



# IEEE BANGLADESH SECTION NEWSLETTER

## ISSUE 3



## MESSAGES



**Dr. Celia Shahnaz**  
*Chair, IEEE Bangladesh Section*

It is of great pride, as the Chair, to witness IEEE Bangladesh Section publishing the 3rd edition of the newsletter 2018. Its prodigious to see young minds devoting their hard work to IEEE Bangladesh Section which is truly visible through the outstanding achievement in the year 2018. The newsletter portrays the backbreaking work and success stories of the section. The members of the section organized several workshops, both technical and professional, and tech-talks to guide the members and help them enhance their skills and personality in a way so that they can overcome any hurdle on their journey to be a successful engineer. I congratulate and take great pride in each and every member of the section who contributed in their best possible way on bringing the section to this height. My special gratification to the newsletter team on publishing the third edition of the newsletter.



**Dr. Farseem Mannan Mohammedy**  
*Editor*

When I am speaking about IEEE Bangladesh Section, I am not only speaking of an organization encompassing 7 Chapters and 38 Student Branches but also the perseverance, diligence and incessant activities of the executive committee members and volunteers of Chapters, Affinity Groups and Student Branches. In addition to being one of the largest IEEE based community, IEEE Bangladesh Section is a well-known bastion for aspiring and leveraging technology towards humanity. I am captivated to learn that IEEE Bangladesh Section has effectively made myriads of social and non-technical contributions.

Being the Editor of IEEE Bangladesh Section Newsletter, it gives me immense pleasure to be a part of this wonderful journey. In this issue we have tried to showcase all the exciting things happening. Thanksto all those wonderful people who have made this possible and especially my hardworking volunteers.

## EDITORIAL BOARD



**Chair:**

Dr Celia Shahnaz  
Professor, Department of EEE, BUET  
Chair, IEEE Bangladesh Section



**Editor:**

Dr Farseem Mannan Mohammedy  
Professor, Department of EEE, BUET  
Newsletter Editor, IEEE Bangladesh Section



**Associate Editor:**

Mohammad Mahinur Rahman  
IEEE BUET Student Branch

## EDITORIAL COMMITTEE MEMBERS

### Professional Members



Nurun Nahar Mondol  
IEEE BUET Student Branch



Jahan Nipa  
IEEE BUET Student Branch



Ahsan Rabby Khan  
IEEE BUET Student Branch

### Designers



Md. Tauhidur Rahman  
IEEE AIUB Student Branch



A.N.M. Nafiul Islam  
IEEE BUET Student Branch

### Content Writers



Mahima Anwar  
IEEE NSU SB



Md Sadman Siraj  
IEEE SB DU



Mohsina Sultana  
IEEE SB DU



Mumtahina Islam  
IEEE BUET SB



Saidur Rahman  
IEEE DIU SB

## 1. IEEE BANGLADESH SECTION ACTIVITIES

### A. SOCIAL EVENTS

#### IEEE BANGLADESH SECTION AWARD NIGHT AND ANNUAL DINNER



A grand award night and annual dinner of IEEE Bangladesh Section was held on 26th December 2018 at Asia Hotel and Resorts. The year-long efforts and achievements of IEEE member, volunteers and student branch leaders were celebrated and met with appreciation and recognition by the Section executives. This year the occasion was even bigger coupled with the celebration of winning the MGA Outstanding Section award and also other major awards from Region-10.

The evening was graced by the presence of Professor Dr. Celia Shahnaz, Chair, IEEE Bangladesh Section. The program was inaugurated by her welcome speech where she greeted everyone including the Nominations Chair of the section Dr. Shaikh Anowarul Fattah and other section executives who were also present.

The Section Chair also took this opportunity to thank the section volunteers and branch executives for their relentless hard work in keeping the year eventful. She also encouraged the growth of student branches that

are relatively new and dormant. She urged the importance of keeping the vision of IEEE global in mind at all times.

IEEE members and student branch representatives from all around the country were invited to join the occasion. Following the opening speech everyone joined in to have dinner. The evening offered a great opportunity for student members to interact closely with the Section Chair as well as with each other. People from different universities could connect with





each other which is in alignment with the vision of networking.

Shortly afterwards the award ceremony began. The Section Chair Dr. Celia Shahnaz along with other Section Executives handed over multiple distinct awards, the purpose of which was to deeply encourage and appreciate the endeavors of the student branches and student volunteers. The Best Volunteer Award was handed to Abir Ahsan Akib, Chair of IEEE BUET SB. Rashid Ahmed Rifat from IUB Student Branch received honorable mention in the same category. This year the best student branch award went to IEEE BUET Student Branch. Besides,

IUB Student Branch, AIUB Student Branch and NSU Student Branch each received honorable mention. The Best Branch Counselor Award went to Tanjila Farah from North South University for her valued contributions in guiding the student branch she was entitled to.

The delightful and lively evening concluded with a photo session and the promise to keep working for advancing technology for humanity and to return after another year with even more achievements and reasons to celebrate.



## B. STUDENTS ACTIVITIES

### IEEE STUDENT PROFESSIONAL AWARENESS CONFERENCE (SPAC) 2018



IEEE BUET Student Branch organized IEEE Student Professional Awareness Conference (SPAC)-one of the most prestigious flagship events of IEEE in association with IEEE Bangladesh Section, IEEE WIE BUET Student Branch Affinity Group, IEEE Industry Application Society BUET Student Branch Chapter, IEEE Electron Devices Society BUET Student Branch Chapter, IEEE Power and Energy Society BUET Student Branch Chapter and IEEE Robotics and Automation Society BUET Student Branch Chapter. The event took place on 13 December 2018 at Room No. 625, ECE Building, Department of EEE, Bangladesh University of Engineering and Technology (BUET). The event started at 09:00 AM in the morning.

IEEE Student Professional Awareness Conference (SPAC), provides a platform for students to gain more insight regarding professional life. Students can thus be more clearly informed regarding their career opportunities. It provides an excellent networking opportunity for students where they can communicate with the professionals both from industry and academia to learn about necessary skills and expertise required to achieve their career goals. The program was attended by students from Bangladesh University of Engineering and Technology

(BUET), Rajshahi University of Engineering and Technology (RUET), American International University of Bangladesh (AIUB), Ahsanullah University of Science and Technology (AUST) and Premier University, Chittagong; the newest IEEE student Branch of IEEE Bangladesh Section.

The program was hosted by Mohammad Mahinur Rahman, Treasurer IEEE BUET Student Branch and Saraf Mahnaz, Chairperson at BUET WIE Student Branch Affinity Group.

The registration and kit distribution started at 9.00





AM. At 10:00 AM Saraf Mahnaz welcomed the attendees and gave everyone a brief outline of the program schedule of the day. At 10.30 AM the first speaker of the day was Mrs. Nabila Fairuz, Integrated Network Specialist Engineer, Banglalink Digital Communications Ltd. talked about her journey after graduation and shared her personal experiences that she obtained throughout her career. From her talk the attending students were able to what they would have to face after graduation, the skills necessary to excel in the current job sector and how to excel in the corporate world. The session ended at 11.15 AM. After the first session, there was a short tea break of 15 minutes. At 11:30 am Dr. Shaikh Anowarul Fattah, SMIEEE, FIEB; Professor, Department of EEE, Director, Institute of Nuclear Power Engineering, BUET; Nominations and Appointment Chair, IEEE Bangladesh Section, 2018 Education Chair, IEEE Humanitarian Activities Committee conducted a session on “Research Methodology - Continuation of Research besides Corporate Life.” He tried to imbibe the passion for research in the attending students and inspired them to start early. In his talk he further presented the ways and tools that one would need in order to publish research papers and further develop the correct mindset required to pursue research in future. In this session there was an interactive part in which the attendees got together in groups and discussed about their research areas and interests. The session ended at 1.30 PM. There was a lunch break after this session. The first post lunch session started at 2:30 PM. It was conducted by Mr. S. M. Farhaduzzaman Azad, Sub-Divisional Engineer, P.W.D. He shared his insight regarding government jobs for engineers. He shed lights on the importance of young Bangladeshi engineers joining the government workforce. His session was lighthearted with stories from his life working as a government employee.

The next session, started at 3:00 PM was an interactive session taken by Shams Shad Islam Khan System Engineer, Bangla Phone Limited and Student Activity Coordinator at IEEE Bangladesh Section. He conducted a small interactive game, in which all the attendees were given a form with multiple blank spaces, with a heading that specified a particular criterion. Each of the blank spaces were to be filled up by the signature of any of the attendees who fulfilled that criteria. The interactive session gave the participants a platform to get to know the other participants in the room from different parts of Bangladesh.

At 3:30 PM Zafir Shafiee Chowdhury, Director, Bondstein Technologies Ltd, conducted a session on the future of technologies and inspired attendees about the potential of IoT, Blockchain technology and Experience based technology in the future. His session was very much thought provoking and he tried to bring out the visionary in everyone.

At 4.00 PM Md. Sayfullah, CEO of SinePulse GmbH, Munich, Germany, CEO of AplombTech BD, Bangladesh, CTO of Gridpal GmbH, Germany, Consultant at Intel Mobile Communication, Munich, Germany started his session on building a career abroad, away from his country, in a strange, new city and then later returning to Bangladesh to start something on his own. His session was very inspiring for young engineers dreaming to make a difference in this world. The session ended at 5.15 PM.

The next session was conducted by A R M Abdullah Rocky, IT Specialist Engineering, Banglalink Digital Communications Ltd. The theme of his session was people skills. He discussed at length not only on how to communicate with people but also how to connect to people. He shared some helpful tips for working as team and effective ways of leading a team.

The speaker of the last session of this year's SPAC was Prof. Dr. Celia Shahnaz, Professor, Department of EEE, BUET; Chair, IEEE Bangladesh Section. Her session was titled “Humanitarian Technology for



Sustainable Development Goals & quot; She discussed on the effectiveness of IEEE SIGHT as a platform for humanitarian activities and encouraged students to collaborate on various projects on the platform. Her whole session was devoted to use of technology in the humanitarian field which inspired the students to use their technological knowledge to work towards fulfilling the UN Sustainable Development Goals. She encouraged the participant to participate in the activities and projects related to humanitarian technology and discussed about the sustainable development goals and the past and ongoing projects on humanitarian technology in different parts of the world.

The conference ended with photo session and networking session. Refreshments were served to the

participants at the end.



**IEEE AIUB STUDENT BRANCH PRESENTS  
“STUDENT PROFESSIONAL AWARENESS VENTURE (SPAVE 3.0)”**



On 1st December 2018, the IEEE Student Professional Awareness Venture (SPAVe) was organized by IEEE AIUB Student Branch in association with IEEE, IEEE Bangladesh Section, IEEE Young Professionals Bangladesh, and IEEE BDS Professional Activity Committee at American International University-Bangladesh. IEEE Student Professional Awareness Activities (SPAA) are oriented to enhance the leadership, career, and professional development skills of engineering students. As a part of this endeavor, for the third time in Bangladesh, the IEEE SPAVe was presented to educate students on how to sustain a lifelong career in engineering. The flagship venture consisted of workshops, seminars and technical talks designed to build a student professionally.

The venture was inaugurated by Dr. M Tanseer Ali, Senior Assistant Professor, Faculty of Engineering, AIUB; Professional Activity Coordinator, IEEE Bangladesh Section, who discussed the necessity of these professional development-oriented ventures and participation in such initiatives could enhance a students' career. He further emphasized the importance of professionalism in a work environment and urged students to accept the change in order to

rise up the ranks at jobs.

Dr. M Tanseer Ali conducted the first session of the venture titled Ethics in Engineering & Life Long Learning. He stated that the engineers are often required to engage in negotiations, hold positions of responsibility to manage other engineers, make important decisions, write reports and ensure that work is safe, minimizing risks to people and environment. He also stated each of these requires an understanding of ethics, making ethical skills integral to engineering practice. He urged the students to





think critically about the ethical implications of what engineers do to which he concluded his talk.

The second session titled Tips & Tricks to create a lasting impression was conducted by Narmin Tartila Banu, Senior Lecturer, North South University; Community Manager, Google Business Group, she emphasized on the importance of building up a responsible social response, making a proper CV and etiquette. She mentioned different aspects of professional ethics which need to be maintained strictly in order to be successful in the long run. After the conclusion of the session, a token of appreciation was provided to Narmin Tartila Banu by Kawshik Shikder, Motivator, IEEE AIUB Student Branch; Advisor, IEEE MTT-S AIUB Student Branch Chapter; Lecturer, Faculty of Engineering, AIUB.

Mr. M S Siddique, CEO, Bangla Chemical, conducted the third session of the venture titled Roadmap to Dream Career. He talked about the necessary requirements of establishing the right career goal for oneself which include both technical and professional skills. In addition, he stated the importance of making proper decisions in order to succeed in terms of career to which he concluded his talk. Following that, Tasnuva Tasneem, Motivator, IEEE AIUB Student Branch; Coordinator, IEEE AIUB Student Branch WIE Affinity Group; Assistant Professor, Faculty of Engineering, AIUB, provided a token of appreciation to Mr. M S Siddique for his time and contribution as a speaker for this bold initiative.

Prior to the lunch break, the fourth session was conducted by Almeer Ahsan Asif, Deputy Manager, Curriculum Development, Bangladesh Youth Leadership Center (BYLC), which was based on Youth & Leadership for Career Development. It was a very interactive session as he provided a task for the participants which needed to be completed through group discussions. Based on that, he established the laws of Mover, Follower, By-Product and Leadership in managing a successful organization or institution.

He also stated how leadership skills could enhance one's career at a professional level. Following the

conclusion of his talk, a token of appreciation was provided to him by Chowdhury Akram Hossain, Counselor, IEEE AIUB Student Branch; Senior Assistant Professor, Faculty of Engineering, AIUB; Membership Development Coordinator, IEEE Computer Society BDS Chapter, and ARM Abdullah Rocky, Chairperson, IEEE Young Professionals Bangladesh; Digital Solutions & Service Specialist Engineer, Business System Management, Banglalink Digital Communications Ltd.

After the lunch break, an ice-breaking session was initiated among the participants where they communicated with each other regarding their background and corresponding work. Following that, the last session of the venture, Workshop on Business Case Solving Exercise was conducted by Mr. A R M Abdullah Rocky, Chairperson, IEEE Young Professionals Bangladesh; Digital Solutions & Service Specialist Engineer, Business System Management, Banglalink Digital Communications Ltd. He emphasized the necessary skills for engineers needed to solve business cases. In this workshop, a business case was provided to different groups of participants where they had to forecast and come up with a potential sustainable solution to overcome the problem provided in the case. Following the conclusion of his session, a token of appreciation was provided to him by Chowdhury Akram Hossain and Shams Shad Islam Khan, Student Activity Coordinator, IEEE Bangladesh Section; Mentor, IEEE AIUB Student Branch; System Engineer, Banglaphone Ltd.

The day-long venture was concluded with a closing speech from Chowdhury Akram Hossain, who acknowledged the presence of participants in such a bold initiative of IEEE. He also stated the importance of IEEE Membership with benefits and how the membership can create an impact in one's professional career. He urged the students to take part in professional awareness more in the future. The IEEE SPAVe 3.0 was concluded with a group photo consisting of the speakers, guests, faculty members, organizing team and participants.

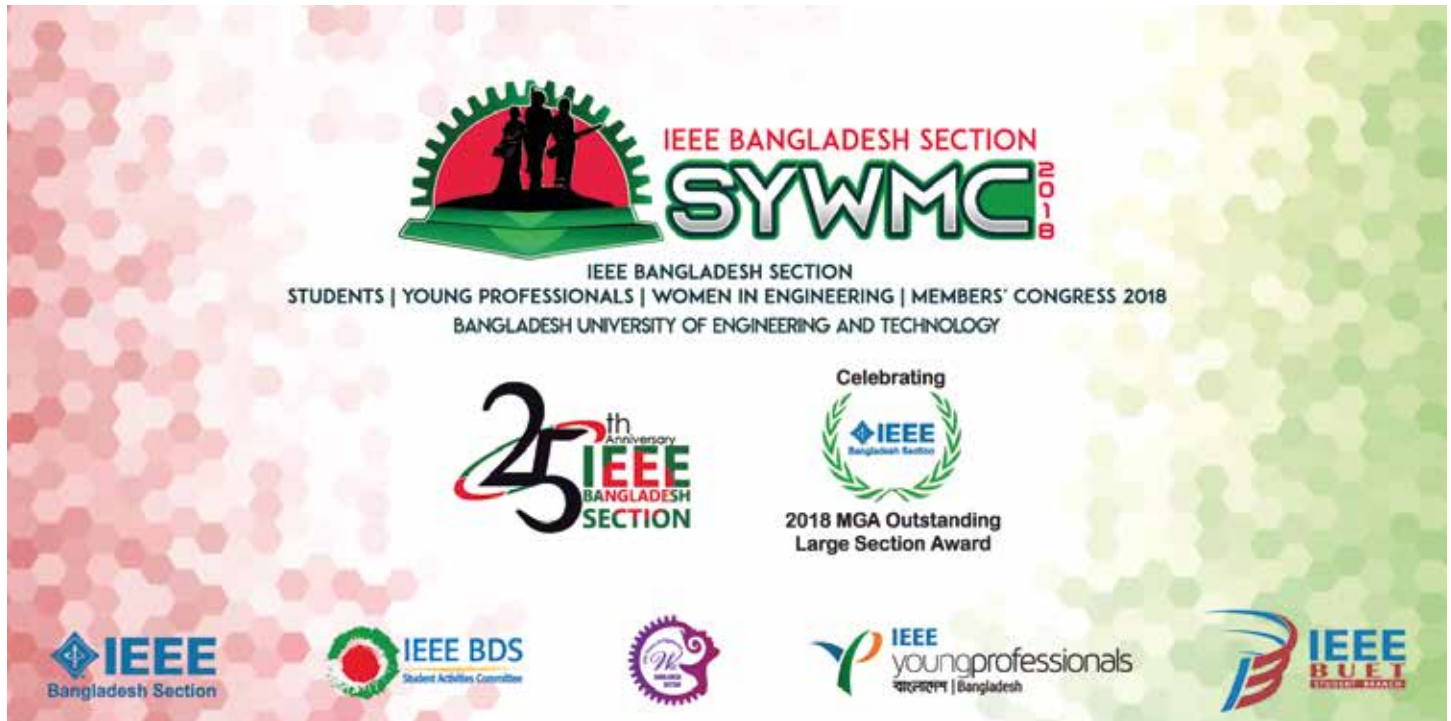


The venture was graced by the presence of Akib Jobaer Rahman, Vice-Chairperson (Activity), IEEE Young Professionals Bangladesh, Rajesh Paul, Treasurer, IEEE Young Professionals Bangladesh, Shabab Iqbal, Website Coordinator, IEEE Region 10 Student Activities Committee, Md Abdul Al Azmain, Membership Development Coordinator, IEEE Young

Professionals Bangladesh, Raihanul Haque Raihan, Event Coordinator, IEEE Young Professionals Bangladesh and Salman Farshi, Logistic Coordinator, IEEE Young Professionals Bangladesh. Dhaka Tribune and Channel Agami supported the venture as the print & online media partner and channel partner respectively.

## C. FLAGSHIP EVENTS

### IEEE BANGLADESH SECTION STUDENTS, YOUNG PROFESSIONALS, WOMEN IN ENGINEERING CONGRESS 2018



IEEE Bangladesh Section Students, Young Professionals, Women in Engineering and Members' Congress 2018, recognizable as the most enormous and celebrated event of the Section, was held on the 30th November 2018 at the Auditorium Complex of Bangladesh University of Engineering and Technology. The grand event in an auditorium packed to the rafters with more than 600 participants from as many as 32 different universities, including student members, graduate student members or Young Professional members, respected Professional Members, our honorable branch mentors and counselors and the respectable executive committee members of IEEE Bangladesh Section, was inaugurated by Prof. Dr. Celia Shahnaz, Chair, IEEE Bangladesh Section at 9 in the morning. In her opening speech, the chair of the section highlighted the Section's top events, which took places all over the year throughout the country. She mentioned about the recent awards that Bangladesh Section achieved including "Outstanding Section Membership Recruitment Performance" in 2015, 2016, 2017 and finally "2018 Outstanding Section Membership Recruitment and Retention Performance recognition" from IEEE MGA" in 2018. She talked about the admirable and massive growth of the Bangladesh section from a membership count of 56 when it was established to a wholesome number of 3,600 spanning 36 Student Branches, 9 Society Chapters

and 2 Affinity Groups (YP and WIE). The whole program was also a part of the celebration of the Silver Jubilee of IEEE Bangladesh Section.

The next two sessions were conducted by Mr. Azfar Adib, Manager of IoT & M2M Services at Grameenphone Ltd who delivered a speech about the Role of IEEE BDS in Strengthening Industry-Academia Collaboration and Mr. Shekh Tanvir Ahamed, CTO and Co-founder at Hamba Studio Ltd whose session was on Game Development as Sustainable industry Engagement before the participants and the speakers went to enjoy the first tea break of the day.





At around 11 on the clock, the session of Humanitarian Activities Committee of IEEE Bangladesh Section started. The Humanitarian Activities Committee (HAC) of IEEE is concerned with the development and fostering of sustainable technology for the support of humanity and different aspects of human life. The HAC session was conducted by Professor Dr. Shaikh Anowarul Fattah and the section student representative, Abhijeet Biswas. During this interactive session, the participants were randomly divided into 12 groups and were each assigned a case to solve by applying sustainable technology. They were asked to explain how their ideas will mitigate the crisis that was presented in the case.

This was followed by the Young Professional session which was conducted by the YP chair, Abdullah Rocky. The invited speaker, Abdullah Al Maruf, Head of Engineering, Algomatrix in his speech threw light on the importance of effectively setting goals in certain stages of life like after graduation or before getting into a university. The second speaker of the session was Mahdi Mashrur Matin, Co-founder of Obboy Labs, CA Manager & Internet Security Consultant at ICT Division, Bangladesh who also shared his thoughts and notions with the audience.

After the lunch and prayer break came to a close at 2:30, the participants came out on the premises of the BUET campus to capture a group photo. Following that, the WIE track began shortly. The Women in Engineering session had three parts, which were conducted by Runia Hossain, Director in Telecom Services of Innovative Minds Consulting Limited, IMC, Esmat Ara Sarker, Head of Technology of Financial Planning & Control in Banglalink and a panel discussion joined by Anika Sanzida Khan, Integrated Network Lead Engineer, Banglalink,

Rayeesa Nafis, Deputy General Manager of Radio Planning Technology in Grameenphone Ltd and Tasneem Tariq, Architect and Assistant Professor of Dept. of Architecture in Bangladesh University of Engineering & Technology. Irtiza Haque, Senior System Engineering, Digital and Analytics Operations, IT & Service Development, Technology in Grameenphone Ltd moderated the panel during the discussion. And soon after that, Mr. Abul Al Arabi, who has had a very promising career in robotics and currently an Executive Committee member of IEEE RAS Chapter Society of IEEE BDS took the stage and enlightened the audience with his talk on 'Era of Robotics' before the participants went down the hall to enjoy the second tea break of the day.

The infographic posters that were brought by the members of the student branches were presented to the judges during the break at 4 pm whereas the sessions resumed inside the auditorium with a talk on Demystifying Nuclear Power Technology at about the same time. The talk was presented by Sk Azmaeen Bin Amir, Former President of BUET Nuclear Engineering Club and Abrar Jahin Nafi.

The next session was by the Student Activity Committee (SAC) of IEEE Bangladesh Section. This was a very interactive and lively session. Participants had to indulge in an interesting competition in groups. The groups engaged in a friendly battle of words with each other to defend their proposed idea to solve the case which was handed to them in an earlier session. In the final stage of the competition, the respective groups displayed their ideas in the form of a theatrical drama to promote their idea in an intriguing manner.

A video exhibition was held soon afterwards. Every student branch of IEEE Bangladesh Section was asked to submit a video showing their achievements and expectations from the Section in the following



year.  
The closing of the day was preceded by a vibrant cultural session where students from 9 different institutions performed and entertained the audience.

After a day-long series of sessions the grand gathering concluded with a vote of appreciation towards the hardworking volunteers without whom this arrangement would not have been possible.

## 2. ACTIVITIES OF SOCIETIES AND CHAPTERS

### A. IEEE POWER AND ENERGY SOCIETY BANGLADESH CHAPTER

#### SEMINAR ON CHALLENGES AND OPPORTUNITIES OF HIGH SOLAR PV PENETRATIONS TO NATIONAL GRIDS

On Saturday, December 22, 2018, IEEE AUST Student Branch, supported by IEEE Power and Energy Society Bangladesh Chapter, Department of EEE of AUST and AUST EEE Society successfully organized an IEEE Distinguished Lecturer Program at Ahsanullah University of Science and Technology. The seminar was titled "Seminar on Challenges and Opportunities of High Solar PV Penetrations to National Grids".

The session was carried out by Professor Tapan Saha, who is an IEEE PES Distinguished Lecturer and Professor of School of Information Technology & Electrical Engineering, The University of Queensland, Brisbane, Australia. The seminar started at 3 pm at the seminar room of AUST.

In his presentation, Professor Tapan Saha highlighted some of the recent research activities in the area of solar PV integrations. Some research outcomes and opportunities were presented in his talk as well. The current development scenario, potential and challenges of this technology and relative comparisons with other large-scale energy sources got the focus of his speech during the speech.

The seminar was attended by ten faculty members of the Department of EEE of AUST and 135 students from six different universities.

Later in the question-answer session, the honorable speaker interacted with the participants and

answered to different questions regarding the challenges and opportunities of the High Scale solar Photovoltaic technology.

The honorable speaker was given a token of gratitude by the Dean of the Faculty of Engineering, AUST, Professor Dr. Abdur Rahim Mollah. Professor Dr. A.K.M. Baki, the Branch Counselor of IEEE AUST student Branch presented him a souvenir on behalf of IASB.

The seminar ended with a closing speech by Dr. Tareq Aziz, Chair, IEEE Power and Energy Society Bangladesh Section at 4:30 pm and all the participants were served light refreshments at the end.



#### TECHNICAL TALK SESSION ON IEEE PES HAC

On September 20th, PES approved the new PES HAC (Humanitarian Activities Committee) to increase humanitarian activities with PES volunteers across the world.

IEEE Humanitarian Activities Committee (HAC) supports the Sustainable Development & Humanitarian Technology related IEEE volunteer activities. In order to recognize PES Volunteers involved in or willing to do Humanitarian Technology Projects as well as recognize their contributions and good practices in sustainable development space, IEEE PES HAC Ambassador Program 2018 has been initiated by IEEE HAC.

So, to promote IEEE PES HAC and to share the perks of getting involved with Humanitarian Activities, IEEE

NSU PES SBC arranged a technical talk session on 17th december 2018, where the three ambassadors Sk Fakhruddin Ahmed, Takria Mahadi Aurnob and Mayesha Tafannum, representing North South University, Bangladesh, Region 10, presented a standard PES HAC presentation based on the PES



HAC ambassador online training.

The session covered all the possible outcomes and a

range of workable Humanitarian Technology projects that can be done for the betterment of Humanity and creating more power for the future.

### **POWEREXPRESS WITH MD. SHAHIDUL ISLAM**

IEEE NSU PES Student Branch Chapter organized "PowerExpress with MD. Shahidul Islam", an interactive session where our honorable guest shared his experiences and memories of his long, extra-ordinary journey as an Electrical Engineer with our members.

MD Shahidul Islam completed his Bachelors in EEE from Chittagong Engineering College in 1978. After graduation, he served for seven years at the PDB (Bangladesh Power Development Board). In 1985, He joined the Saudi Consolidated Electric Company as Relay Protection Engineer and gained extensive expertise in testing, commission and updating of relay setting and system coordination at Generation, Transmission and Distribution. In the late nineties, Mr. Shahidul became a consultant and served as senior project engineer in power systems design, eventually joining the American Embassy as Technical Director. Currently, he is the Manager of Electrical Engineering at Metropolitan Transportation Authority (MTA), New York, USA. He is in charge of updating the electrical

substations, setting and coordination of power distribution systems and monitoring all projects. His eminence in



Electrical Engineering was really inspired everyone present.

## **B. IEEE INDUSTRY APPLICATIONS SOCIETY BANGLADESH CHAPTER**

### **IEEE BANGLADESH SECTION INDUSTRY APPLICATION SOCIETY (IAS) SUMMIT 2018**

IEEE Industry Application Society Bangladesh Chapter along with IEEE Bangladesh Section organized IEEE Bangladesh Section Industry Application Society (IAS) Summit 2018 on 24 November 2018 at Robi Corporate Office, Dhaka, Bangladesh. The goal of this summit was to undertake conversation and promote collaboration between industry and academia.

The event started at 09:45 AM with the inaugural speech of Prof. Dr. Celia Shahnaz, Chair, IEEE Bangladesh Section and Chair, IEEE Industry Application Society Bangladesh Chapter. In her speech, she talked about the objective of IEEE Industry Application Society from the broader global perspective and how to achieve this objective in the local perspective. She also emphasized on Industry-Academia Collaboration and the role industry people can play to inspire current students to prepare for the fast changing 21st century industry environment. Also, industry expert are requested by her to inspire their peer colleagues to join the platform of IEEE IAS platform thus enhancing the industry membership of IEEE Bangladesh section. She has highlighted different travel grant programs, student-Faculty grant, WiE supports, Robotics, humanitarian, design contests for industry applications and also individual and Group awards for the contributions. After the inaugural speech, Mr. Sahbun Noor, Executive Engineer, System Planning, Power Grid Company of Bangladesh talked about the new ideas and the ways government is considering to change the power system in Bangladesh.

After the tea break, Safayetul Wahab Chowdhury Head of R&D, Power Transformers, Energypac Engineering Limited talked about various new transformer technologies that EnergyPac is currently bringing to the country and the current market standing of EnergyPac, not only in the local market but the as a global player altogether. Then, Shahriar Ibne Zaman Head of Digital & Adjacent Business Systems, Planning, Technology, Grameenphone talked about API and how to use API to connect in the current world of the Internet of Things. He also talked about the government biometric security regulations and how Grameenphone as the top telecommunication company in the country is following the regulations.



After the lunch, Asif Naimur Rashid, Head of Information Technology of Robi Axiata Limited about challenges and opportunities in the current volatile, uncertain, complex and ambiguous market. After that Ekhlash Uddin Ahmed CTO, Banglalion talked about the new and better LTE and 5G technology. He also talked about how his company Banglalion is planning to revamp its strategy and trying to catch the market with new high-speed LTE technology.

After the afternoon tea break, Abdus Salam Head of network solutions for Ericsson Malaysia, Bangladesh & Sri Lanka And Country Manager Ericsson Bangladesh, discussed in the deep about LTE technology and proposed LTE gigabyte and 5G technology. In the final session, Prof. Dr. Shaikh Anowarul Fattah Professor, Dept. of EEE, BUET Director, Institute of Nuclear Power Engineering, BUET, gave his presentation titled "Demystifying Nuclear Energy in Bangladesh". In his presentation, he talked about the energy crisis in Bangladesh and the whole world, how potential solutions of the crisis is failing short and why nuclear energy is needed. After the session, a group photo was taken.

Anamika Bhakta, Vice President, Technical Regulation, Regulatory Affairs at Robi Axiata Ltd, Chair of IEEE Women In Engineering Affinity Group Bangladesh Chapter and Irtiza Haque, Senior System Engineer at Grameenphone, Industrial Activities Coordinator of IEEE Women In Engineering Affinity Group Bangladesh Chapter acted as the moderator of the event.

## C. IEEE SSIT BANGLADESH CHAPTER

### WORKSHOP ON HUMANITARIAN TECHNOLOGY & SUSTAINABLE DEVELOPMENT

IEEE Bangladesh Section along with Dept. of EEE, BUET, IEEE Bangladesh Section Humanitarian Activities Committee, IEEE Society for Social Implication of Technology Bangladesh Chapter and SIGHT Group Flash jointly organized IEEE SSIT Bangladesh Chapter Workshop on Humanitarian Technology & Sustainable Development on 10 December 2018 at Bangladesh University of Engineering and Technology.

The keynote speaker of the workshop was IEEE SSIT President and Chair of IEEE Humanitarian Activities Committee (HAC), Dr. Paul M. Cunningham.

The workshop was divided into three session. At the first session, the chair of IEEE Bangladesh Section Professor Dr. Celia Shahnaz introduced the keynote speaker of the event. The keynote speaker IEEE SSIT President and IEEE HAC Chair Paul Cunningham discussed objectives, activities and the vision of IEEE HAC, IEEE SSIT and SIGHT. He also talked about innovation and social, learning, technology, business criteria of innovation.

At the second session, three invited speaker talked about their humanitarian works and experiences. The first speaker Prof. Dr. Mohammad Shariful Islam, Dept. of CE, BUET, talked about the local innovations of Bangladesh and how they were used in Natural Disaster Managements like SIDR in 2007. He also talked about local innovations in managing the recent Rohingya crisis.

Next invited speaker Sujan Daring, Manager, National Recruitment, Fellowship Recruitment and Selection,



Teach For Bangladesh talked about innovation in learning. He showed how his organization Teach For Bangladesh is encouraging young graduates from various universities to teach underprivileged children effectively and efficiently.

The last invited speaker Yameen Ahmad, Co-Founder & COO of FreeTheMind talked about his organization's work about digitized learning. In his speech, he also showed how his success represented Bangladesh in the world stage about digitized learning.

Then a tea and prayer break was announced and a group photo was taken.

After tea and prayer break, Dr. Cunningham started the interactive session with an articulation about research ethics. He also showed how he incorporates

## **D. IEEE ELECTRON DEVICES SOCIETY BANGLADESH CHAPTER**

### **NEGATIVE CAPACITANCE TRANSISTORS TO CONTINUE CMOS SCALING;**

ECE Building, BUET Date: 23rd December, 2018 ; Co-host : Dept. of EEE, BUET



### **INTERACTIVE PANEL DISCUSSION ON CAREER AND OPPORTUNITY IN VLSI INDUSTRIES;**

ECE Building, BUET Date : 11th December, 2018 ; Co-host : Dept. of EEE, BUET



## **E. IEEE SIGNAL PROCESSING SOCIETY BANGLADESH CHAPTER**

### **IEEE BANGLADESH SECTION SPS CHAPTER FORUM**

IEEE SPS Chapter forum provides an insight to the world of signal processing, its profession aspect, potential research subject and experiences of Engineers working on the field of Signal processing in Bangladesh.

The program was attended by students from Bangladesh University of Engineering (BUET), Islamic University of Technology (IUT), United International University (UIU).

The program was hosted by Dr. Shaikh Anowarul Fattah, SMIEEE, FIEB; Professor, Department of EEE. At 9:30am, the attendees were welcomed, and the keynote speaker of the event, Dr. Mohammad Alam; Dean of Frank H. Dotterweich College of Engineering, Texas A&M University- Kingsville, was introduced.

A discussion on the application of signal processing in different disaster management, possible applications and experience of working with it was done by Dr. Mohamad Alam. Dr. Alam also talked about his contributions in the field.

At 10:55am, after the talk of the keynote speaker, a



tea break was given. This lasted till 11:45am.

From 11:45am, discussion session by the young professionals on the field of SPS was initiated. A talk on the experience of working on Bangabandhu Satellite was given.

From 1:00 pm, discussions on some thesis, project

### 3. ACTIVITIES OF AFFINITY GROUPS

#### A. IEEE YOUNG PROFESSIONALS BANGLADESH SECTION

##### IEEE BDS YP MEET-UP 2018



The poster for the IEEE BDS YP Meet-Up 2018 features a large blue and green abstract graphic on the left. The text 'IEEE BANGLADESH SECTION' is above 'YPMEETUP' in large, bold letters, with '2018' in red below it. On the right, the IEEE logo is followed by the tagline 'TODAY'S YOUTH TOMORROW'S VISIONARIES'. Below this, a location pin icon is next to the text 'VENUE UIU PERMANENT CAMPUS United City, Madani Avenue, Badda Dhaka 1212.' and a calendar icon next to 'December 15, 2018'. At the bottom, logos for IEEE Young Professionals Bangladesh, IEEE Bangladesh Section, IEEE UIU Student Branch, and United International University are displayed.

On 15th December 2018, IEEE Young Professionals Bangladesh Section collaborated with IEEE UIU Student Branch to organize IEEE BDS YP Meet-Up. The members of IEEE BDS Young Professionals who were present at the day-long event were ARM Abdullah Rocky, Chairperson of IEEE BDS YP, Akib Jobaer Rahman, Vice-Chair (Activity), Rajesh Kumar Paul, Treasurer, Md. Abdul Al Azmain, Membership Development Coordinator, Raihanul Haque Raihan, Event Coordinator, Tonmoy Das, Industrial Activity Coordinator, Mahfizur Rahman Khan, Educational Activity Coordinator and Salman Farshi, Logistics Coordinator.

The main goal of this program was to bring final year students or graduate students under one roof to connect with professionals who have first-hand experience on life after a student graduates from university. The first session was conducted by Shadly Salahuddin, Embedded System Engineer, Aplombtech BD about the block chain technology and data security. Next session was conducted by Khondaker Abdullah Al Mamun, Ph.D, Associate Professor in CSE department at United International University about

the new technologies in medical science and scope of engineers. Azfar Adib, Manager, IoT & M2M Services, Grameenphone took an interactive session on social responsibilities of engineers. Zafir Shafiee Chowdhury, Diretor, Bondstein Technologies Ltd. Shared his amazing journey with VTS & VR technologies and new scope of works in these fields. Shams Shad Islam Khan, System Engineer, Bangla Phone Ltd. Took an interactive session for networking among the participants.

One of the sessions conducted during this meet-up was titled "Demystifying Nuclear Energy" and it was taken by SK Az Azmaeen Bin Amir, currently working



on metallic fuel for Sodium-cooled Fast Reactor (SFR), (SFRs) are Generation-IV reactor and Abrar Zahin Nafi, B.Sc. in Naval Architecture And Marine Engineering from BUET.

During their session, the two speakers tried to clear all types of prejudice and misconception against nuclear

power and to discuss the potential and future opportunities it represents. The speakers also spoke about the safe generation of power and the possible safety measures which will be introduced to prevent any kind of casualty in case of failure.

## 4. STUDENT BRANCH ACTIVITIES

### IEEE AIUB STUDENT BRANCH

- 1. Future Scopes of Firmware Engineering:** American International University – Bangladesh, 15th November 2018, Co-host: IEEE Computer Society AIUB SB Chapter.
- 2. Industrial Tour to "Max Power Limited:78.5MW Gas-Based Power Plant":** Ghorashal, Polash, Narshingdi, Bangladesh, 17th November 2018, Co-hosts: IEEE IAS AIUB SB Chapter, IEEE AIUB SB WIE Affinity Group.
- 3. Applications, Tools and Techniques of Data Science:** American International University – Bangladesh, 24th November 2018, Co-host: IEEE Computer Society AIUB SB Chapter.
- 4. SPAVe 3.0:** American International University – Bangladesh, 1st December 2018, Co-host: IEEE SPAVe 3.0.

### IEEE AUST STUDENT BRANCH

- 1. Workshop: Modeling Physical System in Matlab Simulink & Simpower:** AUST, 22nd December, 2018.
- 2. Seminar on High Solar PV Penetrations to National Grids:** AUST, 22nd December, 2018.

### IEEE BRAC STUDENT BRANCH

- 1. Challenges and Opportunities of High Solar Penetrations:** GDLN Centre, 18th December, 2018.

### IEEE BUBT STUDENT BRANCH

- 1. Victorious IEEE Membership Drive Week:** BUBT, 5th -15th December, 2018

### IEEE BUET STUDENT BRANCH

- 1. IEEE SPAC 2018:** ECE Building, BUET, December 13th, 2018, Co-Host: BUET WIE Student Branch Affinity Group, IEEE EDS BUET Student Branch Chapter.

### IEEE BUP STUDENT BRANCH

- 1. IEEE Student Branch Fest 2018:** Bangladesh University of Professionals – Bangladesh, 5th November 2018.
- 2. Member Recruitment & Renewal 2018:** Bangladesh University of Professionals – Bangladesh, 12th -20th December 2018.

### IEEE EWU STUDENT BRANCH

- 1. IEEE Day 2018:** East West University, 1st, 2nd and 5th November, 2018.

### IEEE EWU STUDENT BRANCH

- 1. IEEE Day 2018:** East West University, 1st, 2nd and 5th November, 2018.

## 4. STUDENT BRANCH ACTIVITIES

### IEEE IUB STUDENT BRANCH

- 1. IEEE Day 2018: IUB:** Independent University Bangladesh – Bangladesh, 15th November 2018, Co-host: IEEE CS IUB SBC, IEEE WIE AG SB IUB and IEEE IAS IUB SBC.
- 2. Inauguration of IEEE Computer Society Student Branch Chapter IUB:** Independent University Bangladesh – Bangladesh, 15th November 2018, Co-host: IEEE Computer Society Student Branch Chapter, IUB.
- 3. Industrial Tour 2018 to Khulna Shipyard and Orion Power Rupsha Ltd.:** Independent University Bangladesh – Bangladesh, 21st November 2018, Co-host: Dept. of EEE, IUB.
- 4. IEEE IUB Student Branch Election 2019:** Independent University Bangladesh – Bangladesh, 28th November 2018, Co-host: IEEE IUB SB WIE Affinity Group.
- 5. Workshop on Demystifying Nuclear Power Technology:** Independent University Bangladesh – Bangladesh, 9th December 2018, Co-host: IEEE Bangladesh Section, SAC Team.
- 6. Kaler Kontho Presents 3rd National Space Carnival 2018:** Independent University Bangladesh – Bangladesh, 15th December 2018, Co-host: IEEE IUB SB, National Space Carnival, Battery Low Interactive, Youthpreneur Network, Bengal Beats.

### IEEE JU STUDENT BRANCH

- 1. Japanese IT Job Fair:** IIT-JU, 14-11-2018.
- 2. Basic Electronic Devices and Circuit Project Competition:** IIT-JU, 22-11-2018.
- 3. BDApps Developer Workshop on Android Development:** IIT JU, 27th December, 2018, co-host: BDApps.
- 4. Cyber Security Challenge 2018 Campus ctivation:** Math & Stat Gallery JU, 13th December, 2018. co host: Advanced Technology BD.

### IEEE JNU STUDENT BRANCH

- 1. Seminar on Research Paper Writing Using LaTeX:** Jagannath University, 19th November, 2018.
- 2. Seminar On Problem solving techniques for programming contest:** Jagannath University, 6th December, 2018.
- 3. Seminar on Mobile Cloud Computing for Smart City Applications:** Jagannath University, 13th December, 2018.

### IEEE NSU STUDENT BRANCH

- 1. Workshop on “Cybersecurity and RoboCamp”:** North South University – Bangladesh, 1st November 2018, Co-host: IEEE BDS SAC, Japan-Bangladesh Robotics and Advanced Technology Research Center, BUGS BD and Dept. of ECE, NSU.
- 2. Workshop on “User Centered Design”:** North South University – Bangladesh, 17th November 2018.
- 3. Workshop on “Mobile Application Development”:** North South University – Bangladesh, 23rd November 2018.
- 4. Electrathon:** North South University – Bangladesh, 7th December 2018.
- 5. Workshop on Demystifying Nuclear & Power Technology:** North South University – Bangladesh, 17th December 2018.

## 4. STUDENT BRANCH ACTIVITIES

### IEEE RUET STUDENT BRANCH

- 1. Workshop on Power Electronics:** ECE Seminar Room, RUET. Date: 9th November 2018. Co-Hosts: IEEE Bangladesh Section SAC & IEEE YP Bangladesh Chapter.
- 2. Workshop on IoT in Robotics:** ECE Seminar Room, RUET. Date: 8th November 2018. Co-Hosts: IEEE Bangladesh Section Robotics & Automation Society.
- 3. Join IEEE: Be a Part of World's Largest Professional Community:** RUET. Date: 25th November 2018.

### IEEE STUDENT BRANCH DU

- 1. FAB Fest 2018:** Nawab Ali Chowdhury Senate Building, DU. Date: 10th November 2018. Co-host: FAB Lab, DU and Electrical and Electronics Club, DU.
- 3. 3rd Student Conference on Science and Engineering:** Department of EEE, DU. Date: 24th November 2018. Co-host: Dhaka University Science Society.

### IEEE STUDENT BRANCH KUET

- 1. IEEE TISP (Teachers in Service Program) Workshop:** KUET. Date: 12th November 2018. Co-host: IEEE Bangladesh Section.

### IEEE ULAB STUDENT BRANCH

- 1. Graphics Designing Workshop:** ULAB A Campus, Room 301, 1st November 2018.
- 2. Workshop on Demystifying Nuclear Power Technology:** ULAB Campus, 13th December, 2018, Co-Host: IEEE ULAB SB WIE Affinity Group.

### IEEE UAP STUDENT BRANCH

- 1. Workshop on "Demystifying Nuclear":** UAP, 12th December, 2018, Co-Host: IEEE BDS and IEEE BDS SAC.

### IEEE DIU STUDENT BRANCH

- 1. A Beginner's Guide to Technical Paper Writing:** DIU permanent campus, 4th November, 2018.
- 2. Workshop on "Demystifying Nuclear Power Technology":** DIU permanent campus, 8th December, 2018, Co-Host: IEEE Bangladesh Section, IEEE Bangladesh Section Student Activities Committee.

### IEEE SUST STUDENT BRANCH

- 1. Seminar on "Getting IEEE Computer Society Membership: Benefits and Opportunities":** Gallery 2, IICT, SUST. Date: 19th November 2018.



**2018 MGA Outstanding  
Large Section Award**



**2018 Outstanding Section Membership  
Recruitment and Retention Performance**  
Bangladesh Section



**2018 Outstanding Section Membership  
Retention Performance**  
Bangladesh Section

