



# IEEE BANGLADESH SECTION NEWSLETTER 2019

Issue 2



2018 Outstanding Section Membership  
Recruitment and Retention Performance  
Bangladesh Section



2018 Outstanding Section Membership  
Retention Performance  
Bangladesh Section

# Messages



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

It is of great pride, as the Chair, to witness IEEE Bangladesh Section publishing the 2nd edition of the newsletter 2019. It's prodigious to see young minds devoting their hard work to IEEE Bangladesh Section which is truly visible through the outstanding achievement in the year 2019. 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 first edition of the newsletter.

# Messages



**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 42 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. It is now a bellwether to Bangladesh in order to foster great minds towards the ever growing and emerging fields of engineering and technology.

Ever since the inception of IEEE Bangladesh Section, it has been thriving to establish a community of engineers, researchers, faculties and other technical-minded people to achieve its goals. The section aims to be one of the most functional groups of IEEE Region 10 as a refined branch of the IEEE itself. The section inflames the spirit of its members to join together and actively conduct research and industry-based workshops, seminars, conferences, short courses and so on. One of the most remarkable aspects of IEEE Bangladesh Section is that it houses people from different disciplines in the science, engineering and technology arena. The section has been a catalyst towards eradicating the academic boundaries and dichotomy among disciplines like electrical, electronic, communication, computer, information technology etc.

I am captivated to learn that IEEE Bangladesh Section has effectively made myriads of social and non-technical contributions. The section actively takes part in the annual IEEE Student Young Professionals Women Congress, makes the necessary arrangements for the Gala Dinner, conducts several sessions on career development, time management, research methodology etc. One of the prime targets of IEEE BDS has been to reduce the divisive line between industry and academia for the benefits of its associated members and volunteers. It opens doors for networking and helps the large body of affiliated technical people to resolve the conundrums of the modern ever-growing technologies. I am thoroughly delighted with the activities of IEEE Bangladesh Section and immensely proud to be a part of it. I am looking forward to contributing more to this organization and wish it every triumph and success along its lofty way to achieve greatness.

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## 1. Event Name: IEEE Bangladesh Section represented at TEDx BUET

**Date:** July 27, 2019

**Venue:** BUET Auditorium

**Host:** TEDx BUET

**Co-host:**

**No. of participants:**



## **2. Event Name: Inauguration Ceremony - “IEEE Computer Society ULAB Student Branch Chapter”**

**Date: July 9, 2019**

**Venue: Campus B, University of Liberal Arts Bangladesh**

**Host: IEEE CS ULAB SB**

**Co-host: IEEE ULAB SB, IEEE Bangladesh Section**

**No. of Participants: 38**

On 8th of July 2019, the inauguration ceremony of IEEE Computer Society ULAB Student Branch Chapter (IEEE CS ULAB SBC) was held at Campus B (Seminar Room), University of Liberal Arts Bangladesh.

The welcome speech of the ceremony was given by Dr. Mohammad Shahriar Rahman, Head of CSE Dept. at ULAB, in his speech, he said inspiring words to the members of IEEE ULAB Student branch and added that he would like to see more works, events and ceremonies being organized by this Student Branch so that all the Student Branch's and Chapters of Bangladesh could stay connected and work collaboratively.

The speech was then followed by the Guest of Honor Professor Dr. Md Abdur Razzaque, Vice Chair (Technical), IEEE CS BDC and Professor of the CSE Dept at Dhaka University. He shared his

experience of being an IEEE member and added how IEEE SB and IEEE CS could be beneficial for every individual and for the development of the World.

Professor Mohammad Shorif Uddin, Chair, IEEE CS BDC said about his expectations from the new generation of this era. He expects that IEEE CS ULAB SBC will arrange seminars, workshops and productive activities with complete support of the faculty members of ULAB.

Later on, Industry iconic, Professor Dr. Khondakar A. Mamun gave his speech and said about the importance of having an adequate CGPA and also being skillful. He said that he will prefer hiring skillful graduates for his company but at the same time in case of complex works he will want a graduate of fine CGPA.

Professor Dr. Celia Shahnaz, Chair, IEEE Bangladesh Section, said about the importance of participating in Conferences, Congresses and other primary and well-known flagship events organized by IEEE. She added that she and IEEE Bangladesh Section would love to work collaboratively with other Student Branch Chapters of Bangladesh.

The ceremony was attended by more than sixty students including the Executive members of IEEE ULAB Student Branch and the Executive members of IEEE Computer Society ULAB Student Branch Chapter. Among others, Mr. Ahsan Habib Tareq, Secretary of IEEE CS BDC, Associate Professor, ICT, MBSTU, and Mr. Md. Ferdous Mahmud, Industrial Activity Coordinator of IEEE CS BDC were also present.

Following the program, the vote of thanks was given by Dr. Muhammad Golam Kibria, the Advisor of IEEE CS ULAB SBC and Associate Professor Dept. Of CSE, ULAB.

The ceremony was ended by handing over token of appreciation to the Honorable Guests by Dr Mohammad Shahriar Rahman and Dr. Muhammad Golam Kibria and a photo session.





### 3. Event Name: Academic Exchange and Professional networking at RUET

**Date: July 11, 2019**

**Venue: EEE Department, RUET**

**Host: IEEE RUET SB**

**Co-host: IEEE Bangladesh Section**

**No. of Participants: 8**





## 4. Event Name: International Conference on Computer, Communication, Chemical, Materials and Electronic Engineering

**Date: July 11-12, 2019**

**Venue: Engineering Faculty, University of Rajshahi**

**Host: University of Rajshahi**

**Technical Co-sponsor: IEEE Bangladesh Section**



## **5. Event Name: WePower overview Introduction: An interdisciplinary Session at IC4ME2**

**Date: July 12, 2019**

**Venue: University of Rajshahi**

**Host: IEEE Bangladesh Section**

**Cohost: IEEE BDS WIE Affinity Group and Faculty of Engineering, University of Rajshahi.**

**No. of Participants: 31**

The 5th International Conference on Computer, Communication, Chemical, Materials and Electronic Engineering IC4ME2-2019, organized by the Faculty of Engineering, University of Rajshahi, Bangladesh, July 11 –12, 2019 at University of Rajshahi Campus.



## **6. Event Name: Academic Networking at DUET**

**Date: July 25, 2019**

**Venue: EEE Department, DUET**

**Host: EEE Department, DUET**

**Technical Co-sponsor: IEEE Bangladesh Section**

**No. of Participants: 10**



## **7. WePower overview Introduction: An interdisciplinary Session at IC4ME2**

**Date: July 12, 2019**

**Venue: University of Rajshahi**

**Host: IEEE Bangladesh Section**

**Cohost: IEEE BDS WIE Affinity Group and Faculty of Engineering, University of Rajshahi.**

**No. of Participants: 31**

The 5th International Conference on Computer, Communication, Chemical, Materials and Electronic Engineering IC4ME2-2019, organized by the Faculty of Engineering, University of Rajshahi, Bangladesh, July 11 –12, 2019 at University of Rajshahi Campus.



## **8. Celebrating 50 years of Conquering Moon - Research & Innovation Opportunities**

**Date: 20 July, 2019**

**Venue: Room 627, ECE Building, BUET.**

**Host: IEEE Bangladesh Section**

**Co-Host: IEEE BUET Student Branch**

**No. of Participants: 16**

IEEE BUET Student Branch and IEEE Bangladesh Section celebrated 50th year of conquering Moon on 20 July, 2019. A talk was held on the technological and research aspects of space exploration. The session was held on the very day of mankind's first step on the moon. The program was crowned by the presence of Anamika Bhakta, Chair, Women in Engineering Affinity Group, IEEE Bangladesh Section.

At the beginning of the session, Dr. Celia Shahnaz, Chair of IEEE Bangladesh Section and Professor, Department of EEE, BUET talked about the event of Moon landing and its impact on the science and technology of present times. She also discussed how space technology, such as- satellite imaging, geographical data analysis could have a positive impact on the weather forecast and disaster management in Bangladesh.

Dr. Farseem Mannan Mohammady, Professor, Department of EEE, BUET and Newsletter Editor, IEEE Bangladesh Section talked about the current technological progress regarding space exploration in Bangladesh. In his opinion, the technological progress of our neighboring countries and their recent space exploration programmes have made them a part in the history of mankind. He explained how the enthusiastic minds of this country should take part in the '4th industrial revolution' and take part in space technology related activities to take this nation to a better position both economically and technologically.

Finally, Dr. Shaikh Anowarul Fattah, Professor, Department of EEE, BUET, talked about the requirement of modern nano-technology, fabrication labs and mostly, a dedicated group of people who would focus on designing and producing advanced materials required for such research in the country. In this regard, he expressed his optimism about creating a Space Technology Society that would bring together the bright and enthusiastic minds in the space sector.



## **9. IEEE Bangladesh Section Vitality Enhancement Event 2019 - UIU**

**Date: 20th July 2019**

**Venue: Department of EEE, UIU**

**Host: IEEE UIU Student Branch**

**Cohost: IEEE Bangladesh Section, IEEE Signal Processing Society (SPS) Bangladesh Chapter and IEEE Engineering in Medicine and Biology Society (EMBS) Bangladesh Chapter**

**No. of Participants: 20**

IEEE advances technology for humanity by creative collaborative platforms around fields of technical knowledge: via its world-renowned conferences, publications, educational workshops, and standards.

On 20th July, IEEE UIU Student Branch collaborated with IEEE Bangladesh Section, IEEE Signal Processing Society (SPS) Bangladesh Chapter and IEEE Engineering in Medicine and Biology Society (EMBS) Bangladesh Chapter to organize a special event titled “IEEE Bangladesh Section Vitality Enhancement Event”. The program was all about informing, enhancing and grooming the students about the different types of prestigious opportunities that are available to anyone possessing an IEEE Membership. A total of 20 participants were present at this event which was conducted by four very distinguished speakers representing IEEE Bangladesh Section, IEEE SPS Bangladesh Chapter, and IEEE EMBS Bangladesh Chapter.

The first two sessions were conducted by Nymour Rahman, a member of the IEEE SPS Bangladesh Chapter and Mohammad Ehsanul Haque, a member of the IEEE EMBS Bangladesh Chapter, both of whom are graduate students from the Department of EEE of BUET. They were pleased to share with us the knowledge of various research and funding opportunities available all around the world. They emphasized having an IEEE Membership which is crucial in order to gain access to these opportunities. The third session was conducted by Shajib Ghosh, Secretary of IEEE EMBS Bangladesh Chapter and a graduate student of the University of Dhaka. He conducted a campaign on the Smart City Initiative, which was started by IEEE Bangladesh Section earlier in 2019 and it is about making Dhaka City a better place to live in by introducing smart technology to assist us in our daily lives. This initiative is based on various Internet of Things (IoT) projects and it is set to make a huge impact on our lives within a certain span of time.

The fourth and final session was conducted by M. Tanseer Ali, Assistant Professor of the Department of EEE at AIUB and the Educational Activities Coordinator of the IEEE Bangladesh Section. He inspired the audience by delivering a talk on IEEE Membership Engagement, Recruitment, and Retention. He and Shajib Ghosh were more than happy to announce that a total of five different IEEE conferences were being organized by the different sectors of the IEEE Bangladesh Section.

Dr. Md. Iqbal Bahar Chowdhury, Associate Professor and Head of the Department of EEE of UIU and Dr. M. Rukhonuzzaman, Associate Professor and Coordinator of the Department of EEE of UIU attended the program as guests. They honored the distinguished speakers of the Vitality Enhancement Event by presenting gift bags to them. The prestigious event finally concluded with the participants of the program posing for a group photo with the speakers and our respected faculty members.



## **10. EEE Bangladesh Section Vitality Enhancement Event 2019 - AUST**

**Date: 20th July 2019**

**Venue: Department of EEE, AUST**

**Host: IEEE AUST SB**

**Cohost: IEEE Bangladesh Section, IEEE Robotics and Automation Society Bangladesh Chapter and IEEE Industry Applications Society Bangladesh Chapter**

**No. of Participants: 20**



IEEE Bangladesh Section along with IEEE Robotics and Automation Society Bangladesh Chapter and IEEE Industry Applications Society Bangladesh Chapter organized the IEEE Bangladesh Section Vitality Enhancement Event, hosted by IEEE AUST Student Branch, IEEE AUST Student Branch WIE Affinity Group, IEEE PES AUST Student Branch Chapter and IEEE SPS and ComSoc AUST Student Branch Joint Chapter in Room 4A04 of the Department of EEE, AUST at 3:30 PM.

The event was in a coalition of four different sessions carried out by the representatives of IEEE BDS, IEEE RAS, and IAS BD Chapters and The Smart City Campaign of IEEE BDS. Prof. Dr. A.K.M. Ehtesanul Islam, Head, Department of EEE, AUST, Prof. Dr. A.K.M. Baki, Counselor, IEEE AUST Student Branch was present in the event along with 20 students, all of whom were IEEE Members. Mohammad Muntasir Hassan, Lecturer, Department of EEE, University of Liberal Arts, Bangladesh and Graduate Student, Department of EEE, BUET carried out the first session of the day where he focused on the introduction of IEEE Industry Applications Society and its Bangladesh Chapter's activities, research and funding opportunities. Junaed-Al-Hossain, Lecturer, Department of EEE, Daffodil International University, Bangladesh and Graduate Student, Department of EEE, BUET took the stage to show the audience the progress of IEEE Bangladesh Section's newly launched initiative 'Campaign for Smart City'. His session provided a clear idea of the campaign and its prospects of works in different components of the Smart City concept. Following him, Shafkat Mahmud Khan, Graduate Student, Department of EEE, BUET, came up with his presentations showing the working aspects of the IEEE Robotics and Automation Society Bangladesh Chapter. For the closing session of the day, Raihan Ur Rashid, Secretary, IEEE Bangladesh Section, and Graduate Student, University of Dhaka walked up to the podium to talk about Membership Engagement, Recruitment, and Retention of IEEE. We express Special Thanks to Prof. Dr. Celia Shahnaz, Chair, IEEE Bangladesh Section for taking the initiative and holding the Vitality Enhancement Event at AUST. Tokens of appreciation were presented to each of the guests at the end of the event. Photos were taken by Partha S Dev. Graphic designs were created by Humaira Ferdous Shifa and Abdur Rahman Showrov.



## **11. IEEE Bangladesh Section Vitality Enhancement Event 2019 - IUB**

**Date: 27th July 2019**

**Venue: Independent University, Bangladesh (IUB)**

**Host: IEEE IUB SB**

**Cohost: IEEE Bangladesh Section, IEEE Robotics and Automation Society Bangladesh Chapter and IEEE Industry Applications Society Bangladesh Chapter**

**No. of Participants: 31 students (IEEE member -15 and Non-IEEE member - 16).**

IEEE Bangladesh Section along with IEEE Robotics and Automation Society and IEEE Industrial Application society Branch chapter organized a series of technical program “IEEE Bangladesh Section Vitality Enhancement”; which was hosted by IEEE IUB STUDENT BRANCH, IEEE IUB Industrial Application society Branch chapter, and IEEE IUB Women in Engineering Affinity group. The seminar took place on 27th July 2019 at the IUB campus. The aim of the event was to deliver information to the participants about the various societies of IEEE as well as the current status of IEEE in Bangladesh, which included current membership status

and the various projects being carried out. Four guest speakers were present in the seminar: Sazzad Sayyed, graduate from the dept. of EEE, BUET, and lecturer at Southeast University, Shajib Ghosh, Secretary of IEEE EMBS Bangladesh Chapter and graduate of Dhaka University, Abdul Rakib Hossain, graduate from BUET and lecturer at Shonargaon University, and Faisal Mohsin, manager (Satellite Engineer) at Bangladesh Communication Satellite Company Ltd. and professional activities coordinator of the IEEE Bangladesh section ex-com. Dr. Md. Abdur Razzak, Associate Professor of Dept. of EEE, IUB started the seminar with an introductory speech, followed by the first speaker Mr. Sazzad Sayyed, who introduced us to the IEEE Signal Processing Society (SPS). Mr. Sazzad spoke about the importance and applications of signal processing and mentioned about the projects and programs carried out by the IEEE SPS. The second speaker, Mr. Shajib Ghosh, introduced us to the IEEE Engineering in Medicine and Biology Society (EMBS). He shared with the participants the Medical and Biology sectors related to EEE, mostly emphasizing on detection methods (ECG, EEG, Endoscopy, etc.) and Deep learning (neural networks), as well as informed the participants about the current programs and events that IEEE EMBS is working on. The third speaker, Mr. Abdul Rakib Hossain, gave his speech upon the topic “IEEE Bangladesh Section Smart City Initiative” where he informed us about what smart city is and the various fields necessary to be improved to achieve smart city, including smart transportation, smart housing, and smart grid. The final speaker, Mr. Faisal Mohsin, talked about IEEE Bangladesh Section, sharing information about the current members in the country as well as the gradual membership growth, the several societies of IEEE, as well as the upcoming IEEE conferences. The seminar ended with Dr. Md. Abdur Razzak handing over crests to the speakers. Overall, the seminar was a successful one and was particularly helpful to participants who plan to do research or are searching for research topics.



**12. Event Name: IEEE YESIST12 Innovation Challenge 2019, Bangladesh Pilot Round**

**Date: 27th July, 2019**

**Venue: Asia Hotel and Resorts, Dhaka, Bangladesh.**

**Event Coordinator: Raihan Ur Rashid, Secretary, IEEE Bangladesh Section**

**Number of students participated: 120**

**Number of teams participated: 23**

**Number of universities/colleges participated: 11**

**Names, affiliation and details of the juries:**

**Prof. Dr. Celia Shahnaz, Chair, IEEE Bangladesh Section, BUET, Dhaka, Bangladesh.**

**Prof. Dr. Shaikh Fattah, Chair IEEE HAC Bangladesh Section, BUET, Dhaka, Bangladesh.**

**S.M.Saiduzzaman, Lecturer, Department of EEE, Southeast University.**



**13. Event Name: IEEE Student Professional Awareness Conference (SPAC)****Date: August 2, 2019****Venue: Recreation Hall, North South University.****Host: IEEE NSU Student Branch****Cohost: IEEE Bangladesh Section****Number of participants: 217 (IEEE Member – 209)**

On 2nd August 2019, IEEE North South University Student Branch (INSB) along with IEEE Bangladesh Section (IEEE BDS) organized one of the flagship events of IEEE, Student Professional Awareness Conference (SPAC). The goal of this event was to bridge the gap between students and their career goals.

The event consisted of multiple segments. The conference commenced with a talk from Md. Sarwar Jahan on “Integrity at the Workplace.” After the talk, a game session on the same topic was held where every table formed a team, and each team was provided with two ethical problems to solve within a given time. To help the students clearly understand the situations, Wordh Ul Hasan, Tanzil Shahria Himel, and Abir Ahsan Akib moderated the segment. The answers from the teams were judged by Md. Sarwar Jahan and Dr. Lamia Iftekhar and winners for each question were announced later.

Trailing this session was a technical talk session on “Emerging Research: Data Center, LIDAR & PET Image Related Applications of Slow-Light Enabled Photon Trapping Sensors” and the talk was given by reputed nanosystems and nanotechnology researcher M. Saif Islam. He shared his own research work and also gave the participants a glimpse of what the top researchers are working on at this moment.

Followed by the technical session, participants went on a tea break and after the break, a session on “Career Development” begun. In this session, three reputed professionals, including two renowned entrepreneurs, formed a panel, and the participants were given the opportunity to ask them career-oriented questions. Mohammad Oli Ahad, Rayeesa Nafis, and Yameen Ahmed were the esteemed panelists of this session, and Rummana Rahman moderated it. The moderators provided insightful advice on Career Development and answered all the queries of the participants in a lively way. The participants appreciated their way of seeing the professional world and their methodologies for overcoming the hurdles.

After the career development session, Shojib Ghosh provided a technical talk on the “Smart City Initiative” and following the talk, guests and participants went on a lunch break.

After lunch the conference resumed with the “Ambassador Program: Membership Recruitment and Retention” carried out by Raihan Ur Rashid. He shared the success stories of IEEE Bangladesh section in membership development and also unveiled five co-located conferences to be hosted by IEEE Bangladesh Section later this year.

The next segment was on “Rising Star” conducted by A R M Abdullah Rocky and Irtiza Haque. They demystified the Rising Star program and also shared some valuable professional and life lessons with the students afterward.

The conference proceeded through with another non-technical talk session on “Art of Mastering Communication Skills” conducted by Dr. Arshad M. Chowdhury. His speech on “Art of Mastering Communication Skills” was enlightening and thought-provoking. A lot of engineering students don’t take this skill seriously and suffer in the long run. His speech helped the participants to understand the necessity of being a good communicator as well as teaching them a thing or two about how to be good

at it. This session also included a picture perception game where two members from each team described what they understood from the picture and presented on it.

Following was another interesting talk session on “Robotics for 4th Industrial Revolution” and the talk was given by Abul Al Arabi.

Dr. Shaikh Anowarul Fattah conducted the next session on “Insights on SROI: IEEE HAC” and the session was lively and interactive. Almost every engineer has an idea or two to do good for humanity, but most of the ideas and projects are not sustainable, and thus, most of them do not bear fruit. The speaker advised to find and target a locality for a project and also shared the sustainable development goals set by IEEE.



#### **14. Event Name: Academic exchange with Research expert Prof Saif Islam**

**Date: August 2, 2019**

**Venue: North South University**

**Host: IEEE Bangladesh Section**

**Co-host: IEEE NSU SB**

**No. of participants: 26**

Meet up with Prof. Saif Islam, Professor, University of California Davis at SPAC 2019 at NSU for research and collaboration. Thanks to Faculty members from NSU, Speakers of SPAC and graduate students of BUET for cordial participation.



**15. Event Name: Discussion on Fire Safety Management and Accident Prevention**

**Date: 3rd August, 2019**

**Venue: ECE Building, BUET**

**Host: IEEE Bangladesh Section**

**Cohost: IEEE BDS Women in Engineering (WIE) Affinity Group**

**No. of Participants: 45**

A discussion on fire safety took place on the 3rd of August, 2019 at 11 am jointly organized by IEEE Bangladesh Section and WIE AG of IEEE Bangladesh Section. The event started with Professor Dr. Celia Shahnaz, chair, IEEE BDS and founding chair and advisor of WIE, BDS, welcoming the guests and elaborating the objectives of arranging such a session, – which is to develop a working group for solving all the problems technically by encouraging industry academia collaborations and to involve women in this feat. All the guest speakers attending the program introduced themselves. Professor Abdul Hasib Chowdhury, Dept. of Electrical and Electronic Engineering, Bangladesh University of Engineering and



Technology was the opening speaker and he discussed the electrical aspects of fire safety. He also discussed acts, rules and regulations related to electrical and structural safety.

Another speaker was Mr. George Faller, Chief Technical Advisor, improving working conditions in the RMG sector, ILO-Dhaka, Bangladesh. He pointed out the areas of fire safety where Bangladesh needs to focus on. He discussed at length, how modern prescriptive codes are developed, evaluated and implemented as well as integration of fire safety in the design process. The third speaker was Mr. M.R. Khan, CEO of Integrated Risk Consulting Group. He shared some of his experiences while working in field level. He relates how RMG owners comply to their buyers needs rather than the workers for example in an RMG factory fire safety rules were written in English instead of Bangla and the sad fact that Accord and Alliance were established to save reputational hazards for large multi-national companies. The next speaker was Mr. Bazlul Munir, Chief Engineer, Power Grid Company, Bangladesh. He reflected on his company's limitations in preventing grid fires such as the inability to effectively section and cut down power. He emphasized on prevention of fire incidences by ensuring passive fire protection and prioritizing life over money. The fifth speaker was Mr. Shahriar Iqbal Raj, Assistant professor, Dept. of Architecture, North South University. He stressed how a little bit of awareness and mindfulness on our part can help prevent fire related casualties. Mr. Avipriyo Charkaborty, Assistant Project Engineer, Infrastructure Sustainable Technology Limited was the sixth speaker of the session. He relayed us his experiences of retrofitting several factories to ensure that they comply with fire safety measures. The following speaker was Mr. Shyful Islam Mamum, Managing Director, BanMech Limited. He pointed out some of the reasons fire spread out easily and caused a huge number of casualties in our country, Firstly, he talked about improper house-keeping, and how it results in blocking of fire-exits, narrowing of hall ways and exit paths. He also informed us about different type of fire-extinguishers coded by colors and what should be done in case of a fire incident. The final speaker was Mr. Suyog Vyawahare from Sincos Automations and a member of IEEE, Mumbai Section. He discussed some technical terms such as the difference between LPG and CNG induced fire, wiring specifications etc.

The event was concluded by professor Celia Shahnaz pointing out the outcomes of the session and mentioning what can be done further. The event resulted in dynamic collaboration of a number of industry personalities, technical personalities and academia. A total of 45 participants including the graduate student members and professionals from 16 organizations and 9 industries (Premium Connectivity, Summit Communications and Energypac Limited) were hugely benefitted by this discussion.



## **16. IEEE Bangladesh Section Vitality Enhancement Event 2019 - ISTT**

**Date: 3rd August 2019.**

**Venue: Institute of Science, Trade, and Technology, Mirpur 14, Dhaka-1216.**

**Host: IEEE ISTT SB**

**Cohost: IEEE Bangladesh Section, IEEE Signal Processing Society (SPS) Bangladesh Chapter, IEEE Robotics and Automation Society Bangladesh Chapter and IEEE Industry Applications Society Bangladesh Chapter.**

**No. of Participants: 35**

On 3rd August 2019, “IEEE Bangladesh Section Vitality Enhancement Event” was organized by IEEE ISTT SB. This event was funded by IEEE BDS. This event took place at ISTT, Mirpur 14 in the morning from 10 am up to 12 pm. Almost 35 students including IEEE members and non-members were attended in the event.

In the first session, the event was conducted by Mohammad Mahinur Rahman, Operation and Project Lead, CODE19, The session was on researching and funding Opportunities from IEEE IAS Bangladesh Chapter. Introducing to the IEEE BDS, he started his valuable discussion on IAS and the importance as well as the processing of joining the Industrial Application Society (IAS). He inspired us by letting us know the opportunities of IAS and what benefits we will get from it. He also gave us inspirational activities on joining us in IAS and the profits which we will get in our professional as well as student life.

In the second session, this seminar was conducted by Shajib Ghosh, Secretary, IEEE SPS BD Chapter. “Smart City” was the theme of his session. Defining what smart city is, he showed us slides on the sectors where a smart city can be implemented. The ideas that were given by many students of different universities, he described to us the particular sectors where the smart city can be implemented. The present lack of Bangladesh in traffic and street management and how we can use those smart technologies and make our life better, he explained to us with much proficiency. At the end of the session, he asked for questions and many of the students questioned him on the smart city and he gave the solutions. The implementation of modern devices was noticeable.

In the third session, this seminar was conducted by Abul Al Arabi, Award Coordinator of IEEE BDS. He started briefing us with the awards received by the Bangladesh section due to its potentiality and active performances. The scopes we have as a student to explore ourselves in Bangladesh as well as in the whole world, inspired us to build the courage to take the initiative of informative ideas. He shared his experiences of participating and achieving success in different competitions and gave us the way by which we can access those fields as well. In the end, there was a Question session. Students had many questions on different issues and he replied to all of those.

In the last phase, this session was conducted by Khaled Bin Moinuddin, Embedded System Designer, Techshop Bd. He inspired us about Robotics and motivated us to explore our innovative ideas and to implement those in our life. He has shown the way by which we can utilize our student life by doing study and research at the same time. He advised us to balance every step to achieve success.

Each session ended by honoring our instructors with tokens of appreciation presented by our honorable Head of ECE Department and Respected lecturers of ISTT.

The participants were given snacks for refreshment and the event got satisfactions to form every participant. We cannot explain our gratitude enough at IEEE Bangladesh Section, the speakers, all the participants, volunteers who helped us to make this event successful. Every participant was dedicated and interested in this event. We hope to arrange more events with IEEE Bangladesh Section in the near future



## **17. Event Name: IEEE Bangladesh Section Volunteer Recognition Program**

**Date: 3 August, 2019**

**Venue: Seminar Room, Auditorium Complex, BUET**

**Host: IEEE Bangladesh Section**

**Cohost: N/A**

**No. of Participants: 70**

IEEE Bangladesh Section organized a Volunteer Recognition Program for IEEE WIE International Leadership Summit 2018. 70 volunteers from different institutes who had worked with dedication for IEEE WIE ILS 2018, IEEE Bangladesh Section and its new technical societies in 2019 joined the event.

Volunteers shared their experiences of working in WIE ILS 2018 which was one of the largest flagship events of IEEE that Bangladesh Section has ever hosted. The section Chair prof. Dr. Celia Shahnaz shared her vision about organizing volunteer recognition for the incredible team of volunteers, she motivated everyone for becoming a part of the future events, such as 5 collocated technical society conferences/ workshop and upcoming TENSYP 2020. Then every volunteer individually received a framed certificate from WIE ILS 2018's General Chair Dr. Celia Shahnaz. IEEE WIE ILS program Chair Anamika Vakta was present there. Each volunteer received an especially designed T-shirt as a token of appreciation. Finally, the program concluded with a dinner.



## **18. IEEE Bangladesh Section Vitality Enhancement Event 2019 - Stamford**

**Date: 31st August 2019.**

**Venue: MCL-A Lab, Department of EEE, Stamford University Bangladesh, Siddheswari Campus.**

**Host: IEEE Stamford SB**

**Cohost: IEEE Bangladesh Section, IEEE Signal Processing Society (SPS) Bangladesh Chapter and IEEE Engineering in Medicine and Biology Society (EMBS) Bangladesh Chapter**

IEEE Bangladesh Section along with the IEEE Signal Processing Society Bangladesh Chapter and IEEE Engineering in Medicine and Biology Society Bangladesh Chapter organized the IEEE Bangladesh Section Vitality Enhancement Event, hosted by IEEE Stamford University Student Branch and IEEE Stamford University Student Branch WIE Affinity Group.

Sessions and Speakers of the Event:

1. IEEE Signal Processing Society Bangladesh Chapter: Research and Funding Opportunities

Speaker: Sazzad Sayyed

Lecturer, Dept. Of EEE, Southeast University, Bangladesh

Graduate Student, Department of EEE, BUET

2. IEEE Engineering in Medicine and Biology Society Bangladesh Chapter: Research and Funding Opportunities

Speaker: A.F.M Saif

Graduate Student, Department of EEE, BUET

### 3. Campaign for IEEE Bangladesh Section Smart City Initiative

Speaker: Junaed-Al-Hossain

Lecturer, Department of EEE, Daffodil International University, Bangladesh

Graduate Student, Department of EEE, BUET

### 4. Membership Engagement, Recruitment, and Retention

Speaker: Faisal Mohsin

Professional Activities Coordinator, IEEE Bangladesh Section

Manager, Satellite Operations Control Centre, Bangladesh Communications  
Satellite Company Ltd.



**19. Event Name: Workshop on RISC-V Technology and SiFive Tutorial****Date: 31st August, 2019****Venue: Department of EEE, University of Dhaka****Host: SiFive****Cohost: Ulkasemi, IEEE Bangladesh Section and Department of EEE, BUET.**

Ulkasemi co-hosted “Workshop on RISC-V Technology and SiFive Tutorial” organized by SiFive along with IEEE Bangladesh Section and Department of EEE, BUET. Welcoming session and Introduction speech were conducted by Shivaram Venkatesh, Sr. Technical Solution Engineer, SiFive. Naveed Sherwani, CEO of SiFive talked about leading Semiconductor Design Revolution. An insightful research update was presented by Prof. Dr. Celia Shahnaz, Professor, Bangladesh University of Engineering & Technology, Dhaka. Tutorial on RISC-V Cores and Software Ecosystem was instructed by Rajesh Varadhrajan, Director of IP Engineering, SiFive. Participants from various sectors of IT and Semiconductor industry were present as well. It was a great opportunity for exchanging knowledge.





## **20. IEEE Bangladesh Section Vitality Enhancement Event 2019 - BUP**

**Date: 7th September 2019.**

**Venue: BUP**

**Host: IEEE BUP Student Branch**

**Cohost: IEEE Bangladesh Section, IEEE Robotics and Automation Society Bangladesh Chapter and IEEE Industry Applications Society Bangladesh Chapter**

**No. of Participants: 55**

The Vitality Enhancement Event organized by IEEE BUP Student Branch, in association with the IEEE Bangladesh section has been conducted successfully. The speakers of this event were - M Tanseer Ali Assistant Professor, Department of EEE, AIUB Educational Activities Coordinator, IEEE Bangladesh Section. - Mohammad Mahinur Rahman Operations and Project Lead At Code19 Executive Director At IOT For Bangladesh Graduate Student, Department of EEE, BUET. - Junaed Al Hossain Lecturer, Dept of EEE, Daffodil International University Graduate Student, Department of EEE, BUET. -Shafkat Mahmud Khan Graduate Student, Department of EEE, BUET. The event was arranged with the aim to get to know about different chapters of IEEE such as Industry Application Society (IAS) Bangladesh Chapter and IEEE Robotics and Automation Society (RAS) Bangladesh chapter. The Campaign for IEEE Bangladesh section Smart City Initiative was also done in this event. The speech from the speakers were really inspiring. 55 students attended the event. The unexpectedly huge response and active participation throughout the event made the event a success. IEEE BUPSB Counselor Md Maynul Islam was present at the event. He was utterly pleased with the overwhelming response in the event and has promised to help the student branch to arrange more events like this in the future. Lastly, a small token of appreciation was presented by IEEE BUPSB to the honorable speakers for their valuable time.



## **21. IEEE Bangladesh Section Vitality Enhancement Event 2019 - DU**

**Date: 7th September 2019**

**Venue: Department of EEE, University of Dhaka**

**Host: IEEE Student Branch DU**

**Cohost: IEEE Bangladesh Section, IEEE Signal Processing Society (SPS) Bangladesh Chapter and IEEE Engineering in Medicine and Biology Society (EMBS) Bangladesh Chapter, IEEE Computer Society Student Branch Chapter DU, IEEE Robotics and Automation Society Student Branch Chapter DU, IEEE WIE Affinity Group Student Branch DU.**

**No. of Participants: 45**

IEEE Student Branch University of Dhaka (IEEE SB DU) in collaboration with IEEE Bangladesh Section organized the IEEE Bangladesh Section Vitality Enhancement Event on September 7, 2019, at the Department of EEE, University of Dhaka. Around 45 participants participated in the event including Ex-Coms, IEEE Members and non-IEEE Members.

The event comprised of a series of seminars as mentioned below:

- IEEE Signal Processing Society Bangladesh Chapter: Research and Funding Opportunities

Speaker: Dipayan Saha

Graduate Student, Department of EEE, BUET

Lecturer, Dept. Of EEE, Sonargaon University

- IEEE Engineering in Medicine and Biology Society Bangladesh Chapter: Research and Funding Opportunities

Speaker: Shajib Ghosh

Secretary, IEEE EMBS Bangladesh Chapter

Graduate Student, University of Dhaka

- Campaign for IEEE Bangladesh Section Smart City Initiative

Speaker: Abdul Rakib Hossain

Graduate Student, Dept. Of EEE, BUET

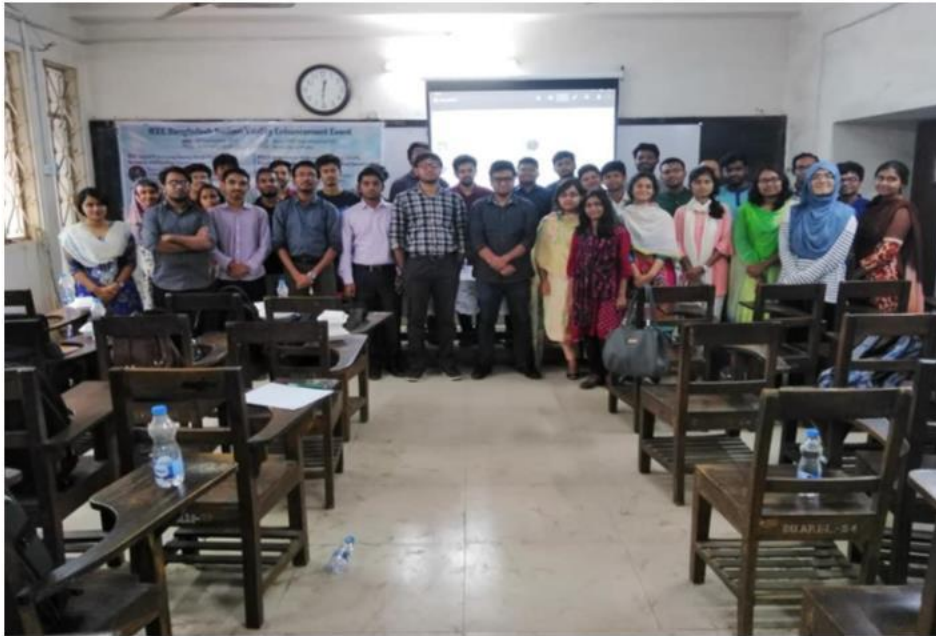
Lecturer, Dept. Of EEE, Sonargaon University

- Membership Engagement, Recruitment, and Retention

Speaker: Raihan Ur Rashid

Secretary, IEEE Bangladesh Section

Graduate Student, IBA, DU



## **22. Event Name: IEEE Bangladesh Section Joint SB Initiative**

**Date: September 13, 2019.**

**Venue: Room 535, ECE Building, BUET**

**Host: IEEE Bangladesh Section**

**Cohost: IEEE BDS SAC, IEEE Region 10 and IEEE R10 SAC**

**No. of Participants: 120**

On 13 September, 2019 IEEE Bangladesh Section Student Activities Committee along with IEEE Bangladesh Section organized a Joint SB Initiative Programme. The programme took place at ECE building, BUET from 9:00 am up to 7:00 pm. It was hosted by IEEE BUET SB and attended by 120 students from different universities.

The whole programme was divided into three main portions and in each portion few sessions were included. The event started with an introductory session of Raihan Ur Rahman in which he discussed the activities of IEEE Bangladesh Section as well as about the awards, accomplishments and the best practices of Bangladesh Section. The next session was conducted by the Chair of IEEE NSU SB Asma Arisha. She mentioned some best practices of IEEE NSU SB which is one of the most active student branches of Bangladesh section. After that Abir Hasan Akib started his

session. In his session he demonstrated the procedure of Vtools Reporting. The next session was conducted by the Chair of IEEE

AIUB SB, Tauhid Sifat. He mentioned some best practices of his SB. In the next session, Safayetul Wahab Chowdhury discussed about Professional and Personal skill development. After that, Shams Shad Islam Khan, Student Activity Coordinator and Abir Hasan Akib, Section Student Representative conducted an interactive session on event planning and implementation.

After the lunch & prayer break, Sk Azmaeen Bin Amir started his session. He discussed about various sides of Nuclear Power Technology. Abul Al Arabi conducted the next session, which was about Emerging Research & Technical Activities in IEEE. In the next session Dr. M. Tanseer Ali mentioned the benefits of becoming an IEEE Member. He also described about IEEE membership Recruitment and Retention. The next session was conducted by the Chair of IEEE BUET SB Satyaki Banik. He mentioned some best practices of IEEE BUET SB as one of the most active student branches of Bangladesh section. In the next session, Shoilie Chakma and Saraf Mahnaz mentioned the best practices of IEEE WIE. The next session was conducted by Abhijit Biswas in which he described the procedure of Financial Reporting. Abdul Mubin Ahmed guided the next session on Technical Skill Enhancement. Md. Riyad conducted the following session about Industry-Academia Collaboration.

After a short tea break, Zafir Shafiee Chowdhury and Md Ataur Rahman Sarkar started a new session on Entrepreneurship Bootcamp – Panel Discussion. In the next session, A R M Abdullah mentioned the best practices of IEEE YP. Then Professor Dr. Celia Shahnaz, Chair of IEEE Bangladesh Section conducted a session on Authorship Workshop to ensure quality publication. Before the closing session, an interactive session was guided by Dr. Shaikh Anowarul Fattah on Social Impact Analysis of Humanitarian Technology Projects.



**23. Event Name: Inauguration of IEEE Uttara University Student Branch**

**Date: September 23, 2019**

**Venue: Auditorium, Uttara University.**

**Host: IEEE UU Student Branch.**

**Cohost: IEEE Bangladesh Section.**

**Number of participants: 60**

Inauguration Ceremony of IEEE UU Student Branch of Uttara University was organized by IEEE UU SB in association with Dept. of EEE, Dept. of CSE and IEEE Bangladesh Section, on Monday, September 23, 2019 at Uttara University Auditorium. Prof. Dr. Eaysmin Ara Lekha, Honorable Pro-Vice Chancellor, Uttara University, was attended this inaugural ceremony as a chief guest. The Keynote Speaker and Special Guest Prof. Dr. Celia Shahnaz, Chair of IEEE Bangladesh Section, delivered her informative speech to the audience especially young engineering students. The program was arranged with 3 segments: Inaugural speech session, Technical Talk Session and Cake cutting with Photo session

The program was chaired by Professor Dr. Kazi Khairul Islam, Dean, School of Science & Engineering, Uttara University. In this inaugural ceremony, guest of honor was Prof. Dr. Mijanur Rahman, Advisor of IEEEUUSB & Chairman, Dept. of CSE, and Dr. Md. Shakawat Zaman Sarker, Advisor of IEEEUUSB &

Chairman, Dept. of EEE. Md. Kamruzzaman, Counselor of IEEEUUSB and Assistant Professor & Coordinator, Dept. of EEE; Mahmood Reaz Sunny, Mentor of IEEEUUSB and Senior Lecturer Dept. of EEE and Alamgir Hasan, Chair of IEEEUUSB, delivered their speech on activities and importance of involvement with IEEE.

The event was flourished by handing over a crest to Prof. Dr. Celia Shahnaz by Prof. Dr. Eaysmin Ara Lekha, and another crest to Prof. Dr. Eaysmin Ara Lekha by Dean & Chairpersons. All faculties, students of EEE & CSE and IEEE student members were present in the program. The ceremony was concluded by cake cutting and photo session with all faculties and IEEE members.

“IEEE UU Student Branch” was officially approved by the Member and Geographic Activities Board, Region-10(Asia Pacific) and “IEEE Bangladesh Section” on 26th April 2019. The branch activities were started with 5 faculties and 20 students. The Institute of Electrical and Electronics Engineers (IEEE) is the world’s largest professional association for the advancement of technology. There are more than 426,000 IEEE members in more than 160 countries. IEEE publishes a third of the world’s technical literature in electrical engineering, computer science and electronics and is a leading developer of international standards that underpin many of today’s telecommunications, information technology and power generation products and services.



**24. Event Name: Smart City Initiative in Bangladesh****Date: 24-25 September 2019****Venue: IEB Council Hall, Dhaka****Host: IEEE Bangladesh Section****Cohost: IEB (Institution of Engineers, Bangladesh)****No. of Participants: N/A**

The Institute of Electrical and Electronics Engineers (IEEE) Bangladesh Section organized “Smart City Initiatives- Bangladesh” on 24-25 September, 2019 at the Institution of Engineers, Bangladesh (IEB), Dhaka. IEEE is the world's largest association of technical professionals with more than 4,23,000 members in over 160 countries around the world. IEB, the support partner of the “Smart City Initiatives- Bangladesh”, is the most prestigious National Professional Organization of the country. The “Campaign for Smart City in Bangladesh” is an ongoing initiative which was launched by IEEE Bangladesh Section at the beginning of 2019. The slogan for the campaign is: ***“Smart thinking and smart technology for achieving a smart city for Bangladesh.”***

Mr. Md. Atiqul Islam, Honorable Mayor of Dhaka North City Corporation graced the event as the Chief Guest of the Inaugural Ceremony. Furthermore, Honorable DepThe Institute of Electrical and Electronics Engineers (IEEE) Bangladesh Section organized “Smart City Initiatives- Bangladesh” on 24-25 September, 2019 at the Institution of Engineers, Bangladesh (IEB), Dhaka. IEEE is the world's largest association of technical professionals with more than 4,23,000 members in over 160 countries around the world. IEB, the support partner of the “Smart City Initiatives- Bangladesh”, is the most prestigious National Professional Organization of the country. The “Campaign for Smart City in Bangladesh” is an ongoing initiative which was launched by IEEE Bangladesh Section at the beginning of 2019. The slogan for the campaign is: ***“Smart thinking and smart technology for achieving a smart city for Bangladesh.”***



Mr. Md. Atiqul Islam, Honorable Mayor of Dhaka North City Corporation graced the event as the Chief Guest of the Inaugural Ceremony. Furthermore, Honorable Deputy Minister of Education, People's Republic of Bangladesh, Mr. Mohibul Hassan Chowdhury, M.P. was present as the Chief Guest of Closing Ceremony of the first day. The Chief Guest of the Closing Ceremony of the 2<sup>nd</sup> day was none other than Honorable State Minister, Ministry of Information, People's Republic of Bangladesh, Dr. Md. Murad Hassan, M.P.

We were honored to have Dr. Saifur Rahman, Professor, Department of ECE, Virginia Tech, USA; Dr. Vincenzo Piuri, Professor, Department of Informatics, Universita' DegliStudi di Milano, Milano, Italy; Dr. Ramakrishna Kappagantu, IEEE PES Governing Board MAL, IEEE MGA Board Member, and uty Minister of Education, People's Republic of Bangladesh, Mr. Mohibul Hassan Chowdhury, M.P. was present as the Chief Guest of Closing Ceremony of the first day. The Chief Guest of the Closing Ceremony of the 2<sup>nd</sup> day was none other than Honorable State Minister, Ministry of Information, People's Republic of Bangladesh, Dr. Md. Murad Hassan, M.P.

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Dr. Shaikh Fattah, Professor, Department of EEE and Director, Institute of Nuclear Power Engineering (INPE), BUET and Dr. Celia Shahnaz, Chair, IEEE Bangladesh Section, and Professor, Department of EEE, BUET presented the road map for the campaign. Team Leads, Ambassadors and Team-Members from IEEE Bangladesh Section gathered from all over the country presented their updates on major areas of the Smart City Concept, for instance, Electricity and Power, Transportation, Education, Information, Communication, Security, Healthcare, Industry & Housing and Environment. There were key personnel and representatives from more than 40 government and non-government organizations, institutions, and industries. The event was inaugurated by a very insightful speech from Honorable Mayor, Mr. Md. Atiqul Islam. In his speech, he expressed the necessity of smart people to create a smart Dhaka city. He also

conveyed his expectation that the two-day-long program will bring out effective solutions to many problems of Dhaka city. Eventually, the Keynote Speakers Dr. Ramakrishna Kappagantu, IEEE PES Governing Board MAL, IEEE MGA Board Member, and IEEE Smart Cities Steering Committee Member; Dr. Saifur Rahman, Professor, Department of ECE, Virginia Tech, USA; Dr. R. Nagaraja, MD-PRDC and PES India Council Chair and Mr. C N Raghupathi, Sr. Vice President cum India Business Head of Infosys took the dais and shared their vision about the implementation of smart city. Invited speakers, namely Azadul Haq, CEO, MAX Group (Power); Rabi-ul-Alam, CEO, EnergyPac Engineering Ltd.; S. M. Noor Uddin, Officer & Director, Summit Bibiyana Power Co. Ltd.; Reduan Hasan Khan, Head of IoT, Grameenphone; Engr. A K M. Mostafa Kamal, Executive Director (Procurement), DESCO; A S M Mahbulul Alam, Former Secretary, BD Advisor, SDG Financing and Localization, UNDP; Engr. Bikash Dewan, Managing Director, Dhaka Power Distribution Company Ltd. (DPDC) and Bazlul Munir, Chief Engineer, PGCB presented their knowledge, experience and advice on the development of this initiative. The 1<sup>st</sup> day of the event was concluded by the Chief Guest of the Closing Ceremony Honorable Deputy Minister of Education, People's Republic of Bangladesh, Mr. Mohibul Hassan Chowdhury, M.P. The 2<sup>nd</sup> day of the program was equally consequential and informative. The Keynote sessions were graced by Dr. Ramakrishna Kappagantu, IEEE PES Governing Board MAL, IEEE MGA Board Member, and IEEE Smart Cities Steering Committee Member and Dr. Vincenzo Piuri, Professor, Department of Informatics, Universita' Degli Studi di Milano, Milano, Italy. The guest speakers presented on this day were Ekhlash Uddin Ahmed, Head of End to End Service Assurance, Akash DTH, Beximco Communication Ltd.; Dr. Md. Sabbir Mostafa Khan, Professor, Dept. of Water Engineering, BUET; Dr. Tanvir Ahmed, Professor, Dept. of Civil Engineering, BUET; Hosene Ara NDC, Managing Director (Secretary), Bangladesh Hi-Tech Park Authority; Md. Rezwana Al Islam, Vice President, Robi Axiata Ltd.; Rashedul Islam, Additional Secretary, ICT Division Bangladesh; Md. Farrukh Imtiaz, Senior General Manager, Technology, Summit Communications Limited; Munni Saha, Head of News, Bangladesh Institute of Journalism and Electronic Media; Engr. Md. Harunor Rashid, COO, Cross-world Power Ltd.; Maruf Ahmed, General Manager, SCM, Cross-world Power Ltd; Abdus Salam, Head of Network Solutions, Ericsson

(Malaysia, Bangladesh, Sri Lanka); Dr. Md. Abdus Salam, Member (Engineer), Bangladesh Atomic Energy Commission (BAEC); Dr. Shamsuzzoha, Deputy Director, Engineering & Operations Division, Bangladesh Telecommunication Regulatory Commission (BTRC); Dr. Sayed Md. Ihsanul Karim, Director, BITAC; Mohammed Enayetur Rahman, President, Ulkasemi; Khaled Mahmud, Chairman, BPDP; Sufi Faruq Ibne Abubakar Director, QISI; Md. Shahab Uddin, Managing Director, Teletalk Bangladesh Ltd. And Nazmul Islam, ADC, Cyber Crime, DMP. The two-day-long program came to an end with a very perceptive speech from the Chief Guest of the Closing Ceremony of the 2<sup>nd</sup> day Honorable State Minister, Ministry of Information, People's Republic of Bangladesh, Dr. Md. Murad Hassan, M.P. He stated the importance of implementing smart technology through utilizing Internet of Things (IoT), Big Data, Machine Learning and Deep Learning. As a doctor himself, Honorable Minister emphasized the significance of smart technology in medical and genetic engineering field as well. Lastly, he expressed his gratitude towards IEEE Bangladesh Section and IEB for organizing such a campaign which will take Dhaka city a step closer to become an exemplar of a smart city.



**25. Event Name: IEEE Smart City Initiatives post event meeting**

**Date: September 24, 2019**

**Venue: Spicy Ramna, Dhaka**

**Host: IEEE Bangladesh Section**

**No. of Participants: 7**



**26. Event Name: Inaugural ceremony of 5<sup>th</sup> International Conference on Advances in Electrical Engineering (ICAEE)**

**Date: September 26-28, 2019**

**Venue: Independent University, Bangladesh**

**Host: Department of Electrical and Electronic Engineering, Independent University Bangladesh**

**Technical Co-sponsor: IEEE Bangladesh Section**



**27. IEEE Bangladesh Section WePower Track: A World Bank Initiative at ICAEE 2019**

**Date: 26th September 2019**

**Venue: IUB**

**Host: IEEE Bangladesh Section.**

**Co-hosts: Women In Engineering Affinity Group of IEEE Bangladesh Section and Women In Engineering Affinity Group, IEEE IUB Student Branch.**

IEEE Bangladesh Section (IEEE BDS) and IEEE Women in Engineering Affinity Group IEEE Bangladesh Section (WIE AG BDS), collaborating with WIE AG of IEEE IUB Student Branch, organized a special track titled “IEEE Bangladesh Section WePower Track: A World Bank Initiative” on September 26th 2019, at the 5th International Conference on Advances in Electrical Engineering (ICAEE 2019). Anamika Bhakta, Vice Chair of Technical Regulation, Robi Axiata Ltd. and current chair of Women in Engineering Affinity Group of IEEE Bangladesh Section, chaired the session. Upon her invitation, the first speaker of the session, Nafisa Zarrin Tasnim, Senior Engineer, R&D Division, Energypac Engineering Limited, took the podium and talked about how the operations of Energypac have been contributing to the Power and Energy Sector of the country. She played an illustrative video of showing intriguing aspects of the company and its contributions. After a speaker from the Industry, next on stage was a speaker from the academia - Shoilie Chakma, Lecturer, Department of EEE, Bangladesh University of Engineering and Technology. Ms. Shoilie addressed the younger portion of the audience and conducted an enjoyable interactive speech taking them on a virtual journey of best practices from student to professional level. She offered them several tips and advice on how they can align their interests so that they are primed for contribution in the power and energy sector of the country. The final speaker, was from the government sector. Jorifa Khatun, Deputy Director (XEN), System Planning, Bangladesh Power Development Board, captured the audience attention through a highly informative speech on the current status of power and energy sector in Bangladesh, the status quo of women serving in that field and the plethora of opportunities waiting them. Citing the World Bank statistics that only 2-15% of contributors in the power field are women, Ms. Jorifa remarked that it is surely to change as the Government has taken many steps to ensure suitable working environment for female engineers in the field. She emphasized that work in the power and energy sector can be done equally efficiently by both male and female engineers and encouraged the attending students to consider these scenarios. After first half with the three speakers from industry, academia and govt. sectors, the session moved on its second segment, which was a panel discussion. Dr. Lamia Iftekhar, Associate Professor from North South University, and current Vice-Chair (Technical) of Women In Engineering Affinity Group of IEEE Bangladesh Section, served as the moderator of the panel. The panel consisted of three dynamic guests,

Ms. Tanuja Bhattacharjee, Energy Specialist from the World Bank, Ms. Nasheeba Selim, Sr. Social Development Specialist (Gender), Asian Development Bank and Ms. Raisa Rahman from the Human Resources of Infrastructure Development Company Limited (IDCOL). Ms. Tanuja explained briefly about how multilateral development banks such as the World Bank, have been contributing to the power sector of the of the country. Asian Development Bank, Ms. Nasheeba's institution, also made similar contributions and for the panel, she focused on the different operations taken by her institutions for gender mainstreaming and women empowerment. She alluded to the importance of accepting the socio-economic factors for the efficient deployment technological solutions. The third panelist represented IDCOL, an institution that specializes in renewable energy, particularly solar panel systems. Ms. Raisa addressed the student portion of the audience directly giving them an insight into how the energy sector hires fresh graduates and the qualifications that are sought from the candidates. Ms. Raisa also mentioned that her institution is considering an internship plan for stronger collaboration with the academia. In the second round of the panel discussion, the panelists explained the WePower Initiative to the audience and pointed out how this initiative has been taken to encourage the inclusion, retention and empowerment of women at different levels of their career (from higher studies to top leadership) in the power and energy sector. The end of the session consisted of taking a group picture with the guests and the audience, as well, as, presenting the valued speakers and panelists with token of appreciation. Dr. Celia Shahnaz, Chair, IEEE Bangladesh Section, shared her valuable insights and made the concluding remarks for the session. This multi-item session, which brought together experts from the power and energy sectors of Bangladesh from all three domains (industry, academia and govt.), has presented the audience with a comprehensive picture of the opportunities in the sector, and has thus been a grand success.



**28. Event Name: 2nd International Conference on Bangla Speech and Language Processing**

**Date: September 27 - 28, 2019**

**Venue: Dr. M A Wazed Miah IICT Building, Shahjalal University of Science and Technology**

**Host: East West University, Dhaka, Bangladesh**

**Technical Co-sponsor: IEEE Bangladesh Section**





**29. Event Name: Demystifying Nuclear Importance of Nuclear Power in Context of Bangladesh**

**Date: September 27, 2019.**

**Venue: Shahjalal University of Science and Technology**

**Host: IEEE SUST Student Branch.**

**Cohost: IEEE Bangladesh Section.**

**Number of participants: 23**

**Speakers:**

**Prof. Dr. Celia Shahnaz, Chair, IEEE Bangladesh Section, BUET, Dhaka, Bangladesh.**

**Prof. Dr. Shaikh Fattah, Chair, IEEE HAC Bangladesh Section, BUET, Dhaka, Bangladesh.**



### **30. Seminar on Control of Networked Multirobot Systems**

**Date: 1st October 2019**

**Venue: EWU**

**Host: IEEE Bangladesh Section.**

**Co- host: WIE AG, IEEE Bangladesh Section and IEEE EWU Computer Society Student Branch Chapter.**

IEEE Bangladesh Section (IEEE BDS) and IEEE Women in Engineering Affinity Group IEEE Bangladesh Section (WIE AG BDS), collaborating with IEEE EWU Computer Society Student Branch Chapter, organized a technical seminar titled “Control Of Networked Multirobot Systems” on 1st October 2019 at East West University, Dhaka, Bangladesh. Dr. Lamia Iftekhar, Associate Professor at North South University and the current Vice Chair (Technical) of Women in Engineering Affinity Group of IEEE Bangladesh Section conducted the seminar. The event was opened by Sadia Sharmin, Lecturer of CSE at the host institution, who provided introductory remarks. Dr. Lamia then gave an interactive presentation on the fundamentals of multi-robot control and its application in various domains. She provided a few gateway resources for the interested students and encouraged them to explore the topic from his or her domain of interest. A fun quiz followed the seminar, and the quizzes were peer graded right afterwards. Dr. Lamia presented the top three performers with small prizes. The event ended with the student leaders presenting the speaker with a token of appreciation. A total of 26 students attended the event, out of which 12 were IEEE members.



**31. Event Name: IEEE Mobile Application Development Contest (MADC)**  
promotional activity

**Date: October 5, 2019.**

**Venue:**

**Host: IEEE Bangladesh Section**

**Co-Host:**

**Number of participants:**

**Video Link: <http://bit.ly/IEEEBDSMADC>**

**32. Event Name: IEEE Xtreme Programming Contest promotional activity.**

**Date: October 19, 2019.**

**Venue:**

**Host: IEEE Bangladesh Section**

**Co-Host:**

**Number of participants:**

**Video Link: <http://bit.ly/IEEEBDSXTREME>**

**33. Event Name: IEEE Day Celebration**

**Date: October 11, 2019.**

**Venue: VC Seminar Room, Ahsanullah University of Science and Technology, 141-142 Tejgaon Industrial Area, Dhaka, Bangladesh.**

**Host: IEEE Bangladesh Section**

**Cohost: IEEE AUST Student Branch, AUST Student Branch's Power and Energy Society Chapter, Signal Processing and Communication Society Joint Chapter and its Women in Engineering Affinity Group**

**Number of participants: 67 (IEEE Members – 58)**

IEEE Bangladesh Section celebrated IEEE Day 2019 on Friday, October 11, 2019 from 10:20 am to 1:50 pm at the VC Seminar Room, Ahsanullah University of Science and Technology, Tejgaon, Dhaka. IEEE AUST Student Branch hosted the event, in association with the mentioned Student Branch's Power and Energy Society Chapter, Signal Processing and Communication Society Joint Chapter and its Women in Engineering Affinity Group.

67 participants from six different universities, among whom around 58 were IEEE members, joined the event to celebrate the IEEE Day 2019. Professor Dr. A.K.M. Ehtesanul Islam, Head, Department of Electrical and Electronic Engineering, AUST, Professor Dr. A.K.M. Baki, Counselor, IEEE AUST Student Branch, Prof. Dr. Engr. Muhibul Haque Bhuyan, Professor and Chairman, Department of Electrical and Electronic Engineering, Southeast University were present among the participants.

The theme of the IEEE Day 2019 by IEEE Bangladesh Section was *'Commitment of ensuring a safe environment in the university campus by engaging more students in IEEE for retaining and advancing research and technology for the benefit of humanity.'*

The event started at 10:20 am in the morning with a minute of silence in the memory of Abrar Fahad, a former Bangladeshi Student of the Department of EEE, BUET who had been brutally killed and upon his memory, all the participants wore a black badge and the festivities and decorations were avoided in the event.

Professor Dr. A.K.M. Ehtesanul Islam delivered the opening speech of the event, where he focused on the safety and security issues of the students in the University campuses and inspired the audience to get more involved in IEEE to grow as a volunteer for the greater benefits of the society. Professor Dr. Celia Shahnaz, Chair, IEEE Bangladesh Section, sent her warm regards and wishes for the success of the event via her message, which was read out to the audience by Ms. Anamika Bhakta, Chair, IEEE BDS WIE Affinity Group. Then Professor Dr. A.K.M. Baki, Counselor, IEEE AUST Student Branch took the stage for the speech by the Counselor of the host Branch.

The Technical sessions started shortly after that with a Talk on ‘Smart City Initiatives of IEEE Bangladesh Section’ By Mr. Shajib Ghosh, Secretary, IEEE EMBS Bangladesh Chapter and Team Lead, ‘Smart city Initiative by IEEE Bangladesh Section’. His presentation contained an overview of the smart city concept in Bangladesh and the prospects of various components of smart cities, suggested by the Smart city Campaign ambassadors and volunteers.

Mr. Abul Al Arabi, Award Coordinator, IEEE Bangladesh Section presented a technical talk on ‘Robotics and Signal Processing Applications’. Aspects of robotics and its practical implementation as well as its demand in the futuristic engineering world were particularly highlighted in his session.

The following session was ‘WIE and Telco Industrial talk’ presented by Ms. Anamika Bhakta, Vice-President, Robi and Chair, IEEE BDS WIE Affinity Group and this particularly informative session was followed by a tea and snacks break.

The sessions resumed with a Technical talk on 5G by Prof. Dr. A.K.M. Baki, Counselor, IEEE AUST SB. The potential features and advancements of the 5G technologies were focused on his session.

This session was followed by an Industrial Talk on Nuclear Power Energy, presented by Nur Mohammad Antor, Chair, IEEE AUST Student Branch. He accentuated on the urgencies of finding renewable energy sources and briefly discussed the mechanisms of a Nuclear Power Plants. In the final interactive session one representative from each participating university came up on the stage to take part in an idea sharing contest based on the theme of IEEE Day 2019 celebration event by IEEE Bangladesh Section. The participants gathered on the stage to cut a cake and took a group photo together with the IEEE Day 2019 official T-shirts put on. The event came to a conclusion with lunch offered to every participant.

