plan of action Phase-3- Telephonic interview. Of 100+ applicants 25 finally made to qualify

6. Young Professional Activities

Technical Writing Workshop at NIE Mysore

Ankita KS

IEEE Bangalore YP

NIE IEEE Student branch in collaboration with Young Professionals, IEEE Bangalore Section conducted a technical paper writing and publishing workshop. Enthusiastic students from in and around Mysore showed a great interest in this event.

The aim of this event was to provide impart knowledge of technical paper writing and publishing skills. The workshop also covered current scenario of research in India, factors to consider for publishing, where to publish, what is academic writing, ethics in technical writing, publishing, and many more. Since the workshop was hands-on, it helped them in knowing new platforms that they can work on.

The speaker Abhishek Appaji shared valuable resources and answered queries of the students. By the end of the workshop, all the 50 students knew vastly about technical paper writing and were confident to publish their ideas up to international standards.



A team building trek to Kuntibetta, Mandya

Ankita KS

IEEE Bangalore YP

The IEEE Bangalore Section “Team Building and Networking Program” was conducted on 5th March, 2017 at the picturesque hills of Kuntibetta, in the Mandya District of Karnataka. Among the overwhelming registrations of 150 students and young professionals, 65 were finally selected to be a part of the program.

The day started with DarshanShivakumar, YP-Vice Chair, briefing the students about IEEE Bangalore Section. The event was managed by team of young professionals and professional trainers from Mysuru. The day passed and it was time for participants to be a part of the trek which also included river crossing and rappelling. There were fun activities which helped participants to interact and share their experiences with IEEE. The YP team briefed the participants about initiatives of the IEEE Bangalore Section and the upcoming workshops, industrial visits and conferences. This event remarked an interactive and enthusiastic day which also gave each participant a bag full of memories.



7. REPORT ON CONFERENCES / CONGRESS

IEEE International Conference on Innovations in Green Energy and Healthcare Technologies

K Porkumaran
IEEE Madras Section

The pre-conference sessions were held on 16th of March 2017. The session started by welcoming all the delegates and participants. Dr. K. Porkumaran, Principal, Dr. N. G. P. Institute of Technology inaugurated the session, felicitated and honored the delegates. The fore noon sessions were taken up by Mr. J. Stephen, R & D Manager, Akas Medical Systems, Chennai, Mr. J. Visweswaran, Senior Academic Technical Consultant, NI Systems (India) Private Limited, Bangalore, and Dr. R. Karthikeyan, Co-Founder, CTO, Director, Teclever Solutions Private Limited., MedOnGo Healthcare Private Limited., InCEve Inc. Bangalore, with their lecture notes on their expertise technologies along with product demonstrations. Later on, the post lunch sessions were led by Mr. Chaitanya Srinivas Lanka, Senior Clinical Application Specialist, Restorative Therapies Group, India Medtronic Private Limited, Hyderabad, and Mr. F. Mohammed Akmal, Senior Executive, Digital Factory, Siemens Limited, Coimbatore.



2nd IEEE International Conference on the Recent Trends in Electronics, Information & Communication Technology (RTEICT 2017)

Rajendra Prasad P
Sri Venkateshwara College of Engineering, Bengaluru

The 2nd IEEE International Conference on the Recent Trends in Electronics, Information & Communication Technology (RTEICT 2017) was organised by the department of Electronics and Communication, Sri Venkateshwara College of Engineering in association with IEEE Bangalore section, Region 10 and the IEEE Computer society, Bangalore chapter on the 19th and the 20th of May, 2017.



The objective of the conference was to bring together researchers, academicians, experts and scholars to discuss, share and promote current works and recent accomplishments

across all aspects of Electronics & communication, telecommunication, electrical, computer science and information engineering.

The event began with the welcoming of the chief guests and the keynote speakers, Shri A S Kiran Kumar, Prof. L M Patnaik and Dr. Bhaktahvatsalam. After the keynote speech, the paper presentation commenced. A grand total of 1532 papers were received out of which only 458 papers accepted.

IEEE Pakistan Student/YP/WIE Congress held at FAST NUCES, Karachi, Pakistan.

Rawash Asif

IEEE Karachi Section

Persistency despite failure is the key to eventual success. From enhancement in technological information to bridging gap between students and professionals, IEEE Pakistan SYW Congress'16 was evidently "Event of the Year", successfully organized by IEEE Karachi Section, hosted by IEEE NUCES Student Branch, under the leadership of Shujaan Akhwand (Chairperson IEEE-NUCES).

The extensive Congress covered all major activities; from guiding students about scholarship opportunities worldwide, to workshops on "Internet of Things", "Implementation of Smart Grid locally", "Digital image processing", "Mobile application development" and "IEEE SIGHT".

Panel discussions on the topics "Female Engineers without aspiration are wasting seat", "Converting Challenges into Opportunities", "How Entrepreneurs Create and Innovate", "Motivation and Challenges for startup in Pakistan" were held in which participants actively voiced their thoughts.

As entertainment is substitute for joy, on all three days, sight-seeing, sufi and rap music concert, royal dinner was served for participants to unleash them with best memories.



I2ConECCT 2017

Ashwini V R Holla

Secretary, IEEE Mangalore Sub section

IEEE Mangalore subsection (MSS) conducted an intercollegiate M.Tech. project competition, at N.M.A.M. Institute of Technology, Nitte,

on 13th May 2017. The event was open for all the colleges of the districts Udupi, Mangalore, Uttara kannada, Shimoga, Coorg and Chickmagalur of Karnataka State. Two streams were identified as those belonging to circuit and non-circuit branches. In each category 3 cash prize for Rs.5000, Rs.3000 and Rs.2000 were given by IEEE-MSS along with participation certificates for all students.



The panel of judges comprised of eminent academicians and industrialists from the area: Mr. Anil Prabhu, Dr Parashuram, Dr. Ramesh Mithanthaya Dr. Nagesh Prabhu, Dr. Sreekanth K, Mr. Vaman Rao, Dr. Mallikappa. Prize winners – Miss Bharavi U and Mr. Praveen from Circuit Non-Circuit streams.

The event has been the 3rd in a series conducted in the last 3 years, giving an opportunity to Masters students to showcase their work and solicit expert advice /interaction.

C-Code 2017

Muhammad Ahsan Farooqui

Student Member and Branch Chairperson, IEEE Islamabad



A two days International Conference on `Communication, Computing and Digital Systems` organized by IEEE Bahria University Islamabad SB, IEEE WIE BUIC, IEEE CS Chapter BUIC, concluded at BU Islamabad Campus. The aim of this conference was to provide an international forum for academia, research organizations and industry to share their knowledge, experience, and contributions. The event provided a unique platform to discuss latest innovations and challenges, local as well as global, in the fields of communication, computing and digital systems.

Mr. Ahsan Iqbal, Minister of Planning and Development of Pakistan graced the occasion as a Chief Guest. While speaking to the audience, he said It is heartening to know that the C-

CODE conference – in the very first year of its launch had attracted researchers and academicians from all around the globe and received a record number of submissions in the category of technical conferences in Pakistan through Bahria University.

IEEE SBLC Asia-Pacific WG Inaugural Meeting & Standard Project Workshop

Jizhong Zhu

IEEE PES Loads Subcommittee Chair

IEEE SBLC Asia-Pacific WG Inaugural Meeting & Standard Project Workshop was held at SEPRI, China Southern Power Grid (CSG) on May 12, 2017. IEEE PES Loads Subcommittee Chair and SBLC Asia-Pacific WG Chair Professor Jizhong Zhu moderated this meeting. About 50 experts from Asia-Pacific areas attended this workshop. IEEE Standard



Association program manager Malia Zaman and Meng Zhao attended the meeting too. CSG EPRI Chairman Rao Hong had Welcome Speech. IEEE SA President Don Wright, IEEE PES President Damir Novosel and PES Technical Council Chair Miriam Sanders as well as SBLC Chair Shawn Chandler sent the congratulation letters to the Working Group. The IEEE SBLC Asia-Pacific WG workshop was finished with the huge success. As IEEE Standard Association program manager Malia Zaman pointed out at the end of workshop, “I attended many working group meetings in different countries these years. This is most successful IEEE WG meeting!”

Symposium on 3D Printing and Allied Technologies

Raunak Gupta

Advisor, WIE Affinity Group

Quantum School of Technology, Roorkee

The inaugural keynote speaker of the event Dr. Arun K. Lall presented his address on Product Development and Rapid Prototyping. He awared all the participants about the benefits of rapid prototyping and its associated techniques. He tells the participants about the various RP techniques such as Stereo Lithography, laminated Object Manufacturing, Selective Laser Sintering, Fused Deposition Modeling, Solid Ground Curing, 3D Printing and Laser Engineered Net Shaping. During the symposium Er. Ramnath Bhat makes the participants familiar with the technical and practical aspects of 3D printing. He had also printed few of the selected designs made by the participants during the symposium.

There were total 29 registered delegates for the symposium. After the symposium, an offline exam was conducted by the Skyfi Education Labs Pvt. Ltd., Bengaluru and on the basis of this exam they had provided the top 10 participants with distinction certificate.

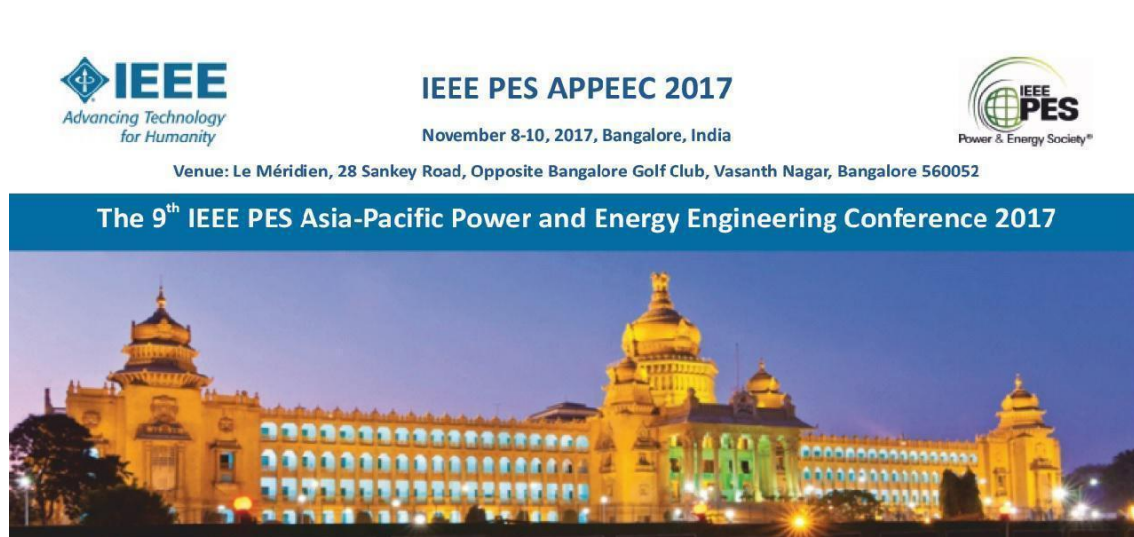


8. UPCOMING CONFERENCES / CONGRESS

CFP for Asia-Pacific Power and Energy Engineering Conference 2017 (APPEEC 2017)

Deepak Krishnan

IEEE PES Bangalore Chapter



Dates - November 8th to 10th 2017

Venue - Le Meridien, 28 Sankey Road, Opposite Bangalore Golf Club, Vasanth Nagar, Bangalore 560052

Early Bird Registration closes on September 30, 2017

Deadline for full paper submission - July 31, 2017

Registration procedure and fee details can be accessed here - <http://ieee-appeec2017.org/registration-details/>

Guidelines to sign up - <http://ieee-appeec2017.org/wp-content/uploads/Guide%20to%20Sign%20-%20up.pdf>

CFP for Asia Pacific Microwave Conference 2017, APMC2017 Kuala Lumpur

Azah Syafiah Mohd Marzuki

Executive member of IEEE Malaysia AP/MTT/EMC Joint Chapter

This year Asia Pacific Microwave Conference will be held in Renaissance Hotel Kuala Lumpur, 13-16 November 2017 with theme of "Microwaves for the Internet of Things". APMC2017 is organised by IEEE AP/MTT/EMC Joint Chapter of Malaysia, co-sponsored by IEEE MTT-S, and technically co-sponsored by EuMA and IEEE AP-S. Paper submission is accepted until 7th July 2017. See you all in multi-cultural city and food heaven: Kuala Lumpur, Malaysia!



APMC 2017
KUALA LUMPUR, MALAYSIA
November 13-16

2017 Asia-Pacific Microwave Conference (APMC2017)

13 – 16 November 2017
Renaissance Kuala Lumpur Hotel

Organized by IEEE AP/MTT/EMC Joint Chapter, Malaysia
Hosted by

IEEE Advancing Technology for Humanity
MTT-S

Technically co-sponsored by EuMA and IEEE AP-S

• Full Paper Submission : ~~20 June 2017~~ **7 July**

www.apmc2017.org

9. INDUSTRY RELATIONS

IEEE Islamabad Industrial Biennale '17

Rabia Khalid

WIE PIEAS AG, Islamabad, Pakistan

This year IEEE PIEAS SB was honoured with the hosting of IEEE Islamabad Industrial Biennale'17(IIIB'17), as endorsed by the Islamabad Section Committee. Designed to bridge the gap between industries and academia, IIIB'17 was held on 7th May, 2017 as part of the PIEAS.

National Olympiad. Comprising of a panel discussion, seminars and presentations, IIIB'17 was first of its kind. Representatives from industries introduced and promoted their motives with competent and qualified academia, who in turn put forward the issues they face in grooming and training the student body. From increasing number of internships demanded by academia to practically using book knowledge demanded by industries, IIIB'17 initiated an interaction chain with the incentive of engineering advancement. A seminar on 3D printing and its applications by MEDEngg was an interesting highlight of the event. IIIB'17 also helped the students present their projects, get it remarked and become aware of the industrial demands.



10. CHAPTER NEWS

Inaugural Ceremony of “IEEE Dhaka University of Engineering & Technology Student Branch

Sujit Roy
Bangladesh

The Inaugural Ceremony of IEEE DUET Student Branch has been observed in DUET campus on May 15, 2017. The inaugural ceremony was started by the inaugural speech of Dr. Md. Arifur Rahman, Honourable Branch Counselor of IEEE DUET Student Branch. Later, Honourable Vice-chancellor of DUET and the Chief Guest of this program, Prof. Dr. Mohammed Alauddin inaugurated the ceremony by cutting the cake. The keynote session was then presented by Prof. Dr. Muhammad Abdul Goffar Khan, Vice-Chair (Technical), IEEE Bangladesh section and Professor, EEE, RUET. As a Special Guest Dr. Celia Shahnaz, Vice-Chair (Activity), IEEE Bangladesh section and Professor, EEE, BUET joined the program over Skype and provided her valuable speech for the new branch, upcoming events, and so on. The program was Chaired by Prof. Dr. Md. Raju Ahmed, Honourable Head, Department of EEE, DUET.



The presence of Around 122 overwhelming participants made the program a successful one.

IISc installs its IEEE HKN Chapter

Ravali Pampala
Indian Institute of Science

The induction ceremony of IEEE HKN was held on 26 March 2017 at 4.00pm IST at The Electrical Communication Engineering Department, Indian Institute of Science,

Bangalore, India. The “Mu Xi” Chapter of IEEE-HKN being 253rd chapter in



the world, was successfully installed by Mr. Ramakrishna Kappagantu, IEEE R10 Director (2015-16), officially representing the IEEE-HKN Organization with the participation of the twenty inductees comprising students, faculty, alumni and invitees.

Session on Research

Tamara Ena

IEEE Student Branch University of Dhaka

In collaboration with IEEE WIE Affinity Group Student Branch DU and Electrical & Electronics Club- EEC DU, IEEEESBDU successfully organized the Q/A Session on Research on the 21st of May, 2017 at the the Department of Electrical and Electronic Engineering, University of Dhaka. The Q/A Session were conducted by Dr. Md Atiqur Rahman Ahad (Associate Professor, EEE, DU) and Dr.Sakhawat Hussain (Assistant Professor, EEE,DU). The event was attended by about 40 young enthusiasts.



The Q/A Session was targeted for students completing their bachelors or master's degree looking forward to delve into research in their fields on interest. Dr. Ahad and Dr. Hussain elaborated several aspects involved in research and also shared their personal experiences. They revealed the many challenges pertaining to research and imparted advice and steps to do accomplish quality research in the country. The session concluded with the participants attaining clarity regarding various aspects working in the field of research.



FETEX'17 IEEE International Islamic University Islamabad

Saddaqt Ali

IEEE International Islamic University Student Branch

"FETEX'17 organized by Department of Electrical Engineering, has been incredibly successful this year. The three days event was supervised by Engr. Adil Farooq and provided a platform to students to show their abilities and demonstrate their skills practically, apart from their educational carrier. FETEX'17 contained numerous interesting events such as, Robotics, speed wiring, Microcontroller interfacing, MATLAB Guru, E-Gaming, Mini cricket, futsal, and many more, in which students around 500 participated from over 20 institutes all over Pakistan participated and showed their talent and interest in their respective fields. The event also included, many useful seminars and workshops headed by professionals from different firms and institutes, who put light on career counseling and ways to achieve desired goals regarding area of study, that helped students get motivated to achieve their future destinations. Event was ended by presenting, shields and certificates of appreciations along with cash prize money to winners and runner-up's.



National Electronics Olympiad – powered by IEEE GIKI SB

Shafaque Khan

IEEE Islamabad Section

IEEE GIKI SB organized NEO (National Electronics Olympiad) in February'17. More than 250 students from 20 different universities and colleges from all over Pakistan choose NEO to showcase their skills across a variety of modules ranging from line tracking robots and quadcopters right up to electronics and programming design. 64 robots participated in the technical category.



To cap this off, IEEE GIKI had a variety of social events in store for the participants including concerts, theme dinner and hiking. DR Yasar Ayaz HOD Robotics NUST was the honourable chief guest of the event. DHA Suffa took The NEO'17's trophy home. NEO gave university students a chance to polish their skill set along with giving younger college students a base to build upon a passion for robotics and electronics, a testament to the values of technological advancement and ingenuity IEEE GIKI firmly believes in.



Seminar on “Erasmus Mundus Scholarship and Neural Engineering Scopes”

Sujit Roy

Chair,IEEE DUET Student Branch

On May 30, 2017, IEEE DUET Student Branch organized its first seminar on “Erasmus Mundus Scholarship and Neural Engineering Scopes”, at the seminar room-311, main academic building,DUET,Gazipur,Bangladesh.

The Keynote speaker of the seminar, Md Nurul Islam, Graduate Research Assistant, Trinity College Institute of Neuroscience (Ireland), conducted this seminar on two sessions. The first session was conducted on Neural Engineering Scopes and the second one on Erasmus Mundus Scholarship. In the first session, versatile information was delivered on different things like-behaviour of the neurons with the body action, external stimulating process of the injured part of the body, technologies used for visually impaired persons, brain computer interfacing and so on. And in the second session broad discussion was carried out on the Erasmus Mundus Scholarship.



The presence of around 70 overwhelming participants and their impassioned questioning and answering made the seminar a successful one.

Smart Energy-Building Power Apps

Musawer Ahmed
IEEE PES NEDUET SB

SMART ENERGY- Building Power Apps is an initiative by IEEE Power and Energy Society NEDUET to help engineers make their products, market competitive and trendy. It consists of following workshops:

Stage#1: Android application development

It was a two-day workshop on Android App Development, held in collaboration with Step In Solutions-a start-up providing services in various areas subjected to app development, where participants learnt integrating classy applications with Arduino controlled hardware.

Stage#2: Arduino

Its second stage was an 18 hours' workshop with the learning outcomes stretching from the basics of Arduino to a complex project, organized in collaboration with EDVON-Educational Revolution.

Stage#3: Integration of Arduino with Android apps

Its third stage is expected to be organized soon with much zeal and enthusiasm where the learnings of the first two stages will be simultaneously utilized and put to actual working.



STUDENT WEEK SPRING17 - COMSATS ENGINEERING FESTIVAL(CEF)

M.Saeed Ul Hassan Raza

COMSATS Abbottabad SB(STB09991)

COMSATS ENGINEERING FESTIVAL (CEF) or STW SP17 was organized at IEEE COMSATS ABBOTTABAD SB (STB09991) from 2nd May to 7th May 2017 with the objectives of fostering technical and innovative events for the better understanding of education degree courses of the students, to fulfill the goals of technological development by organizing various informative seminars and workshops and to provide a positive platform to students and teachers to explore and apply their learning in real life events. Various events in CEF includes, Logic Designer, Innovative Engineers, Mind Mashers, Talent Hunt, E-Gaming (V-CON) (COD4 -CS - FIFA - TEKKEN -NFS - DOTA), Code-A-Thon, Speed wiring, Brain Storming Events, Interactive Sessions, Workshop and Seminars. Overall CEF ended with achieving all of its objectives and targets. CEF was appreciated at Section & SBs and Region level by selection for R10 EA Support Fund 2017.



11. WOMEN IN ENGINEERING

Promotional activities roundup by IEEE WIE GIKI

Umar Khalid

IEEE Islamabad Section

WIE GIKI has always firmly believed in its core ideals of essential women empowerment and the need to act upon the as we believe women play a vital role in the fundamental development of any society.

To live up to our charter of promoting the profession of engineering in women, WIE GIKI conducted a variety of activities, both on campus and off campus. These included five mega workshops which were open for both GIKI students and outsiders, regarding objective oriented C++programming, PCB design, Raspberry Pi interfacing, quad copter design and line-tracking robot electronics. Other than that, WIE held a series of introductory sessions in local high schools in the area to promote the engineering profession and its advantages. WIE also conducted several trips to orphanages and old age homes in the region to live up to its social responsibility as professionals with a duty to give back to the community.



WIE-into-ADVENTURE

Sabita langkam

IEEE wie affinity group kharagpur section

Ever since its inception in the year 2010, IEEE WIE Affinity Group Kharagpur Section has always strived to work towards fulfilling the mission and vision of WIE. Be it Technical events, Leadership Summit, Humanitarian activities, organizing WIE's signature events IEEE STAR, we worked towards organizing a quality event for the participants. We are working towards forming a wing "WIE-into-Adventure" which would work towards raising awareness about having a good health

in varied ways possible. On March 29, 2017, we hosted a screening of award-winning films of Indian Mountaineering Foundation Mountain Film Festival 2017. A total of 14 short films were screened covering trekking, rock climbing, kayaking, mountain biking, ice climbing. Tenzing Norgay National Adventure Award winner Mr. Basanta Singha Roy, the Guest Speaker for the occasion interacted with the audiences. A couple of activities were conducted to engage the participants. It was great to see the enthusiasm in the audience.



HackFest 1.0 - Connect with Cloud!

Sidra Shakeel
IEEE WIE NEDUET AG

HackFest 1.0 is a cloud based competition to be held on 8th and 9th of August, 2017 at NED University of Engineering and Technology and is the first hackathon of its kind to be held in the varsity's premises. It will be on Xamarin with Microsoft Azure as backend.



IEEE WIE NEDUET AG has successfully organized several extraordinary events in the past, and this time we've come up with a cloud technology based hackathon namely HackFest 1.0

At HackFest 1.0, participants will develop apps on Xamarin with Microsoft Azure backend ensuring that they learn new skills, socialize with the right

people and utilize their programming genius to bring out solutions which can be implemented in the real world.

On Your Mark, Get Set, Andd Go! – the three phases of the event are structured in a way that will allow participants to master programming skills in a Microsoft powered course namely Xamarin Marathon, followed by a workshop to further hone these skills and finally the competition where they will put their new-found knowledge to test.

The competition will take place on the 8th and 9th of August at NED University of Engineering and Technology.

Two days WIE Symposium

WIE Symposium is a trademark event of IEEE RIT Student Branch WIE Affinity Group. It is held annually on the occasion of International Women's Day to celebrate the achievements made by the eminent women of our society and to inspire the young ladies to dream big, fly high and leave their mark in every field. Over 1000 students and faculties took part in the event which took place on 8th-9th of March, 2017.

The main objective of the events held under WIE Symposium is provide opportunities for women engineering students to develop and showcase leadership skills that can be nurtured in future to their full potential.



The two-days symposium started with Smt.Nalini Shekar, a social activist and entrepreneur, who co-founded “Hasiru Dala” (Green Force), Bangalore, addressing the issue related to marginalised waste pickers. She shared with us some insights into the future where the rag pickers become experienced entrepreneurs, building bio-gas generators and dry waste is collected in every corner of Bangalore.

Of the dignitaries, we had with us the very energetic Dr.Jharna Majumdar, Dean R&D, Prof. Computer Science & Engineering at Nitte Meenakshi Institute of Technology, Bangalore. She enlightened the students about the various projects she had undertaken and offered them an opportunity to work with her in her on-going projects.

Report on Women’s Day Celebrations

K Porkumaran

IEEE Madras Section

The IEEE Students’ Branch (05511), WIE and Women Development Cell of Dr.N. G. P. Institute of Technology organized a talk on 8th March 2017 to celebrate women’s day.

Dr. Anbukkani Subbian, MBBS, DGO, DNB, Fellowship in Gyn.oncology, Consultant Gyn.oncology KMCH, Coimbatore delivered a talk on Health, diet and nutrition value for women.

She spoke on Health, Diet and Nutrition and the need to develop healthy habits for a healthy mind and body. The students were appalled by the interaction and had lots of queries related to their personal health and issues. About 450 girl students Dr.N.G.P. Institute of technology and Dr.N.G.P arts and science college are benefited out of this guest lecture.



Scratch Programming for Kids

Maryam M Isa

Co-Chair WIE, Malaysia



COMPUTER system analyst which requires good programming skills is one of the most in-demand nowadays. Interest in programming should start at a young age. To instil interest in programming in children, IEEE Malaysia Women in Engineering Malaysia (WIE), and Petronita Education Bureau organized a one-day training program, “Scratch Programming for Kids” at Universiti Teknologi PETRONAS (UTP) on 6 May 2017. IEEE-RAS Malaysia Chapter was the co-sponsor of the event.

Children between the ages of 8 to 12 years old were taught basic coding using an interactive and user-friendly software called Scratch, that was developed in MIT. The participants were later given a challenge to develop their own animated story. Prizes were given to the best stories and programming skills. IEEE-WIE members from UTP acted as judges for the event.

Explore the Natural Tranquillity at FRIM

Maryam M Isa

Co-Chair WIE, Malaysia

IEEE WIE Malaysia made an effort to explore the natural tranquillity of Malaysia through Nature Trekking: Insight of Nature at FRIM activity carried out on 30 April 2017. We had the chance to explore the Kuala Lumpur ‘hidden jewel’. It is located in the hustle and bustle of Kuala Lumpur city.

During the trekking, we had the chance to view a-must-see world famous National Geographic wonder that create a unique roof to the majestic forest. During the trekking, WIE members get to know each other and excitedly looking forward for the next social activity together. Malaysia is famous for its tropical rainforests encompass 60%-70% of its total area. Forest Research

Institute Malaysia is a government agency that promotes the optimal use of the natural resources in Malaysia. IEEE WIE Malaysia made an effort to explore the natural tranquillity of Malaysia through Nature Trekking: Insight of Nature at FRIM activity carried out on 30 April 2017. We had the chance to explore the Kuala Lumpur ‘hidden jewel’. It is located in the hustle and bustle of Kuala Lumpur city. Many exciting activities are available in FRIM besides the Nature Trekking activities (www.frim.gov.my).



Workshop on PCB Design using Proteus

Samantha Lubaba Noor
IEEE WIE, Bangladesh Section



A workshop on PCB Design was organized by WIE Affinity Group, IEEE Bangladesh Section and IEEE WIE Affinity Group RUET Student Branch at Rajshahi University of Engineering & Technology. The workshop was conducted by Shoilie Chakma, Lecturer, Department of EEE, BUET; Treasurer, WIE, IEEE Bangladesh Section and Irtiza Haque, System Engineer, Service Operation, Grameenphone; Professional

Activities Coordinator, WIE, IEEE Bangladesh Section. The workshop commenced with brief background information about the importance of Proteus and its applications. The students were able to gather the knowledge of drawing and simulating circuits using Proteus which later can be applied to PCB design. 40 students including IEEE and non-IEEE members participated at the workshop and were provided certificates at the end of the workshop for their participations.

'Shape Your Career' - Interactive Talk

Oshani Weerakoon
IEEE WIE SB AG University of Colombo school of Computing, Sri Lanka

Showing the pillars of the success of the professionals in IT industry, "Shape Your Career" interactive talk organized by IEEE WIE Sri Lanka section was held on 15th May 2017 at Cake Labs in a spectacular manner. The event took place from 4 p.m. to 6 p.m. The hosting partner of this event was IEEE WIE Student Branch Affinity Group of University of Colombo School of Computing, Sri Lanka with the sponsorship of Sysco Labs Sri Lanka (previously CAKE Labs).



There were two sessions and the first session was conducted by the distinguished guest speaker, Dr. Jeewika Ranaweera, Principal Hardware Engineer of Oracle, San Jose, USA. Next session on leadership was conducted by Mr. Nirmal Kumarasiri, Director-Operations at Sysco Labs Sri Lanka. This event was mainly focused on advising the females in shaping their future career when stepping on to the industry.



'Challenges, Opportunities and Solutions for Self-driven Women Empowerment'

Zinia Zerín Khan

Program Activity Head, IEEE WIE AG SB University of Dhaka

On March 21, 2017, IEEE WIE AG SB University of Dhaka organized the 'Women Empowerment' session as an initiative to encourage all the women out there. The issue that women drop out of engineering programs at a higher rate than male students was one of the main topics of the motivational session. This session was conducted by Celia Shahnaz, former Chair of WIE BD Section, IEEE WIE R-10 Coordinator, Professor of EEE Department, BUET and current Vice Chair (Activity) of IEEE Bangladesh section.



The seminar focused on the problems women face while pursuing their goals and addressed to the solutions of those by our respected speaker. A little push and motivation are sure to drive women to dream bigger and the seminar was entirely focused on that.

In the end, the speaker was honored with a small token of gratitude on behalf of the Executive Committee of WIE AG DU.

Women's Day Celebration 2017

Raisa Fabiha

WIE AG, IEEE Bangladesh Section

WIE AG, IEEE Bangladesh Section and BUET WIE Student Branch jointly hosted 'Women's Day Celebration 2017' on 18 March, 2017 at Bangladesh University of Engineering and Technology in honor of all women working relentlessly to prove themselves and also to inspire female engineering professionals and students to materialize their dreams by overcoming social barriers.



To make this celebration more vivid and alight, Mehnaz Kabir, Group Chief Marketing and Communications Officer, RANGS Group was present as key speaker throughout the event.

Mehnaz Kabir talked about the challenges, gender inequality and orthodox perceptions towards women by sharing her stories and experiences from both personal and corporate life and mentioned about family support behind her splendid career. Expressing solidarity with women empowerment, this session aimed to motivate young women to rise and shine with their own beauty, uniqueness, talent and boldness.

25 students and professionals including 19 IEEE members participated at the event.

Workshop on LaTeX and its Application

Raisa Fabiha

WIE AG, IEEE Bangladesh Section

A workshop on LaTeX was jointly organized by WIE AG, IEEE BUBT Student Branch and WIE AG, IEEE Bangladesh Section on April 27, 2017 at the VLSI Lab of Bangladesh University of Business and Technology.

The workshop was conducted by Md. Abu Jahid, Assistant Professor, BUBT with the assistance of Farhana Afrin, Student Activities Coordinator, WIE AG, IEEE BDS. The goal of the workshop was to get the participants familiar with the tool and teach them how to write a complete technical paper using LaTeX. The key points of using LaTeX were discussed with an example containing most of the basic rules of the software. An assignment was given soon after the demonstration. At the end, some more additional techniques of LaTeX were demonstrated by the instructor so that the participants can explore the software more in future.

25 students including 20 IEEE members participated at the workshop.



Seminar on IEEE and its Role in Professional Development

Raisa Fabiha

WIE AG, IEEE Bangladesh Section

Department of EEE, BUBT organized a seminar titled as 'Seminar on IEEE and its Role in Professional Development' on 3 May, 2017 at Bangladesh University of Business and Technology; supported by IEEE Bangladesh Section, WIE AG, IEEE Bangladesh Section and Young Professionals, IEEE Bangladesh Section.

The key speakers of the seminar were Abdullah Ash-Saki, HES Engineer, Chevron Bangladesh and Student Activities Coordinator, IEEE BDS, Shams Shad Islam Khan, Junior System Engineer, Bangla Phone Limited and Chair, IEEE YP BDS and Tasnim Binte Shawkat, Lecturer, ECE, Rajshahi University of Engineering and Technology and Graphics Designer, IEEE WIE BDS.



This seminar intended to encourage all the students and faculty members on IEEE Membership and IEEE Student Branch. The invited speakers shared their knowledge, experience and ideas for getting the better output from a SB and also suggested some activities to follow for future. There was also a questionnaire session for the participants.

Workshop on Introductory PCB Design

Raisa Fabiha

WIE AG, IEEE Bangladesh Section

IEEE UAP Student Branch organized a two-hour long workshop technically supported by IEEE WIE Affinity Group, Bangladesh Section on 'Introductory PCB Design' on 20 May, 2017 at University of Asia Pacific.

This workshop was conducted by two executive members of IEEE WIE AG BDS, Shoilie Chakma, Lecturer, Department of EEE, BUET and Treasurer, WIE AG BDS and Irtiza Haque, System Engineer, WIE AG BDS. In this workshop, the participants were given hands on training on the introductory design of PCB layout using 'Labcenter Proteus' software.



Total 25 IEEE student members from both the department of EEE and CSE of UAP participated in the workshop.

Workshop on Graphics Designing

Raisa Fabiha

WIE AG, IEEE Bangladesh Section

IEEE EWU Student Branch and WIE AG, IEEE Bangladesh Section organized 'Workshop on Graphics Designing' on 10 June, 2017 at ICS Computer Lab, East West University.

The workshop was conducted by Rubia Siddiqua, Senior Executive, Supply Chain, Sanofi Bangladesh Ltd. and Graphics Designer, WIE AG, IEEE BDS. She briefed on how to use Adobe Illustrator CC 2017 and discussed about the important tools of this software. She elucidated how to draw and edit different shapes as well as how to draw free hand objects using Adobe Illustrator. She also gave an overview on how to make smarter and innovative logos. The participants made a specific logo during the workshop with her instructions. There was also a questionnaire session at the end of the workshop.



12 IEEE members and 22 non-IEEE members were present at the workshop.

12. GENERAL ARTICLES

My Journey with IEEE

Mehvish Zahoor

IEEE R10 RSR 2015-16

My journey with IEEE began in early 2008, when I took up membership as a Student Member. I was interested in volunteering and contributing at this wonderful platform from the very start, and as such I initiated the plans to form an IEEE Women-In-Engineering (WIE) Student Branch Affinity Group at our GCUF Student Branch in Faisalabad, Pakistan. Serving as its interim Chair, through a year of immeasurable hard work, sheer will and dedication, we won the “Best Affinity Group of the Year Award” from the global IEEE WIE Committee. Although now it seems really far away, it was this moment and achievement that served as a beacon of motivation for me, through all my future efforts and initiatives through all the years to come. Over the next 5 years, I went on to strive for even greater heights – organizing the very first “National WIE Summit” in 2010; founding the IEEE Pakistan WIE Forum and representing it at the 2011 IEEE Region 10 Congress in Auckland, NZ; developing WIE in Lahore Section and serving as its Chair; alongside executing a plethora of projects and pre-university programs aimed at women empowerment. For my efforts, I was awarded the “2012 Best WIE Volunteer Award” from IEEE Region 10 and the “2014 Outstanding Member of the Year Award” from global IEEE WIE Committee. Finally, in 2015, all of these preceding accomplishments culminated in my appointment as the Regional Student Representative (RSR) for R10, and thus I embarked upon a new chapter to represent the largest community of IEEE Student Members, globally, for the coming 2 years.



As the RSR, I took on my responsibilities considering my primary duty to facilitate the platform for student volunteers and to serve as their voice across the Region. I set my foremost concern to identify the core issues and problems that were being faced, starting from the basic grass root-level, i.e. the operation of IEEE Student Branches, and ending at the overall picture, i.e. the Asia-Pacific Region as a whole. Among the many initiatives taken, special importance was given on reactivating dormant/inactive IEEE Student Branches across R10. This endeavor took on the form of the “IEEE Region 10 Revamping Student Branches Project”, which consisted of the “Region 10 Mentors Forum”, the “Region 10 SSR Network” and the annual Student Branch Webinars/Twitter Chat Series.

The purpose of this project was to motivate, encourage and support Student Branches that had fallen below the active category, to revamp and resume operations. In order to realize this project, IEEE Young Professionals members and former Student Branch Officers were recruited and assigned to these Student Branches, where they augmented the role of an IEEE Mentor. Furthermore, volunteers were trained for mandatory reporting procedures within IEEE, that streamlined a number of processes and helped improve reporting procedures within both Sections and Student Branches. Prior to the start of this initiative, the Region 10 Mentors Forum team, comprising of Jibin Sabu, Mahesh R B, Aaradhya

Mehta, Mujtaba Anwaar Chaudhary, Yasitha Harshanath, Nitya Khanna, Saravana Prakash, Ali Najah Kadhim and Fatimah Abd Rahman, conducted a thorough data analysis and discovered that an estimated 25% of the Student Branches operating across R10 were now standing at zero membership counts. In some cases, we found errors in the central SAMIEEE database (such as incorrect membership counts, duplication of a Student Branch in the archive, among others). These were soon rectified with the help and support from IEEE Staff members, such as Shareyna Scott, Christine Aldridge, Keyana Tennant. To address the rest, we started corresponding and collaborating with all the parent Sections holding any dormant Student Branches, and their respective Section Student Activities Committees (SAC).

Parallel to this, in hopes of elevating the communication within the Region, Sections, and Student Branches, the Region 10 SSR Network was initiated. Section Student Representatives (SSRs) across the Region were identified and contacted. They were guided, trained and furnished on their leadership skills for performing mandatory tasks at the Section level and serving as a better facilitator for their Student Branches.



Finally, as the last component of our project, a series of webinars was introduced which mainly focused on providing information and creating awareness regarding all sorts of annual procedures and opportunities, including scholarships, awards applications, vTools reporting etc. Live Twitter Chat sessions were also organized, providing volunteers a chance to directly communicate with the Executive Members of Region 10. These sessions not only enabled a considerable increase in the number of applicants received for the volunteering opportunities announced both regionally and globally, but also developed a sense of “quality over quantity” and encouraged an impact and results driven approach among the student volunteers.

As verified by a post-project secondary data analysis, all of these measures have significantly improved membership statistics, and this has also been accompanied by a rise in the formation of new Student Branches (a total of 112 new Student Branches in 2016 alone). These measures have not only strengthened IEEE Region 10 in numbers, but have also helped secure it at a level where students and individuals see it as a source of volunteering, information and a need to survive in the ever-changing professional world of the 21st century.

In addition to the IEEE Region 10 Revamping Student Branches Project, being a part of the RSR Steering Committee, Jeffrey Eker (who was the RSR of Region 2) and I even started an initiative called the Global Student Congress. Yet, at the end of the day, my greatest pleasure was and has always been, to be the voice for IEEE Region 10 Student Members. As the RSR of IEEE Region 10, I had the immense pride and opportunity of representing our Asia-Pacific student body on many global IEEE platforms. Through sharing our Region 10 SAC initiatives in the IEEE MGA SAC meetings, I was able to attain world-class recognition for our

activities. And in turn, beyond all my accomplishments and milestones, I earned tremendous love and respect from thousands and thousands of IEEE Student Members across Region 10, which to me, is quite easily my single greatest achievement. My two years' experience serving as the RSR has perhaps been the most unforgettable and wonderful journey of my life. And I would like to convey my deepest gratitude and thanks to all those who have been part of this journey and made it truly memorable and special: the 2015 – 2016 Region 10 Director, Ramakrishna Kappagantu; the 2015 – 2016 Region 10 Treasurer and Vice Chair of Technical Activities, Takao Onoye; the 2015 – 2016 Region 10 Student Activities Chair, Dr. Rajesh Ingle; everyone at the Region 10 Student Activities Committee; all my team members, notably Prasanth Mohan, Jibin Sabu, Mahesh R B, Mujtaba Anwaar Chaudhary, Aaradhya Mehta, Yasitha Harshanath, Nitya Khanna, Ali Najah Kadhim, Fatima Abd Rahman and Anindo Saha; everyone supporting me from Pakistan, such as Ahsan Farooqui, Rabeet Sagri, Asma Sajid, Farrukh Jamal, Murtaza Hanif, Amir Zahoor, and last but not least, my dearest family & friends. Thank you for your awesome support!

IT in April - June 2017

Dr S Sadagopan

Director IIIT Bangalore

Highlights in general

- **State Bank of India (SBI)** creates history with the **merger of five smaller banks** (SBBJ, SBH, SBM, SBP and BMB) on April 1, 2017; joins the global Top 50 Club with 550+ million customers, 59,000 ATM's and 24,000 branches, 725+ million accounts and 180+ million transactions / day
- **Emmanuel Macron** elected **French President** - youngest in decades - on May 7, 2017
- **Ransomware** virus impacts computers in nearly 100 nations on May 13, 2017
- **US** pulls out of **Paris climate accord** on June 1, 2017
- **UK election** on June 8, 2017 brings Theresa May back but as minority government!
- Indian origin doctor Leo Vardakar elected Ireland's PM on June 13, 2017
- **Google** fined \$ 2.7 Billion by EU on June 27, 2017
- World's first **ATM** turns 50 on June 27, 2017
- India getting ready for **GST** on June 30, 2017 midnight

Science & Technology

- India's "**South Asia Satellite**" launched by **ISRO** on May 5, 2017; **ISRO** also launches **heavy satellite** (more than 4,000 Kg) on June 3, 2017, 31 satellites in one go including the **Cartosat 17** satellite on June 23, 2017

Products

- **Lenovo** launches **Moto G5 in India** in April 2017
- **Microsoft** launches **Windows 10S** and **Surface Laptop** on May 2, 2017
- **Nokia 3310** launched in India at a special price of Rs 3,310 on May 16, 2017
- **Google** launches **Android O** on May 18, 2017
- **Apple** announces upgrade to iOS, Mac Sierra and upgraded 10.5" iPad Pro, new iMac powered by Intel's KabyLake processors and home music system HomePod on June 5, 2017
- **Nokia 5 & Nokia 6** launched in India on June 14; actual sales from July 14, 2017
- Apple **iPhone** turns ten on June 29, 2017

Markets

- **HPE** Services and **CSC** merge to become **DXC** Technology on Apr 3, 2017
- **Tesla** market capitalization exceeds **GM** in April 2017
- **NASDAQ** touched 6,000 first time ever on April 24, 2017
- India's stock market indices BSE index **Sensex** and NSE index **NIFTY** reach record levels (29,500 and 9,100 respectively) on March 15, 2017 post State Election results; Sensex touched 21,000 in May 2017!
- **Cisco** acquires SD-WAN Startup **viptela** on May 1, 2017 for \$ 610 million, analytics startup **Saggezza** on May 4, 2017 (founded by India-born Arvind Kapur and Socka Suppiah) and AI start-up **MindMeld** for \$125 Million on May 11, 2017
- **Apple** buys AI firm **Lattice Data** on May 13, 2017 for \$ 200 million
- **Verizon** completes acquisition of **Yahoo** on June 12, 2017

- **Amazon** buys **Whole Foods** for \$ 13.7 Billion on June 16, 2017

Indian IT Companies

- **FlipKart** acquires **eBay India** operations in April 2017
- IT companies' talk of layoff causes fear psychosis with employees talking of "labour union" in May 2017
- India's IT services major **Wipro** changes its multi-colored sunflower logo after 19 years in May 2017
- Mobile wallet leader **PayTM** becomes a "payment bank" on May 23, 2017
- **Happiest Minds** acquires US-based **OSSCube** on June 1, 2017 in the digital transformation space
- **FreshDesk** (SaaS-based Sales Force automation leader) becomes **FreshWorks** from June 8, 2017
- **Tejas Networks** IPO oversubscribed 2 times on June 15, 2017

MNC Companies in India

- **Apple** Accelerator to support iOS development by Indian developers starts operations in April 2017
- **SAP** invests \$ 50 m in Bangalore innovation center; to hire 2,500 in 2 years
- **Shell** announces a new a Tech Center in Bangalore (the third center globally after U.K. and Netherlands) on Apr 1, 2017
- **Panasonic** setting up R&D unit in Bangalore in association with Tata Elxsi
- **Time** Inc., starts Center of Excellence in Bangalore in April 2017
- **Apple** starts assembling iPhone SE in Wistron facility in Bangalore in May 2017
- **Panasonic** sets up Center of Excellence in partnership with TCS in India in May 2017
- **General Motors** decides to close down India ops; **Volvo** decides to start India operations, **Kia Motors** is talking of starting India operations - all in May 2017
- **Intel** to invest ₹ 1,100 Cr in its Bangalore R & D Center as per June announcement
- **Bosch** announces IOT-focused AI Research center in Bangalore on June 18, 2017; **Bosch** to hire 3,000 engineers in India in Year 2017
- Assembled-in-India **iPhones** reach stores in India in June 2017

Education & Research

- **Indian Institute of Science**, Bangalore is the 8th among the Top 10 global small universities (Best Small Universities in the World for 2017, **Times Higher Education Ranking**); tops the **NIRF** (National Institutional Ranking Framework) 2017 list announced on April 3, 2017 for the second time
- India-born MIT **Professor Anantha Chandrakasan** named **Dean of MIT School of Engineering** in June 2017

People

- **Airbnb** CEO Brian Chesky visits India in March 2017 and talks positively about Indian market
- Prime Minister **Narendra Modi** and PayTM Founder **Vijay Shekhar Sharma** in **Times 100** "Most influential" 2017 list

- **Australian PM** and **Bangladesh PM** visit India in April 2017
- **Mukesh Ambani** in Forbes "game changers list" 2017
- **Indian PM** Modi meets **US President** Trump on June 26, 2017

Telecom

- **Tata DoCoMo** imbroglio got over by April end with High Court ruling
- **Idea** and **Vodafone** India merge on Mar 19, 2017 to create the largest telecom operator in India with 400 million customers

Start-up scene

- Mobile wallet leader **PayTM** becomes a "payment bank" on May 23, 2017
- **SoftBank** invests \$ 1.4 Billion in PayTM and joins PayTM board in May 2017
- **Airbnb** buying California-based Indian founded **Trolly** on June 16, 2017
- **Uber** founder leaves the company on June 21, 2017

Interesting mobile Apps

- Universal mobile banking App **BHIM** gets AADHAAR support; launched by PM on April 14, 2017

Interesting numbers

- India has 1170 mobile phone and 24 million landline **subscribers** on March 31, 2017 (TRAI Press release 37/2017 dated May 19, 2017)
- 17 million **Zomato** users' data was lost in May 2017
- On May 22, 2017 **Xiaomi** sells 250,000 **RedMi** 4 phones in 8 minutes!
- Delhi registered car population crosses ten million in June 2017
- Facebook user base touches 2 billion in June 2017

Professor Sowmyanarayanan SADAGOPAN is the Director of IIIT-Bangalore. These are his personal views. He has been writing about IT in India for two decades, with monthly columns in Times of India (1999 – 2003), Financial Express (2004 - 2007), IT Magazine (2008 - 2011) and IEEE India Newsletter (2012 - 2015). He can be reached at ss@iiitb.ac.in

Developing Life Support for Deep Space Missions

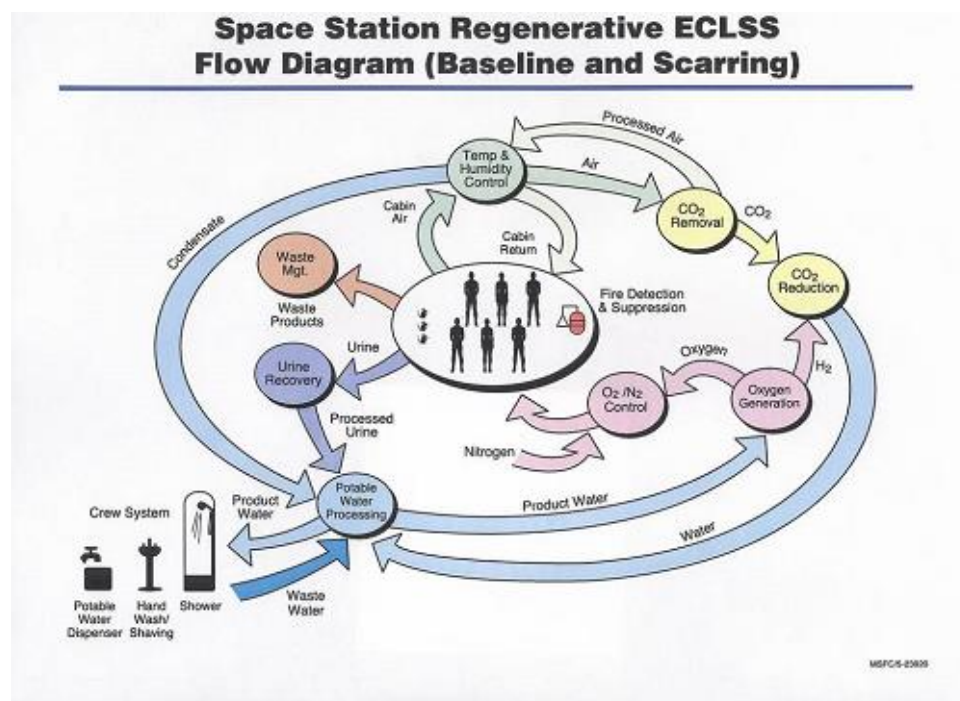
The International Space Station (ISS) is serving as a test bed for technologies that will supply crews on deep space missions with vital resources we may take for granted: oxygen and water. NASA researchers are seeking improvements to the environmental control and life support system (ECLSS).

This system currently recycles about 90 percent of the water and about 42 percent of the oxygen in the spacecraft, while disposing of the crew's solid waste and the briny liquid waste left over from recycling. Regular resupply missions to the orbiting outpost supplement the unrecovered water and oxygen and replacement components for those that fail on the system.

However, deep space missions will not have the space station's resupply capability, pointing to the need for recycling process advancements.

Engineers aim to reach the goal of 75 percent recycled oxygen for deep space missions using methods that involve the reaction of hydrogen and carbon dioxide to produce solid carbon and water, or acetylene and water. These candidate technologies go beyond the current system on the station that reacts carbon dioxide and hydrogen to produce methane and water, and would increase the current recovery to between 75 and 100 percent. The resulting water is split into breathable oxygen for the crew by the oxygen generation system, and the hydrogen is recycled back to react with more carbon dioxide.

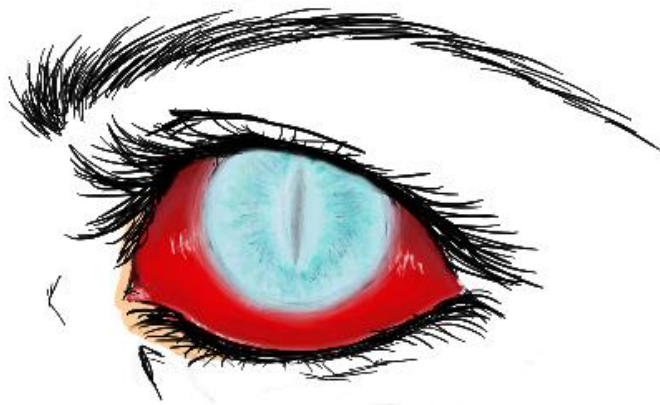
The enhanced ECLSS will be tested on the ISS for at least two to three years to prove reliability before building the system for deep space. The greater efficiency and increased reliability from improvements to the life support system will strengthen systems in low-Earth orbit and enable continued presence in space, both near and far. ([Read More](#)) Source: <http://insights.globalspec.com/>



New Spectral Eye Video Database SPEED Revolutionises Eye-Tracking

Techniques to acquire spectral data have been static for a long time – until now. Exciting and novel spectral video technologies are emerging, allowing us to extract increasingly dynamic knowledge from light. Using a spectral video device in eye-tracking, computational spectral imaging and eye-tracking researchers from the University of Eastern Finland have created a novel – first of its kind – combined spectral video/spectral image database: the SPectral Eye vidEo Database, SPEED.

The potential of spectral imaging technologies has been shown in many fields, such as medicine, life science and industry where the spectrum has been used, for example, to differentiate healthy and unhealthy tissue or separate real and counterfeit objects. However, these technologies are often too slow to capture spectral images from dynamic objects.



This created an evolutionary need for the extension of spectral imaging to the recording of spectral video. In a spectral video, each frame of the video stream contains a spectral image cube. In this way, spectral video systems capture spatial, spectral and temporal information, and combine the advantages of spectral imaging and video capture.

A recent PhD thesis completed at the University of Eastern Finland explored the potential of such spectral video technology by testing an existing spectral video system and challenging it in practical eye-tracking application. As a result, the study developed protocols for the characterization of spectral video that may serve as future guidelines on spectral video systems evaluation in this emerging field. In addition, the study used a spectral video camera to capture spectral videos of a fast-moving object: the human eye. As a very concrete outcome of the study, the SPectral Eye vidEo Database, SPEED, was born. ([Read More](#)) Source: *electronicsforu.com*

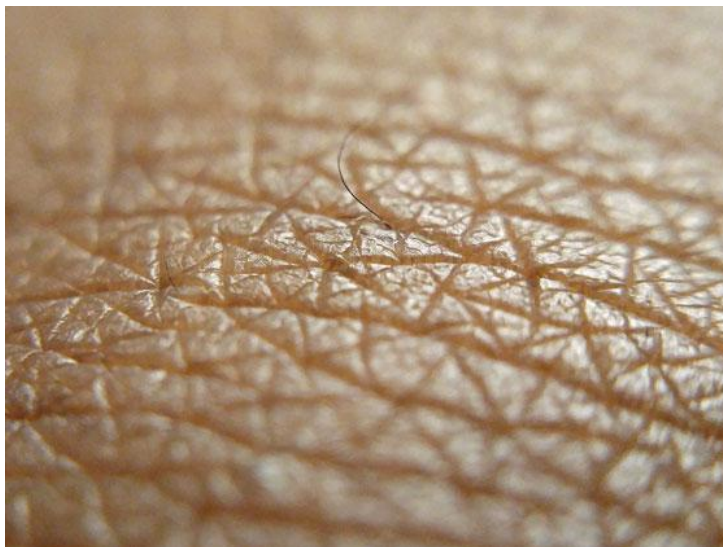
3D Printing Breakthrough Heralds ‘new era’ for Advanced Skin Models

Scientists in South Korea have come up with a new method for 3D printing human skin, which both shortens the process and reduces the cost.

Reporting their results today in the journal *Biofabrication*, the team from Pohang University of Science and Technology demonstrate a new 3D cell printing strategy, for engineering a 3D human skin model in a single step process.

Lead author Professor Dong-Woo Cho, from the university’s department of mechanical engineering, said: “Although several approaches have been explored for developing biomimetic human skin models, the present skin models, which are still based on multistep production methods using polydimethylsiloxane (PDMS) chips and commercial cell culture inserts, could be limited in making a versatile design that facilitates the development of various functional human skin models. In this regard, 3D cell-printing technique could establish a new era for advanced skin models.”

The researchers developed a



Human Skin developed using 3D cell-printing technique

hybrid 3D cell-printing system, which allows for the use of

extrusion and inkjet modules on the printer at the same time. By using the printer’s extrusion-dispensing module, they engineered a collagen-based material with a polycaprolactone (PCL) membrane.

Professor Cho said: “PCL is a biodegradable polyester that prevents collagen’s contraction during tissue maturation. Meanwhile, we used the inkjet-based dispensing module to uniformly distribute keratinocytes – the predominant cell type in the outermost layer of the skin – onto the engineered skin.” Notably, the skin model developed by the team included a supportive 3D construct all in a single process, enabling the maturation of the skin model without the use of commercial cell culture inserts. ([Read More](#)). Source: <http://iopublishing.org/>

Women Still Aren't Going into Engineering

The Atlantic Monthly recently published an eye-opening article, *Historic Rejection Letters to Women Engineers*. The letters, from the archives of the Society of Women Engineers, were mailed in 1919 in response to a survey conducted by two plucky women from Colorado.

Lou Alta Melton and Hilda Counts wanted to start an organization that supported and championed the entry of women into engineering schools. Part of their planning included corresponding with colleges of engineering across the United States. The published excerpts range from "no women now, or ever," to a positive response from the University of Michigan and Stanford. One school, Carnegie Institute of Technology (now Carnegie Mellon), was in the middle: women could study applied science but only as members of Margaret Morrison College, the women's college.

This general ban on women in schools of engineering persisted into at least the 1940s, with some exceptions. MIT's first female engineering student received her B.S. in 1903. The first



Composite picture of women engineers. Credit: NASA/JPL-Caltech

female student, a chemistry major, graduated in 1873. The University of Tennessee at Knoxville admitted its first female engineering student in 1921. Two other internationally-renowned institutions postponed coeducation until 1955 (Georgia Tech) and, remarkably, 1970 (Caltech). So, women in the U.S. did not partake of formal engineering education until

the mid-20th century. The advent of the Equal Employment Opportunity legislation and affirmative action plans during Lyndon Johnson's administration effectively required employers to hire members of protected classes, including women. Given the paucity of female engineers, finding new employees who ticked the EEO box was not easy.

Even though the number of women graduating from engineering schools has increased in the ensuing 50 years, they still constitute less than 20 per cent of the engineering workforce—13 per cent according to a Harvard Business Review article—despite producing 20 per cent of engineering graduates. Why is the needle stuck so low? ([Read More](#)) *Source:* <http://insights.globalspec.com/>

Virtual Reality now moving Towards Real-Life Scenarios

Virtual reality (VR) allows experiences from a very different perspective than we are used to. According to a user, “You come to a place that is controllable and not defined by so many unknowns.”

Molly Fosco, in an article published on www.summit.com, explains her experience of summiting Everest as, “It is an immersive VR experience that makes you feel like you are actually climbing the highest mountain in the world.” The capability to transform your surroundings just by putting on a pair of goggles and headphones to escape into the new surroundings has seen a lot of changes over the past couple of years.

As per a Google DayDream tester, the experience starts to get on your nerves after the



initial half an hour. Sore eyes, tiredness, headaches, stiff necks and eye strain are some known side effects among long-term VR headset users. Taking this into consideration, an easily-ignored warning comes with the headset, which advises you to take a 10- to 15-minute break after about 30 minutes and not to use the device if there are any mental health issues. But as stated earlier, it is easily ignored.

Another common issue is reduction in multi-tasking capabilities post usage, which could lead to increased risk in the real world.

Researchers have also found cases of nausea and disorientation caused by the vergence-accommodation conflict. Presented at the Consumer Electronics Show (CES) earlier this year, Relief band has turned out to be a quick solution for gamers. The bracelet is worn on the underside of the wrist. It balances the pulses using neuro-modulation to treat motion sickness. ([Read More](#)). Source: electronicsforu.com



Organized and sponsored by
IEEE R10 and IEEE Bangladesh Section

International Advisory Committee

The fifth IEEE Region 10 (Asia Pacific) Humanitarian Technology Conference (R10HTC) is going to be held on December 21-23, 2017 at BUET, Dhaka, Bangladesh. This is one of the flagship conferences of IEEE R10. The theme of the conference is "Smart Technologies for Humanity" and its aim is to bring together individuals conducting project and research to innovate smart technologies for humanitarian applications. Prospective authors are invited to submit full paper using the online paper submission system. There will be best papers awards and a large number of travel grants. All accepted and presented papers will be submitted to IEEE Xplore.

- Circuits & Systems
- Clean Water & Sanitation
- Climate Change & Environment
- Community Engagement & Connectivity
- Communication & Signal Processing
- Disaster Management & Poverty Alleviation
- Healthcare, Biomedical Engg. & Bioinformatics
- Humanitarian Challenges & Apps Design
- Human Computer Interaction & AI
- ICT, Cloud, Big Data, Database, Architecture
- Microwave, Antenna & RF Engineering
- Power & Energy
- Power Electronics, Machines, Drives
- Quality Education
- Robotics, Control & Automation
- Safety & Security, Networks, Software
- Semiconductor Devices & Photonics
- Technologies for Agriculture and Food
- Women Empowerment

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Category	Non-IEEE Member	IEEE Member
International Authors/Participants	US\$ 300	US\$ 250
International Student Author/Participants	US\$ 250	US\$ 200
Local Authors/Participants	US\$ 125	US\$ 100
Local Student Authors/Participants	US\$ 100	US\$ 80

Partial Travel Grants

Project Competition (IHTPC 2017)

2017 IEEE International Humanitarian Technology

Project Competition (IHTPC) will be held within the conference, which is financially sponsored by IEEE Humanitarian Activity Committee (HAC) and offers 3.000 USD Awards/Travel-Grants.

Keynote Speakers

Prof. Dr. Vincenzo Piuri, FIEEE, U of Milan, Italy
Prof. Dr. Saifur Rahman, FIEEE, VTech, USA
Prof. Dr. M. S. Alam, FIEEE, Texas A&M, USA
Prof. Dr. M. H. Rashid, FIEEE, FPU, USA

Important Dates

Special session (SS) proposals: June 30, 2017
Submission of regular/SS papers: July 20, 2017
Notification of acceptance: September 20, 2017
Camera ready submission: September 30, 2017
Author Registration: October 5, 2017

Events

- ◆ Awards/Partial Travel Grants
- ◆ IEEE IHTPC 2017
- ◆ IEEE R10 AIJEE-HUM Project Presentation
- ◆ IEEE Society Activities
- ◆ Events with YP, WIE, Students
- ◆ Tutorials and Industry Panels
- ◆ 25th Years Celebration of BDS
- ◆ Ending of 50th Year Celebration of R10





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