



IEEE BANGLADESH SECTION NEWSLETTER

ISSUE 1



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

As the chair of IEEE Bangladesh Section, it gives me immense pleasure to know that IEEE Bangladesh Section is going to publish the very first issue of this year's newsletter. From its formation in 1993, IEEE Bangladesh Section has progressed with flying colors of all fronts in the last 25 years. At present it has 37 student branches and 9 chapters and societies. This section has organized a lot of seminars, workshop, tech talk on different topics which is really beneficial and help the student to know more about the field of engineering and technology and help to learn about research methodology. I would like to express my sincere gratitude to all the members who are working with IEEE Bangladesh Section and made all the events successfully happen. In this first issue, every vital event that expresses the hard-work and vision of IEEE Bangladesh Section is presented. All the events were successfully organized by the Section, Student Branches, Affinity Groups, and Societies. I wish all the team members good luck and this edition of the newsletter a good success.



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.

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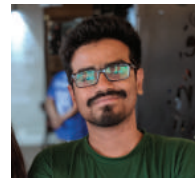


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1. IEEE BANGLADESH SECTION ACTIVITIES

A. FLAGSHIP ACTIVITIES

IEEE BANGLADESH SECTION VITALITY SUMMIT 2018

IEEE Bangladesh Section organized “IEEE Bangladesh Section Vitality Summit 2018” on 28 April, 2018 at ECE Building, BUET, Dhaka to meet each sub-committee members of IEEE Bangladesh Section and executive committee members of IEEE Bangladesh Section Young Professionals and IEEE Bangladesh Section Women in Engineering Affinity Group and to share the year-long activities of IEEE Bangladesh Section in 2018.

Dr. Celia Shahnaz, Chair, IEEE Bangladesh Section, Yeasir Arafat, Vice-Chair (Activity), IEEE Bangladesh Section, Mohammad Zakaria Haider, Secretary, IEEE Bangladesh Section, Md. Romael Haque, Treasurer, IEEE Bangladesh Section, Dr. Shaikh Anowarul Fattah, Nominations and Appointments Chair, IEEE Bangladesh Section, Dr. M. Tanseer Ali, Professional Activity Co-ordinator, IEEE Bangladesh Section, Dr. Mohammed Imamul Hassan Bhuiyan, Awards Activity Co-ordinator, IEEE Bangladesh Section, Shams Shad Islam Khan, Student Activity Co-ordinator, IEEE Bangladesh Section, Dr. Farseem Mannan Mohammedy, Newsletter Editor, IEEE Bangladesh Section, Rakibul Islam Chowdhury, Humanitarian Activity Co-ordinator, IEEE Bangladesh Section, Raihan Ur Rashid, Publicity Co-ordinator, IEEE Bangladesh Section and Azfar Adib, Industrial Activity Co-ordinator, IEEE Bangladesh Section were present along with about 50 sub-committee and executive members. The session started at 4 PM.



Mohammad Zakaria Haider, Secretary, IEEE Bangladesh Section, started the session by giving a brief overview of IEEE Bangladesh Section Activities for the first four months of this year 2018.

Then Dr. Celia Shahnaz, Chair, IEEE Bangladesh Section started her session by giving a brief speech on IEEE Bangladesh Section and its recent activities. She also discussed the achievements of IEEE Bangladesh Section. She explained the challenges faced by IEEE Bangladesh Section and shared her vision for the betterment of the future of IEEE in Bangladesh.

Later, Md. Romael Haque, Treasurer, IEEE Bangladesh Section talked about financial documentation process and funding procedure of IEEE Bangladesh Section.

After that, Yeasir Arafat, Vice-Chair (Activity), IEEE Bangladesh Section, shared some valuable experiences about the problems he had to face as a former treasurer of IEEE Bangladesh Section and gave brief instructions to the sub-committee and executive members about the ways of applying for budget and reporting to the treasurer.

Then, Shams Shad Islam Khan, Student Activity Co-ordinator, IEEE Bangladesh Section shared recent programs organized by Student Activity Committee and their upcoming plan. He also introduced his sub-committee members.

Rakibul Islam Chowdhury, Humanitarian Activity Co-ordinator, IEEE Bangladesh Section discussed different activities of the Humanitarian Activity Committee. Then, he introduced his sub-committee members.

After that Dr. M. Tanseer Ali, Professional Activity Co-ordinator, IEEE Bangladesh Section introduced his sub-committee members. This was followed by Raihan Ur Rashid, Publicity Co-ordinator, IEEE Bangladesh Section introducing his sub-committee members.

Azfar Adib, Industrial Activity Co-ordinator, IEEE Bangladesh Section discussed industry and academia collaboration as well as how IEEE helping to develop industrial skills of people. He showed recent events organized by Industrial Activity Committee and their next course of activities. He also introduced his sub-committee members.

In absence of Dr. A. B. M. Aowlad Hossain, Educational Activity Co-ordinator, IEEE Bangladesh Section and Dr. Md. Rabiul Islam, Membership Development Co-ordinator, IEEE Bangladesh Section, one member from each of their sub-committee went ahead and introduced their respective sub-committee members.

At the end of the event, a cake was cut to celebrate the birthday of honorable Dr. Celia Shahnaz, Chair, IEEE Bangladesh Section, and everyone wished her a very happy birthday. A group photo was taken to wrap up the summit.

IEEE BANGLADESH SECTION VITALITY ENHANCEMENT SERIES EVENT 1



IEEE Bangladesh Section in collaboration with IEEE Jahangirnagar University Student Branch organized a day-long event "IEEE Bangladesh Section Vitality Enhancement Series Event 1" on 16 May 2018 at IIT, JU. It was the pioneering event of the IEEE Bangladesh Section Vitality Enhancement Event Series.

The event included a workshop on IoT and a Membership Drive. The IoT workshop was conducted by Rakibul Islam Chowdhury, Humanitarian Activity Coordinator, IEEE Bangladesh Section. Dr. Celia Shahnaz, Chair, IEEE Bangladesh Section conducted the membership drive session. Yeasir Arafat, Vice-Chair (Activity), IEEE Bangladesh Section and Raihan Ur Rashid, Publicity Coordinator, IEEE Bangladesh Section were present as honorable speakers. The event started at 11 AM. 51 participants including both IEEE members and non-members participated in the event.

The instructor of the workshop, Rakibul Islam Chowdhury, Humanitarian Activity Co-ordinator, IEEE Bangladesh Section

started the workshop with an informative speech on the basic structure of IoT and theoretical studies of networks. After all the participants received necessary components, the teams were assigned to hands-on activities and tasks by the instructor.

Dr. Celia Shahnaz, Chair, IEEE Bangladesh Section started the session by giving a brief speech on IEEE Bangladesh Section and its recent activities. She also discussed the achievements of IEEE Bangladesh Section. She explained the benefits and ways of being an IEEE member. She showed the pathway of acquiring numerous skills through IEEE membership.

Then, Yeasir Arafat, Vice-Chair (Activity), IEEE Bangladesh Section, shared his valuable thoughts and experiences about the necessity and steps of proper team building process. He explained how team building can be the key to any organization's success.

After that, Raihan Ur Rashid, Publicity Co-ordinator, IEEE Bangladesh Section talked about the function of publicity for IEEE Bangladesh Section. He gave a brief speech about how publicity is essential for reaching out to all the university branches and developing better co-ordination among them and IEEE Bangladesh Section.

Dr. Md. Wahiduzzaman, Counselor, IEEE JU Student Branch honored the guests with tokens of appreciation. The event concluded at 5 pm with a group photo of all the participants with the guests.

IEEE BANGLADESH SECTION STUDENT BRANCH EXCOM SUMMIT 2018



IEEE Bangladesh Section along with IEEE Bangladesh Section Student Activity Committee (SAC) and IEEE Eastern University Student Branch successfully organized the IEEE BDS Student Branch Ex-Com Summit 2018 on 18th May 2018 at Eastern University. Total 112 individuals including branch counselors, branch chairs and other executive members from 28 different universities came together under the same roof to turn the day into an immensely productive and informative one.

The branch executives from every university who were present were given the opportunity to receive insightful advising and guidelines from the current Bangladesh Section Ex-Com members themselves. The opening speech was delivered by Prof. Dr. Md. Mahfuzur Rahman, Dean, Faculty of Engineering and Technology, Eastern University and Counselor, IEEE EU Student Branch. Dr. Shaikh

Anowarul Fattah, Chairman of Nominations and Appointments Section, IEEE BDS delivered his speech on 'Quality project proposal writing for possible funding'. Mr. Yeasir Arafat, Vice-Chair (Activity), IEEE BDS delivered his speech on 'IEEE VOLT'. Rakibul Islam Chowdhury, Humanitarian Activities Coordinator, IEEE BDS delivered his speech on 'Humanitarian Activity'. Raihan Ur Rashid, Publicity Coordinator, IEEE BDS delivered his speech on 'IEEE Design Standard and Norms'. Speeches on 'IEEE CLE', 'IEEE Event Reporting', 'IEEE Financial Reporting' and 'IEEE Student Branch Counselor Responsibilities' were delivered respectively by Shams Shad Islam Khan, Student Activity Coordinator, IEEE BDS and Abhijit Biswas, SSR, IEEE BDS, Mohammad Zakaria Haider, Secretary, IEEE BDS, Md. Romael Haque, Treasurer, IEEE BDS and Dr. M. Tanseer Ali, Professional Activity Coordinator, IEEE BDS. Prof. Dr. Celia Shahnaz, Chair, IEEE BDS delivered her speech on 'IEEE BDS Vision 2018' and 'IEEE Award Nomination' and shared the year-long activities of IEEE Bangladesh Section in 2018. Engr. Kh. Mesbah Uddin Ahmed, Chairman,



Board of Trustees, EU; Prof. Dr. Md. Nurul Islam, Vice Chancellor, EU; Prof. Dr. Md. Aminul Hoque, Advisor, Faculty of Engineering and Technology, EU delivered their motivational speeches regarding the core value of IEEE activities and Eastern University standing to lead it to a step ahead. All the student branches presented their updated executive committee list along with their future plans about events and also their expectations from the section executives in the upcoming months.

A competition was held between the different student branches based on their slide and poster presentations in order to encourage them to excel better in the future with more quality events and impactful activities. The day drew to an end with an iftar party in which all the Speakers, Guests, Counselors and Student Branch executives took part to celebrate the first iftar of the holy month of Ramadan

together, Shams Shad Islam Khan, Student Activity Coordinator, IEEE Bangladesh Section, Rakibul Islam Chowdhury, Humanitarian Activity Co-ordinator, IEEE Bangladesh Section, Dr. M. Tanseer Ali, Professional Activity Co-ordinator, IEEE Bangladesh Section, Raihan Ur Rashid, Publicity Co-ordinator, IEEE Bangladesh Section and Azfar Adib, Industrial Activity Co-ordinator, IEEE Bangladesh Section introduced their respective sub-committee members. In absence of Dr. A. B. M. Aowlad Hossain, Educational Activity Co-ordinator, IEEE Bangladesh Section and Dr. Md. Rabiul Islam, Membership Development Co-ordinator, IEEE Bangladesh Section, one member from each of their sub-committee went ahead and introduced their respective sub-committee members.

B. MEMBERSHIP DEVELOPMENT AND RETENTION ACTIVITIES

SEMINAR ON IEEE MEMBERSHIP DEVELOPMENT AT RUET



A seminar on IEEE Membership Development was held on 8th February, 2018 at ECE Seminar Room, RUET. IEEE Bangladesh Section along with IEEE RUET Student Branch organized the seminar.

Prof. Dr. Celia Shahnaz, Chair, IEEE Bangladesh Section, Md Zakaria Haider, Secretary, IEEE Bangladesh Section and Md Romael Haque, Treasurer, IEEE Bangladesh Section were present as the honorable speakers of the event. The seminar started at 2:30 PM. Though it was the middle of the day and scorching sun was on top the head to remind the last few days of winter, around 70 students including both IEEE members and non-members were present.

Honorable Chair of IEEE Bangladesh Section, Dr. Celia Shahnaz started her session by sharing her achievements and all the odds she faced along with other trailblazers in bringing the section in such a magnificent position. She put lights on the different tracks the section has worked on in the last few years for the professional and ethical development of the members.

Then, in his session, MD. Romael Haque, Treasurer of IEEE Bangladesh Section, showed the membership growth of the section which is the highest in the entire world.

Later, Mohammad Zakaria Haider, Secretary of IEEE Bangladesh Section, discussed about how to develop a humanitarian project as well as how IEEE Bangladesh Section has patronized different humanitarian activities which resulted to be the best section in humanitarian activities worldwide.

In the meanwhile, our beloved sir Prof. Dr. Ajay Krishna Sarkar, Head, Dept. of EEE, RUET arrived on the seminar. End of the seminar, Dr. Ajay Krishna Sarkar presented gifts to our honorable speakers as a sign of gratitude.

A SESSION ON IEEE BANGLADESH SECTION MEMBERSHIP DEVELOPMENT & ACTIVITIES AT THE UNIVERSITY OF RAJSHAHI

A session on IEEE Bangladesh Section Membership Development & Activities was held on 8th February, 2018 at Seminar Room, Dept. of EEE, University of Rajshahi. IEEE Bangladesh Section along with IEEE Student Branch RU organized the seminar.

Prof. Dr. Celia Shahnaz, Chair, IEEE Bangladesh Section, Associate Prof. Mr. Yeasir Arafat, Vice Chair (Activity), IEEE Bangladesh Section, Md Zakaria Haider, Secretary, IEEE Bangladesh Section and Md Romael Haque, Treasurer, IEEE Bangladesh Section were present as the honorable speakers of the event. The session started at 3:40 PM. Around 40 students including both IEEE members and non-members were present.

Honorable Chair of IEEE Bangladesh Section, Dr. Celia Shahnaz started her session by sharing her achievements and all the odds she faced along with other trailblazers in bringing the section in such a magnificent position. She put lights on the different tracks the section has worked on in the last few years for the professional and ethical development of the members.

In the second session Mr. Yeasir Arafat, Vice Chair (Activity), IEEE Bangladesh Section, shared the challenges IEEE Bangladesh Section faced in the previous years and the honors IEEE Bangladesh Section achieved.

Then, in his session, MD. Romael Haque, Treasurer of IEEE Bangladesh Section, showed the membership growth of the section which is the highest in the entire world.

Later, Mohammad Zakaria Haider, Secretary of IEEE Bangladesh Section, discussed how to develop a humanitarian project as well as how IEEE Bangladesh Section has patronized different humanitarian activities which resulted to be the best section in humanitarian activities worldwide.

In the Session Dr. Mirza Rashidul Hasan, Professor, Dept. of EEE, University of Rajshahi, Dr. Muhammad Sajjadur Rahim, Associate Professor, Dept. of EEE, University of Rajshahi and Dr. Sinthia Shabnam, Associate Professor, Dept. of EEE, University of Rajshahi were present in the session. At the end of the session speakers were given gifts as a token of gratitude and a group photo was taken.

SEMINAR ON INTRODUCTION TO IEEE – THE WORLD’S LARGEST PROFESSIONAL ORGANIZATION AT UNIVERSITY OF DHAKA

IEEE Bangladesh Section, supported by IEEE Student Branch DU and IEEE WIE AG SB DU successfully organized the seminar on “Introduction to IEEE: World’s Largest Professional Organization” on 4th April 2018 at Department of Electrical and Electronic Engineering, University of Dhaka. The seminar focused on discussing membership benefits, values, and services of IEEE.

Prof. Celia Shahnaz, Chair, IEEE Bangladesh Section, Md. Zakaria Haider, Secretary, IEEE Bangladesh Section, Md. Rakibul Islam Chowdhury, Humanitarian Activities Coordinator, IEEE Bangladesh Section, and Raihan Ur Rashid, Publicity Coordinator, IEEE Bangladesh Section, Shams Shad Islam Khan, Student Activity Coordinator, IEEE Bangladesh Section were present as the honorable speakers of the event. Md. Romael Haque, Treasurer, IEEE Bangladesh Section was also present at the event. The session started at 3:30 PM. Around 50 students,



most of whom are IEEE members, were present.

The first speaker of the seminar, Md. Zakaria Haider, Secretary, IEEE Bangladesh Section talked about IEEE, its structure and global activities. After that, Rakibul Islam Chowdhury, Humanitarian Activities Coordinator, IEEE Bangladesh Section, shed some light on the IEEE's global humanitarian agendas and IEEE Bangladesh Section's humanitarian activities and efforts. Honorable Chair of IEEE Bangladesh Section, Dr. Celia Shahnaz started her session with the message of yearlong celebration of 25th year of IEEE Bangladesh Section and later explained the benefit of joining IEEE and described some of the notable events of IEEE Bangladesh Section last year. Raihan Ur Rashid, Publicity Coordinator, IEEE Bangladesh Section, shared some statistics and previous global achievements of IEEE Bangladesh Section and its members. The last speaker of the event, Shams Shad Islam Khan, Student Activity Coordinator, IEEE Bangladesh Section, spoke about future events IEEE Student Activities Committee (SAC) is organizing and how to apply for hosting these events.

Lastly Dr. Md. Atiqur Rahman Ahad, Mentor of IEEE SB DU and Md. Zahidul Islam Raju, Branch Counselor of IEEE SB DU were present and concluded the event by giving tokens of appreciation to honorable guests.

INTERACTIVE SESSION WITH IEEE BANGLADESH SECTION AT IIUC

IEEE Bangladesh Section along with IEEE International Islamic University Chittagong (IIUC) Student Branch and Faculty of Science & Engineering (FSE), IIUC successfully organized a seminar titled "Interactive sessions with IEEE Bangladesh Section Chief Executives" on 21st April, 2018 at the seminar room of Central Auditorium, International Islamic University Chittagong (IIUC).

The event was conducted by Dr. Celia Shahnaz, Professor, Dept. of EEE, BUET and Chair, IEEE Bangladesh Section, Mr. Yeasir Arafat, Associate Professor, Department of EEE, BUET and Vice-Chair (Activity), IEEE Bangladesh Section, Mr. Mohammed Zakaria Haider, Grameen Phone Limited and Secretary, IEEE Bangladesh Section.



The event was conducted into three sessions. At first, Mr. Zakaria Haider gave his speech on what is IEEE and what IEEE does, the past and present membership, achievement statistics of IEEE Bangladesh Sections, the various student branch, affinity groups & chapters of IEEE Bangladesh Section.

Then Mr. Yeasir Arafat talked conducted his session on the scopes of Volunteering & IEEE VOLTE Program.

Finally, Ms. Celia Shahnaz gave her informative speech on the latest trends and research topics of "Biomedical Engineering". She also talked about the scopes of Biomedical Engineering & her research works in her session.

The sessions were ended with Vote of thanks by Prof. Dr. Monirul Islam, Dean, Faculty of Science & Engineering, IIUC followed by refreshment for the participants.

C. NEW STUDENT BRANCH INITIATIVES

SESSION ON IEEE BANGLADESH SECTION MEMBERSHIP DEVELOPMENT & ACTIVITIES AT DHAKA INTERNATIONAL UNIVERSITY

A session on IEEE Bangladesh Section Membership Development & Activities was held on 30th March 2018 at Auditorium, Dept. of EETE, Dhaka International University. IEEE Bangladesh Section along with Department of EETE, DIU organized the seminar. Prof. Celia Shahnaz, Chair, IEEE Bangladesh Section, Prof. Shaikh Anowarul Fattah, Nomination and Appointment Chair, IEEE Bangladesh Section, Rakibul Islam Chowdhury, Humanitarian Activity Coordinator, IEEE Bangladesh Section and Abdullah Rocky, Chair, IEEE Young Professionals Affinity Group Bangladesh Section were present as the honorable speakers of the event. The session started at 4:30 PM. Around 150 students and 9 faculties of DIU were present.

Honorable Chair of IEEE Bangladesh Section, Dr. Celia Shahnaz started her session with the message of yearlong celebration of 25th year of IEEE Bangladesh Section. After her introduction, she explained her vision pictorially and described some of the notable events of IEEE Bangladesh Section last year.

In the second session, Rakibul Islam Chowdhury showed the slides on the honors IEEE Bangladesh Section achieved and the continuation of these achievements. Later, he discussed how to develop a humanitarian project as well as how IEEE Bangladesh Section has patronized different humanitarian activities.

The presentation of Abdullah Rocky inspired the graduating students of DIU present among the audience. He shed light on both industry-academia collaboration, IEEE Bangladesh section has conducted and after graduation skill development.

The students were mesmerized by the technical talk titled "Automatic Disease Detection Using Machine Learning Schemes for Biomedical Engineering" delivered by Professor Shaikh Anowarul Fattah. He presented some complex machine learning algorithms in plain language so that everyone can understand it. He also showed some real-world applications in biomedical engineering using them.

Among the faculties of Dhaka International University, ATM Dr. Mahabubur Rahman, Dean, Faculty of Science and Engineering, Dr. Abdul Mannan, Professor, Md. Tareq, Assistant Professor, Majidul Islam and Rajat Chakraborti, Lecturer were present. MD. Abdul Bashed, Chairman of Department of EETE, DIU was also present at the event. In his closing remark, he thanked the speakers for conducting the session in DIU and also expressed his keen interest to open up a student branch in his university.



A SESSION ON IEEE BANGLADESH SECTION MEMBERSHIP DEVELOPMENT & ACTIVITIES AT VARENDRA UNIVERSITY



A session on IEEE Bangladesh Section Membership Development & Activities was held on 8th February, 2018 at Seminar Room, Dept. of EEE, Varendra University. IEEE Bangladesh Section along with E-Club, Dept. of EEE, Varendra University organized the session.

Prof. Dr. Celia Shahnaz, Chair, IEEE Bangladesh Section, Associate Prof. Mr. Yeasir Arafat, Vice Chair (Activity), IEEE Bangladesh Section, Md Zakaria Haider, Secretary, IEEE Bangladesh Section and MD Romael Haque, Treasurer, IEEE Bangladesh Section were present as the honorable speakers of the event. The session started at 5:00 PM. Around 40 students including both IEEE members and non-members were present.

Dr. Celia Shahnaz, Chair of IEEE Bangladesh Section, started the session. She shared her achievements and all the challenges she

faced along with other odds in bringing the section in such a magnificent position and also discussed the different tracks the section has worked on in the last few years for the professional and ethical development of the members.

In the second session Mr. Yeasir Arafat, Vice Chair (Activity), IEEE Bangladesh Section, discussed the challenges IEEE Bangladesh Section faced in the previous years and the honors IEEE Bangladesh Section achieved.

Then, MD. Romael Haque, Treasurer of IEEE Bangladesh Section, talked about membership efforts of IEEE Bangladesh Section and showed the membership growth of the section which is the highest in the entire world.

Later, Mohammad Zakaria Haider, Secretary of IEEE Bangladesh Section, discussed the importance of humanitarian aspects of IEEE and how to develop a humanitarian project as well as how IEEE Bangladesh Section has patronized different humanitarian activities which resulted to be the best section in humanitarian activities worldwide.

Muhammad Sajjadur Rahim, Associate Prof., Dept. of EEE, Varendra University and Coordinator, E-Club, Dept. of EEE, Varendra University was present in the session along with more than 15 other faculty members. At the end of the session speakers were given gifts as a token of gratitude and a group photo was taken.

D. HUMANITARIAN ACTIVITIES

WORKSHOP ON HUMANITARIAN TECHNOLOGY WITH SUSTAINABLE DEVELOPMENT

IEEE Bangladesh Section Humanitarian Activities Committee (HAC) in collaboration with IEEE Bangladesh Section and IEEE BUET Student Branch arranged a workshop on “Humanitarian Technology with Sustainable Development” on 25 April 2018 at ECE Building, BUET.

Rakibul Islam Chowdhury, Humanitarian Activity Co-ordinator, IEEE Bangladesh Section hosted the event. The workshop was conducted by Dr. Shaikh Anowarul Fattah, Education Chair, IEEE Humanitarian Activities Committee. Dr. Lamia Iftekhar, Assistant Professor, Dept. of ECE, North South University was also present. The session started at 5:30 PM. About 40 participants including both IEEE members and non-members participated in the workshop.



The host of the event, Rakibul Islam Chowdhury, Humanitarian Activity Coordinator, IEEE Bangladesh Section started the event by giving a brief introductory speech on humanitarian technology, IEEE HAC and its different aspects.

Dr. Shaikh Anowarul Fattah, Education Chair, IEEE Humanitarian Activity Committee began his session by emphasizing the importance of service to the local community and encouraged students to focus on local community-based projects. He insisted on the need for the project makers and innovators to reach out to organizations like IEEE HAC and IEEE SIGHT. Before moving on to talk about the steps of developing a proper Humanitarian project, he encouraged everyone to always be enthusiastic as IEEE will provide adequate funds for any project that has significant potential. He also elucidated the link between humanitarian activities and the UN’s Sustainable Development Goals (SDGs).

In the latter part of the workshop, Dr. Fattah instructed the participants to form teams of four or less to identify a problem and make their own project proposal for solving it. After about an hour’s time of discussion and planning, the teams were asked to present their proposals and Dr. Fattah attentively listened to all of them. He discussed with them and instructed every team on how to develop their project. Thereafter, all the teams were asked to write down a short description of their project. The event ended with a small token of appreciation given to Dr. Fattah from IEEE Bangladesh Section Humanitarian Activities Committee and IEEE BUET Student Branch.

E. PROMOTING RESEARCH ACTIVITIES

SEMINAR ON IMPORTANCE OF BIOMEDICAL ENGINEERING EDUCATION: POTENTIALITIES AND CHALLENGES.

A seminar on “Importance of Biomedical Engineering Education: Potentialities and Challenges” was successfully held on 15 February 2018 (Thursday) at Department of Electrical and Electronic Engineering, Hajee Mohammad Danesh Science and Technology University (HU), Dinajpur, Bangladesh. The seminar was jointly organized by the Educational Activity Sub-committee of IEEE Bangladesh Section and IEEE Student Branch of (HSTU). About 90 participants were attended and among them, 36 are the members of IEEE.

The session included a presentation and discussion parts. Prof. Dr. A. B. M. Aowlad Hossain (Ph.D. in Biomedical Engineering) was the keynote speaker. In the context of global scenario, the speaker focused on the prospects Biomedical Engineering as well as the inclusion of curriculum and opening more BME program especially in Bangladesh. Furthermore, the importance of joining in IEEE and membership retention was also discussed. Md. Faruk Kibria, Chairman (Incharge), Department of Electrical and Electronic Engineering, Mr. Md. Safiqul Islam, Counselor, IEEE Student Branch, HSTU and the faculty members of Computer Science and Engineering Faculty of HTSU were present. The seminar ended with an active discussion among the participants.



THE INTERNATIONAL CONFERENCE ON COMPUTER, COMMUNICATION, CHEMICAL, MATERIAL AND ELECTRONIC ENGINEERING (IC4ME2-2018)

The International Conference on Computer, Communication, Chemical, Material and Electronic Engineering (IC4ME2-2018) was held from February 8 to 9, 2018 at the University of Rajshahi in Bangladesh. This conference was a sequel ICMEIE-2015.

Prof. Dr. Celia Shahnaz, Chair, IEEE Bangladesh Section, Associate Prof. Mr. Yeasir Arafat, Vice Chair (Activity), IEEE Bangladesh Section, Md Zakaria Haider, Secretary, IEEE Bangladesh Section and Md Romael Haque, Treasurer, IEEE Bangladesh Section were present as honorable guests.

In the inaugural ceremony of the conference, representing IEEE Bangladesh Section, Professor Dr. Celia Shahnaz, Chairperson, IEEE Bangladesh Section, shared her achievements and all the challenges she faced along with her vision for the betterment of the future of IEEE in Bangladesh.

Professor Dr. M. Abdus Sobhan, Honorable Vice Chancellor, University of Rajshahi was also present in the inaugural ceremony.



The closing ceremony of the conference was held on 9th February 2018. In the closing ceremony MD Romael Haque, Treasurer, IEEE Bangladesh Section, talked about several important and influential activities of IEEE Bangladesh Section and showed demographic and the membership growth of the section which is the 2nd highest in the Region 10. He further showed all the awards the section or the maestros of the section have achieved.

A DAY LONG INTERACTIVE SESSION ON CUET



IEEE Bangladesh Section along with IEEE Student Branch CUET arranged a cluster of events in "A Day Long Interactive Session" on 21st April 2018 from 09:00 AM to 01:30 PM at Chittagong University of Engineering and Technology (CUET). Around 105 members from including 40 IEEE member from Chittagong University of Engineering and Technology (CUET), International Islamic University, Chittagong (IIUC) and Rangamati Science and Technology University (RMSTU) participated in the event.

Prof Dr. Celia Shahnaz, Chair, IEEE Bangladesh Section, Mr. Yeasir Arafat, Vice Chair(Activity), IEEE Bangladesh Section and Mohammad Zakaria Haider, Secretary, IEEE Bangladesh Section were present as the guest speakers of the session.

Honorable Vice Chancellor of CUET, Prof Dr. Rafiqul Alam was the Chief Guest of the session and Prof Dr. Mohammad Moshuiul Hoque, Conference Coordinator, IEEE Bangladesh Section was present as a Special Guest.

The session was instigated with the inauguration of the IEEE CUET WIE Student Branch Affinity Group along with inauguration of a New Logo for IEEE Student Branch CUET in front of the Chief Guest and the guest speakers.

In the first speech session, Professor Dr. Celia Shahnaz, Chair, IEEE Bangladesh Section gave a valuable speech on Scope of Bio-Medical Engineering and how the future of this field is in both global perspective and Bangladesh.

Then Mr. Yeasir Arafat, Vice Chair(Activity), IEEE Bangladesh Section took a training session on IEEE Volunteer Leadership Training Program (VoLT) for volunteers who have a true desire to learn about the broader IEEE and are considering taking leadership positions.

After that Mohammad Zakaria Haider, Secretary, IEEE Bangladesh Section talked about IEEE membership benefits. He also showed the achievements of IEEE Bangladesh Section along with the membership statistics.

There was also a Student Interactive Session where different Posters and ideas were presented by the students. The session was concluded by givings of tokens of appreciation to honorable guests and taking group photos.

F. INDUSTRY ACTIVITIES

TRAINING SESSION ON EMPOWERING THE FUTURE THROUGH IOT



Grameenphone Ltd. in collaboration with IEEE Bangladesh Section and Department of EEE, BUET organized a special training event on the Internet of Things (IoT). The title of the event was "Empowering the Future Through IoT". The event was held on 4th of February 2018 in ECE Building, Bangladesh University of Engineering and Technology. As the seat number was limited only invited guests participated in the session. Various industry affiliated persons and 20 news reporters from top newspapers and electronic media were present in the session as invited guests.

Professor Dr. Celia Shahnaz, Chairperson of the IEEE Bangladesh Section gave the inaugural speech. In her inaugural speech, she mentioned the ongoing humanitarian technology-based research works supported by IEEE Bangladesh Section and emphasized on the industrial sector's collaboration with it. Mahmud Hossain, Chief Corporate Affairs officer

of Grameenphone Ltd. also gave a speech at the inaugural ceremony.

After the inaugural speech, the training sessions started with Dr. Reduan Hassan Khan, Head of IOT at Grameenphone Ltd. In his session, he talked about the Internet of Things (IoT), how it is going to affect the lifestyle of the future and how the industry of today can prepare themselves for its challenges.

On the second session, Mr. Gazi Saharul Habib from Regulatory Affairs of Grameenphone Ltd. talked about regulatory challenges of IoT and different policies of the government. The third session of the event was taken by Dr. Shaikh Anwarul Fattah, Professor, Department of EEE, BUET, Nominations and Appointments Chair, IEEE Bangladesh Section and Chair, IEEE Bangladesh Section for the year 2016. In his session, Dr. Fattah talked about different IoT projects conducting by students of university level in Bangladesh and how to better utilize these projects in collaboration with a company like Grameenphone.

At the last, there was a question-answer session. Chief Corporate Affairs officer of Grameenphone Ltd., Mahmud Hossain conducted this session. Our honorable speakers answered various questions from invited guests and reporters about IOT and its future.

The training session ended with a quiz about IOT. After the quiz, Certificate of Appreciations was handed over to our honorable speakers and guests. There was also a photo session where group photos with everyone present were taken.

FOSTERING R&D INVESTMENT IN BUDGETARY POLICIES THROUGH IEEE ENGAGEMENT

IEEE Bangladesh Section along with IEEE BUET Student Branch and Department of EEE, Bangladesh University of Engineering and Technology (BUET) arranged an event on "Fostering R&D Investment in Budgetary Policies Through IEEE Engagement" on 11 June, 2018 at Room No. 625, ECE Building, Department of EEE, Bangladesh University of Engineering and Technology (BUET). The event started at 02:00 PM at afternoon.

The event was arranged with the vision of upholding a unique platform of communicate between IEEE and industry, facilitating collaboration among organizations and individuals as they refine their thinking on rapidly changing technologies, in Bangladesh.

The program was attended by officials from Energypac Power Generation Ltd, Bangla Trac Ltd, Bangladesh Power Generation Company, Digi Jadoo Broadband Ltd, BASIS, BRAC IT, Grameenphone, Siemens, Robi, Banglalink, Summit Communications, Fibre@home, Link3, Bangabandhu Satellite. Also attended by IEEE Bangladesh Section(BDS) Ex-Com members were present along with the Head of the Department of EEE, BUET, Dr. Md. Shafiqul Islam. The program was hosted by Mr. Azfar Adib, Industrial Activities Co-ordinator, IEEE BDS; Architect, Internet-of-Things(IoT), Grameenphone Ltd.



Mr. Azfar Adib initiated the session by welcoming all the invited guests and briefly focusing on the purpose of the event. Dr. Md. Shafiqul Islam offered his generous support on behalf of the Department of EEE, BUET. He inaugurated the event thereby. Dr. Celia Shahnaz, Chair, IEEE Bangladesh Section and Professor, Dept. of EEE, BUET, talked about the role of IEEE BDS in promoting technology throughout Bangladesh and the possible role of industry in flourishing the technological know-how of students, academicians and industry people alike. Nafisa Zarrin Tasnim, Assistant Engineer, Energypac Engineering Ltd and Professional Activities Coordinator, IEEE Women in Engineering (WIE) Affinity Group Bangladesh Branch, presented how women are engaged in technology and industrial activities all over the world. Md. Romael Haque, Treasurer of IEEE Bangladesh Section, enlightened the attendees on IEEE Young Professionals(YP). He addressed how joining the Young Professionals community right after graduation could lead individuals to unique career opportunities through worldwide seminars, workshops and networking events.

Later, the panel discussion session was started with 6 panel members. They were: Professor Dr. Md. Shafiqul Islam, Head of Dept. of EEE, BUET; Professor Shaikh Anwarul Fattah, Nominations and Appointments Chair, IEEE BDS and Professor, Dept. of EEE, BUET; Mr. Md. Rabiul Alam, Chairman, Energypac Power Generation Ltd.321; Mr. M Jahangir Alam, Chief Executive Officer, Bangla Trac Ltd.; Mr. Sayeef Rahman, Head of Systems and Strategy, Digi Jadoo Broadband Ltd. ; Mr. AK Sabbir Mahbub, Working Committee Member (also Ex-Director), BASIS and Independent Director, BRAC IT Services; Also, by phone, Mr. Mohammad Maksudur Rahman Bhuiyan, Additional Director and Chief Engineer, University Grant Commission (UGC) joined the panel discussion.

In the panel discussion, Professor Shaikh Anwarul Fattah showed concern about the lack of innovation in Industrial Sector of Bangladesh and also lack of any research linkage or academic collaboration between industry and academia. Mr. Md Rabiul Alam Chairman, Energypac Power Generation Ltd., emphasized on the need for government R&D fund aiming at new product development and hoped the government will take some incentives regarding this in future budgets. Professor Dr. Md. Shafiqul Islam, Head of Dept. of EEE, BUET, asked the industry leaders to approach academia with their solution needs. Mr. M Jahangir Alam, Chief Executive Officer, Bangla Trac Ltd., signified the role IEEE can play becoming the link between industry and academia and the need for effective tri-party collaboration (government-industry-academia). Mr. AK Sabbir Mahbub, Working Committee Member (also Ex-Director), BASIS and Independent Director, BRAC IT Services, pointed out the achievement of Bangladesh in

the global avenue which shows the potential of our country if it can be utilized properly. Mr. Sayeef Rahman, Head of Systems and Strategy, Digi Jadoo Broadband Ltd., articulated the insufficiency of fund in the budget for education and ICT sector. As the final panelist Mr. Mohammad Maksudur Rahman Bhuiyan, Additional Director and Chief Engineer, University Grant Commission (UGC) who joined the panel by phone, mentioned some of the endeavours by the government to fund the research and development in different universities and the need of an umbrella platform that can facilitate faster advancement towards the vision of Digital Bangladesh.

The guests were given tokens of appreciation by the Chair of IEEE Bangladesh Section, Professor Dr. Celia Shahnaz. After the event, the Honorable Vice Chancellor of Bangladesh University of Engineering and Technology (BUET) Prof. Dr. Saiful Islam invited the guests at his office for a informal conversation.

IEEE BANGLADESH SECTION MEMBERSHIP DEVELOPMENT & ACTIVITIES SESSION AT GP HOUSE



Grameenphone Ltd. In collaboration with IEEE Bangladesh Section organized an awareness and engagement session on IEEE Bangladesh Section Membership Development & Activities on 16 April 2018 at the GPHOUSE Moydan, Dhaka to commence the IEEE Membership Drive Week in Grameenphone.

Md Zakaria Haider, Secretary, IEEE Bangladesh Section, Azfar Adib, Industrial Activities Co-ordinator, IEEE Bangladesh Section, Irtiza Haque, Industrial Activities Co-ordinator, IEEE Women in Engineering Bangladesh Section and Reduan Hasan Khan, Senior Member, IEEE were present as the honorable speakers of the event. The session started at 10 AM. Around 25 participants including both IEEE members and non-members were present.

The host of the event, Azfar Adib, Industrial Activities Co-ordinator, IEEE Bangladesh Section started the seminar by giving a brief introductory speech on IEEE and its different

aspects.

In the second session, Md Zakaria Haider, Secretary, IEEE Bangladesh Section, explained the structure of IEEE and shared IEEE Bangladesh Section's activities. He also shared some valuable thoughts on industry and academia collaboration.

Then, in her session, Irtiza Haque, Industrial Activities Co-ordinator, IEEE Women in Engineering Bangladesh Section, talked the involvement of women in IEEE and their valuable contributions in developing IEEE.

Later, Reduan Hasan Khan, Senior Member, IEEE discussed the benefits of industry people in IEEE and how they can develop themselves further by involving in different activities of IEEE.

Mahmud Hossain, Chief Corporate Affairs Officer of Grameenphone, former Membership Development Chair of IEEE BDS Ex-Com greeted the participants through a video message. At the end of the session, a group photo was taken.

2. ACTIVITIES OF SOCIETIES AND CHAPTERS, IEEE BANGLADESH SECTION

A. IEEE POWER AND ENERGY SOCIETY BANGLADESH CHAPTER

PES DAY CELEBRATION 2018

The “First Global IEEE PES Day” was celebrated at BUET on 23rd of April 2018, organized by IEEE Power and Energy Society (PES) Bangladesh Chapter in association with IEEE Bangladesh Section. This event commemorates the 10th year anniversary of the new PES name. The basic goal of celebrating this day was to familiarize the participants and volunteers about IEEE PES’s history, outreach, goals and vision of “More Power to the Future” and its five pillars.



Dr. Shaikh Anowarul Fattah, Nominations and Appointments Chair, IEEE Bangladesh Section, Dr. Celia Shahnaz, Chair, IEEE Bangladesh Section, Dr. Tareq Aziz, Chair, IEEE PES Bangladesh Chapter, Dr. Nahid-Al-Masood, Secretary, IEEE PES Bangladesh Chapter, Azfar Adib, Industrial Activities Co-ordinator, IEEE Bangladesh Section, Dr. Md. Farid Ahmmed, Superintending Engineer, PGCB Ltd. and Md. Azizur Rahman Molla, Deputy General Manager (Export and Project Division), Energypac Engineering Ltd. were present as the honorable speakers of the event. The session started at 3 pm. Around 98 participants including both IEEE members and non-members were present.

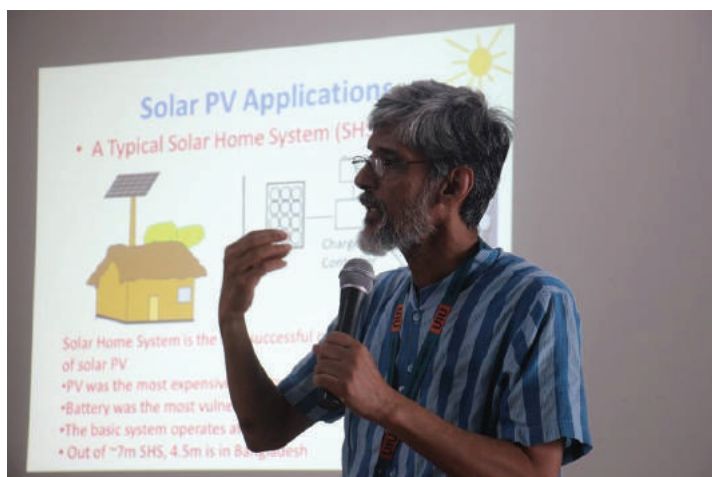
Dr. Shaikh Anowarul Fattah, Nominations and Appointments Chair, IEEE Bangladesh Section, Dr. Celia Shahnaz, Chair, IEEE Bangladesh Section, Dr. Tareq Aziz, Chair, IEEE PES Bangladesh Chapter, Dr. Nahid-Al-Masood, Secretary, IEEE PES Bangladesh Chapter, Azfar Adib, Industrial Activities Co-ordinator, IEEE Bangladesh Section, Dr. Md. Farid Ahmmed, Superintending Engineer, PGCB Ltd. and Md. Azizur Rahman Molla, Deputy General Manager (Export and Project Division), Energypac Engineering Ltd. were present as the honorable speakers of the event. The session started at 3 pm. Around 98 participants including both IEEE members and non-members were present.

Among the speakers, Dr. Shaikh Anowarul Fattah, Nominations and Appointments Chair, IEEE Bangladesh Section talked about different aspects of Power and Energy Society. Then Dr. Celia Shahnaz, Chair, IEEE Bangladesh Section further elaborated on those topics and discussed the prospects of IEEE PES Bangladesh Chapter. Dr. Tareq Aziz, Chair, IEEE PES Bangladesh Chapter presented to the audience the journey of IEEE PES Bangladesh Chapter and also about IEEE in general. Dr. Nahid-Al-Masood, Secretary, IEEE PES Bangladesh Chapter gave a short presentation on how to open a PES chapter in an IEEE student branch. Azfar Adib, Industrial Activities Co-ordinator, IEEE Bangladesh Section talked about the prospect of Internet-of-things in our day to day lives and about its possibilities in Bangladesh. Dr. Md. Farid Ahmmed, Superintending Engineer, PGCB Ltd. gave an overview of the power sector in Bangladesh and talked about the different companies involved in the power sector of Bangladesh. Thereafter, Md. Azizur Rahman Molla, Deputy General Manager (Export and Project Division), Energypac Engineering Ltd. gave a presentation on Energypac and the scopes that it provides to graduates looking for a career in the power sector.

During the program the participants also went out on the field in front of the campus, to form a human chain shaped in the form of “PES DAY”. This picture has been featured by Global PES. After the speech segment, there was a short quiz session and the top three scorers in the quiz were presented with gifts. The program concluded with a group photo of all the participants with the speakers.



“MORE POWER TO THE FUTURE” - IEEE PES DAY CELEBRATED BY IEEE UIU STUDENT BRANCH



IEEE UIU Student Branch in collaboration with IEEE Power and Energy Society (PES) Bangladesh Chapter organized IEEE PES Day 2018 on April 22. The event took place at the permanent campus of United International University. A total of 30 students were present in this celebration. The theme of the program was “More Power to the Future”.

The opening ceremony of IEEE PES Day was conducted by Mr. Abul Hasan Fahad, Student Activities Coordinator, IEEE PES Bangladesh Chapter. In the opening ceremony, Mr. Fahad spoke to the audience about what the Power and Energy Society is, what this society does and how it had transitioned since its name was changed ten years ago. He also discussed the benefits of being a member of IEEE PES and the goals that can be achieved as a member of this innovative society.

After the opening ceremony, an interactive segment on Renewable Energy was conducted by Prof. Dr. M. Rezwan Khan, Distinguished Lecturer of IEEE and the former Vice Chancellor of UIU. In his presentation, Dr. Rezwan Khan shared some valuable information on the positive sides of using DC Power and its importance for a developing country like Bangladesh. He also discussed sources and ways of harnessing renewable energy such as wind power, solar power, tidal power, etc. The event ended with a question and answer session.

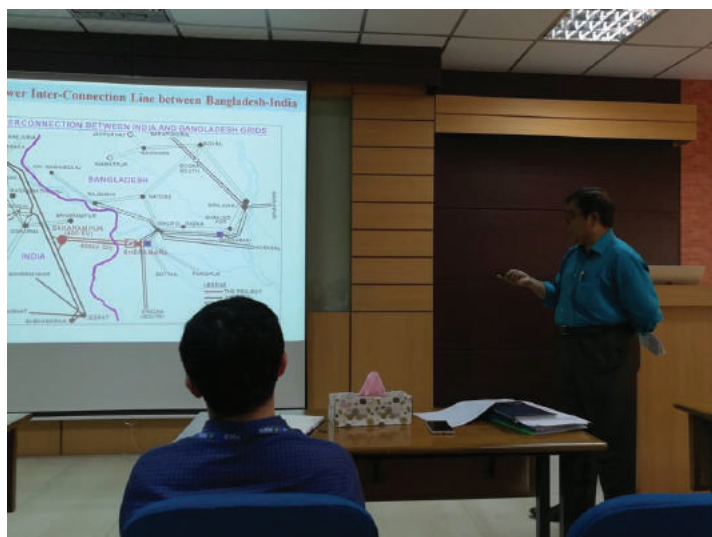
TECHNICAL SEMINAR ON “RESEARCH TRENDS IN POWER AND ENERGY SYSTEMS” AT KUET



A technical seminar on Research Trends in Power and Energy Systems was held at Khulna University of Engineering & Technology (KUET) on 16 May 2018. IEEE Power & Energy Society- Bangladesh Chapter organized a technical seminar out of Dhaka for the first time in 23 years of its establishment. It was jointly organized in collaboration with the IEEE student Branch KUET & Department of Electrical and Electronic Engineering (EEE) of KUET.

In the first talk, Prof. Dr. Md. Shajahan, Head of the Department of EEE, KUET, addressed the potential benefits of IEEE PES membership for prospective researchers. The second talk was given by Dr. Naruttam Kumar Roy, Associate Professor, Department of EEE & Outreach Co-ordinator of IEEE PES Bangladesh Chapter discussed some innovative research ideas on power and energy systems which include methods for reducing power loss, potentialities of renewable energy applications in the context of Bangladesh and development of technologies to maintain the stability of power system.

SEMINAR ON “TRANSMISSION NETWORK PLAN OF BANGLADESH UP TO 2035”



A seminar on “Transmission Network Plan of Bangladesh up to 2035” took place at BUET on May 21, 2018. The facilitator of the program, Engr. Pranab Kumar Roy (Chief Engineer, Planning & Design, PGCB Ltd.) provided a wonderful presentation (available as a separate PDF in the comment section for download) .The program started with a welcome speech by Professor Dr. S. Shahnawaz Ahmed , Dept. of EEE, BUET and also a direct teacher of Engr. Pranab while Dr. Nahid-Al-Masood, Assistant Professor, from the same department chipped in with some timely in-betweens to host a wonderful event that lasted for an hour between 12 pm noon and 1 pm.

B. IEEE ELECTRON DEVICES & SOLID-STATE CIRCUITS SOCIETY BANGLADESH CHAPTER

RF CIRCUIT DESIGN USING COMPUTER SIMULATION TECHNOLOGY (CST)

ECE Building, BUET. Date: 24th January 2018.
Co-hosts: Department of EEE, BUET.



RTL VERIFICATION WITH SYSTEM VERILOG

ECE Building, BUET. Date: 25th January 2018.

**INNOVATION IN LOW-CARBON VEHICLE TECHNOLOGIES-
VEHICLE TO GRID (V2G) SYSTEMS AND INTEGRATED POWER
TRAIN SOLUTIONS**

ECE Building, BUET. Date: 1 April 2018.
Co-hosts: Department of EEE, BUET.



**SMART HETEROSTRUCTURE DESIGN TO OVERCOME THE
EFFICIENCY BOTTLENECK OF DEEP UV PHOTONICS**

ECE Building, BUET. Date: 4th April 2018.
Co-hosts: Department of EEE, BUET
and IEEE ComSoc Bangladesh Chapter.

C. IEEE BANGLADESH SECTION ROBOTICS AND AUTOMATION SOCIETY

WORKSHOP ON “MACHINE LEARNING ALGORITHMS FOR ROBOTICS AND AUTOMATION”

IEEE Bangladesh Section in collaboration with IEEE Robotics and Automation Society, Bangladesh Chapter and Robotics and Automation Society, IEEE NSU Student Branch Chapter organized a workshop named “Machine Learning Algorithms for Robotics and Automation” on 19th April from 4 pm to 7 pm at ECE Computer Lab, North South University.

The workshop was conducted by Dr. Sheikh Anowarul Fattah, Professor, Dept. of EEE, Bangladesh University of Engineering and Technology (BUET), Chair, IEEE Robotics & Automation Society Bangladesh Chapter, Nominations and Appointments Chair, IEEE Bangladesh Section. He was assisted by A. Shafin Mahadi, Assistant Professor, Dept. of CSE, United International University, Abul Al Arabi, Research Assistant, Independent University, Bangladesh, Arnab Bhattacharjee, Lecturer, Bangladesh University of Engineering and Technology, Amit Kumar Kundu, Lecturer, Uttara University.



This Machine Learning workshop provided participants a unique learning experience on the cutting edge of technical innovation today. Engineering students from different universities participated to learn algorithms practically. 16 IEEE members & 11 non-IEEE members, making a total of 27 students participated in the workshop.

Starting from fundamental theories of machine learning, some recent developments and applications were deeply discussed by Dr. Sheikh Anowarul Fattah & A. Shafin Mahadi. Students were given practical training on algorithms using MATLAB by Arnab Bhattacharjee & Amit Kumar Kundu. Later on, Abul Al Arabi showed some of his developments to inspire, engage, encourage, in a friendly manner with huge interaction. Zakaria Haider, Secretary, IEEE Bangladesh Section & Dr. Lamia Iftekhar, Faculty Advisor, Robotics and Automation Society, IEEE NSU Student Branch Chapter were also present at the event.

Upon completion of the workshop, the participants were awarded certificates by Dr. Sheikh Anowarul Fattah and other instructors.

3. ACTIVITIES OF AFFINITY GROUPS

b. WOMEN IN ENGINEERING (WIE) AFFINITY GROUP, IEEE BANGLADESH SECTION

INTERNATIONAL WOMEN'S DAY CELEBRATION, 2018

BY IEEE STAMFORD UNIVERSITY STUDENT BRACH & WIE AG, IEEE BANGLADESH SECTION

On 16th March 2018, IEEE Stamford University Student Brach & WIE AG, IEEE Bangladesh section jointly organized "International Women's Day Celebration, 2018" at the auditorium of Stamford university Bangladesh with immense success.

The event started with welcome message by Prof. Dr. Enamul Bashar, Academic Advisor, Department of EEE, Stamford University Bangladesh. Then important speech was delivered by Prof. Dr. M Feroze Ahmed, Professor Emirates & Former Vice chancellor, Stamford University Bangladesh. After that Prof. Dr. M Abu Wahidullah, Professor, Department of EEE, Stamford university Bangladesh, shared his views regarding the program.

Anamika Bhakta, Chair, WIE AG IEEE Bangladesh Section showed a presentation on "Activities of WIE". Then a session of Biography presentation of Successful Women was conducted by IEEE Stamford University Student Branch. The winners were awarded by IEEE Stamford University Student Branch.

After that Dr.Celia Shahnaz, Professor Department of EEE, BUET and Chair, IEEE, Bangladesh Section discuss about the mission and vision of IEEE and also motivate female student to join IEEE and its volunteering activities. Nurun Nahar Dora, Deputy General Manager, GrameenPhone and Kaniz Fatema, Head of data, device & digital marketing, Rajshahi Circle, GrameenPhone delivered their speech on "The opportunities and struggle of women in corporate life". Then three WIE speaker Tasnim Kamal, Former Chair, WIE AG SB DU, Shila Sharmin Mitu, Chair, WIE AG SB AUST and Zahra Zahin, Former Chair, WIE AG SB BUET shared their experience in IEEE being an IEEE WIE member. Finally Dr. Dilshad Mahjabeen, Associate Professor, Dept. of Electrical and Electronic Engineering and Branch Counselor, IEEE Stamford U Student Branch gave vote of thanks on the behalf of IEEE Stamford U Student Branch.



NETWORKING EVENT "MEET WOMEN ENGINEERS"

BY IEEE NSU STUDENT BRANCH, WIE AFFINITY GROUP



IEEE NSU Student Branch, WIE Affinity Group arranged a networking event "Meet Women Engineers" on 8th March 2018 at NSU where our female alumni shared their stories about their undergraduate life where 38 IEEE WIE members were present. Our first speaker was Dr. Nova Ahmed, Associate Professor, North South University who gave us useful insights about surviving undergraduate. Our second speaker was Ms. Tamanna Motahar, Lecturer, North South University. The third speaker was Sayma Shammi who is one of the alumnae of ECE department. Then we had Khalida Sultana Shurovi's who is also an alumnus of NSU, ECE department who told us about she managed to be the vocalist in an active rock band while continuing her studies.

And WIE AG, IEEE NSU SB advisor Dr. Shohana Deeba ended the session with a closing speech and with the presence of all the speakers, all female ECE faculties including Tanjila Farah, Branch Counselor, IEEE NSU SB, IEEE NSU SB WIE Executive Bodies and participates, a WIE celebrated International Women's Day by cutting a cake.

WOMEN'S DAY OLYMPIAD ORGANIZED IEEE WIE AFFINITY GROUP STUDENT BRANCH DU



IEEE WIE Affinity Group Student Branch DU successfully organized Women's Day Olympiad to celebrate the glorious International Women's Day today. The event was inaugurated by the respected Chairman of EEE,DU, followed by the opening speeches of Branch Counselor and Group Adviser. Distinguished speakers Professor Dr. Shahida Rafique and Dr. Lafifa Jamal were also with us and shared their valuable experiences, accompanied by significant tips about career. Around 40 participants joined the celebration, making it vibrant and cheerful.

IEEE PES DAY CELEBRATION 2018 ORGANIZED BY IEEE UAP SB, IEEE SB DU, IEEE WIE AG SB DU AND WIE AG, IEEE BDS

With the aim for 'More Power to the Future', WIE AG, IEEE BDS has celebrated "IEEE PES DAY 2018" with 2 day long excellent events along with IEEE UAP Student Branch, IEEE University of Dhaka Student Branch and IEEE WIE AG University of Dhaka. In April 22, 2008, the Power Engineering Society changed its name to the Power & Energy Society so that the Power & Energy Society name would be more appropriate and attractive to all participants in the industry involved in electric energy field. This year we have celebrated 10 years of name changing for the "Power and Energy Society".

In the event at IEEE UAP SB on 28 April, Dr.Celia Shahnaz, Professor, Department of EEE, BUET, Nafisa Zarrin Tasnim, Assistant Engineer of Energypac Engineering Ltd, Tasnuva Binte Anowar, Assistant Engineer of Design circle, DPDC, Shoile Chakma, Lecturer of BUET and Purnata Roy, Assistant Engineer of DESCO were present and shared their experience in academia and power sectors.



WORKSHOP ON WRITING SCIENTIFIC ARTICLE USING LATEX BY BUET WIE STUDENT BRANCH AFFINITY GROUP

BUET WIE Student Branch Affinity Group is honored to present the successful completion of the "Workshop on Writing Scientific Article using LATEX" on 12th may, 2018 at ECE, BUET. It was open for students from both BUET and other universities. We were honored to have two extraordinarily talented instructors; Shoilie Chakma, Secretary, IEEE WIE Bangladesh Section and Irtiza Hoque, Industrial Activity Coordinator, IEEE WIE Bangladesh Section to conduct this very informative and highly educative workshop. The workshop ended at approximately 7:00 PM by honoring our instructors with a token of appreciation presented by none other than Nurun Nahar Mondol, Chairperson, IEEE BUET WIE Student Branch Affinity Group.



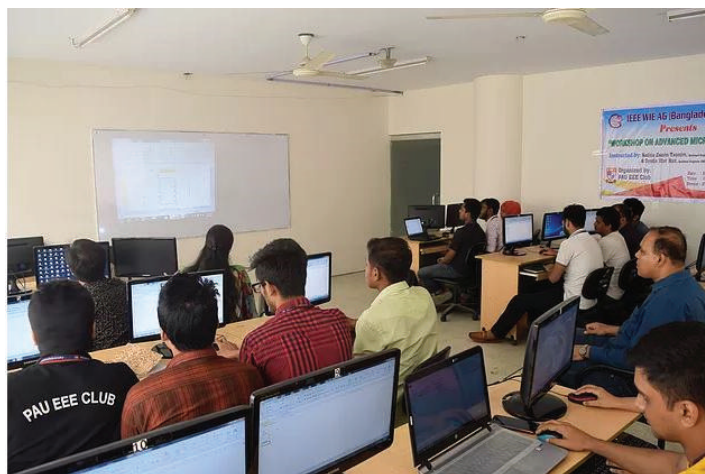
**WORKSHOP ON THE STRUCTURAL CHARACTERIZATION OF NANOPARTICLES USING XRD DATA
ORGANIZED BY IEEE SB UNIVERSITY OF DHAKA AND WIE AG, IEEE BANGLADESH SECTION**



Dr. Mohammed Tareque Chowdhury, Principal Scientific Officer, Experimental Physics Division, Atomic Energy Center, Bangladesh Atomic Energy Commission was the speaker for this workshop. After the inauguration of the workshop by the Chairman Dr. Mostofa Al Mamun of EEE Department, participants were introduced to the important applications and research scopes of Nanotechnology. Total 27 non IEEE member, 8 IEEE member and 2 faculty attended the workshop. The three hour workshop ended with token of appreciation giving to the speaker by Dr. Sakhawat Hussain, Assistant Professor, EEE department, University of Dhaka and group photo session.

**WORKSHOP ON “ADVANCED MICROSOFT EXCEL”
ORGANIZED BY PRIME ASIA UNIVERSITY EEE CLUB AND WIE AG, IEEE BANGLADESH SECTION**

Prime Asia University EEE Club and WIE Affinity Group, IEEE Bangladesh Section jointly organized “Workshop on Advanced Microsoft Excel” on 6 April, 2018 with 18 participants at General Purpose Computer Lab, STAR Tower, Prime Asia University. Nafisa Zarrin Tasnim, Assistant Engineer (R&D), Energypac Engineering Ltd. and Professional Activities Coordinator, WIE AG, IEEE Bangladesh Section and Syeda Iffat Naz, Assistant Engineer (R&D), Energy Pac Engineering Ltd. and Newsletter Editor, WIE AG, IEEE. The workshop was held in two sessions. The first session was conducted by Nafisa Zarrin Tasnim. The second session was conducted by Syeda Iffat Naz. The students were given an exercise at the end of the final session and the two instructors responded to various questions from them. The three hours’ workshop ended with certificate giving ceremony and group photo session.



ACHIEVEMENT



BUET WIE IEEE SB AG

has become
the recipient of

Honorable Mention

for the

**Global WIE SB
Affinity Group of the Year
Award 2017**

IEEE Women in Engineering Committee (WIEC) has selected the IEEE WIE BUET Student Branch Affinity Group as the recipient of an Honorable Mention for the 2017 WIE Student Branch Affinity Group of the Year Award.

3. ACTIVITIES OF AFFINITY GROUPS

3. IEEE YOUNG PROFESSIONALS BANGLADESH SECTION EVENTS

GET PREPARED FOR THE NEXT CHALLENGE IN CAREER - HEAR IT FROM THE CHAMPIONS



Get Prepared FOR THE NEXT CHALLENGE IN
CAREER: HEAR IT FROM THE CHAMPIONS

 March 15, 2018
 3:30 PM

 BRAC University
UB3 Indoor Games Room, Mohakhali, Dhaka

 **JAMIL WAHID**
Growth Specialist & Business Architect
Digital Channels, Grameenphone Ltd.

 **A R M ABDULLAH ROCKY**
IT Specialist Engineer
Digital Services & Solutions
Banglalink Digital Communications

A common question that arises in the minds of almost all the university graduates is “what can I do now?” or “what to pursue” and so on. It becomes quite a troublesome situation even for the bright minds of this country when they face these questions after graduation. Students face a great deal of overwhelming dilemma and confusion in choosing the career path to walk on. The root of this problem is the insufficient and inadequate knowledge of the graduates and students regarding career choices and prospects. In many cases, student doesn’t get to know what are the existing options or career paths to pursue that would be compatible to his or her skill set and outlook. Hence, IEEE Young Professionals Bangladesh Section has undertaken an initiative to organize a series of events for sharing in-depth knowledge about different career prospects one by one. The first event in this series was held on March 15, 2018, titled "Get prepared for the next challenge in career: Hear it from the champions" which inherently consisted of a session on "Choosing corporate as a career: How to prepare yourself for the challenges ahead." Distinguished speakers of the top corporate houses of the country namely Jamil Wahid, Growth Specialist & Business Architect, Digital Channels, Grameenphone Ltd and A R M Abdullah Rocky, IT Specialist Engineer, Digital Services & Solutions, Banglalink Digital Communications articulated on the secret ingredients for being successful in corporate career and shed light on skills that individuals should nurture from their undergraduate life. In addition to this event being conducted in IEEE BRAC University Student Branch premise, it also had the support of IEEE BRACU SB and the vibrant presence of the participants in this event. IEEE Young Professionals Bangladesh Section wholeheartedly appreciates the support of IEEE BRACU SB and the vibrant presence of the participants in this event. IEEE YP BDS really looks forward to commencing with more events of such kind in a series that would be quintessential for the ever-growing mass number of graduates and university students.



4. STUDENT BRANCH ACTIVITIES

AIUB STUDENT BRANCH

- 1. IEEE STUDENT PROFESSIONAL AWARENESS VENTURE 2-** AIUB Campus, 20th January 2018.
- 2. SEMINAR ON RECENT TRENDS AND DEVELOPMENT IN RENEWABLE ENERGY AND SMART GRID** - AIUB Campus, 28th January 2018. Co-Host: IEEE Industrial Applications Society, AIUB SB.
- 3. WORKSHOP ON GOOGLE MOBILE SITE CERTIFICATION EXAM-** AIUB Campus, 14th February 2018. Co-Host: Google Developer Group, Sonargaon.
- 4. MEMBERS ORIENTATION 2018-** AIUB Campus, 15th February 2018.
- 5. SEMINAR ON CV WRITING AND INTERVIEW TECHNIQUES FOR ENGINEERING STUDENTS-** AIUB Campus, 26th February 2018. Co-Host: AIUB Office of Placements and Alumni.
- 6. ANNUAL RECREATIONAL TOUR 2018-** Pubail Socio Cultural Centre Resort, 16th March 2018.
- 7. A SEMINAR ON PAST PRESENT AND FUTURE OF AR AND VR-** AIUB Campus, 18th March 2018.
- 8. CELEBRATION OF INTERNATIONAL WOMEN'S DAY 2018-** AIUB Campus, 21st March 2018. Co-Host: IEEE AIUB SB WIE AG.
- 9. SEMINAR ON BENEFITS OF JOINING IEEE YOUNG PROFESSIONALS-** AIUB Campus, 3rd April 2018.
- 10. WORKSHOP ON BASICS OF USING ARDUINO MICROCONTROLLERS-** AIUB Campus, 12th April 2018. Co-Hosts: IEEE AIUB SB WIE AG and Bangladesh Robotics Foundation.

AUST STUDENT BRANCH

- 1. INDUSTRIAL TOUR 2018-** Factory of Walton, Kaliakoir, 31st January 2018.
- 2. SEMINAR ON SCOPES OF HIGHER STUDIES IN THE USA-** AUST Campus, 6th May 2018.
- 3. ANNUAL GENERAL MEETING-** AUST Campus, 15th May 2018.
- 4. WORKSHOP ON LATEX-** AUST Campus, 23rd January 2018.

BRAC UNIVERSITY STUDENT BRANCH

- 1. SEMINAR ON DEMYSTIFYING SOFTWARE-** BRAC University Campus, 23rd May 2018.

BUBT STUDENT BRANCH

- 1. WORKSHOP ON ANALYTICAL MODELLING OF OPTOELECTRONIC DEVICE: A SOLAR CELL APPLICATION-** BUBT Permanent Campus, 11th January 2018. Co-Host: IEEE BUBT WIE AG.
- 2. INAUGURATION OF IEEE BUBT SB AND WIE BUBT AG, 2018-** BUBT Permanent Campus, 5th March 2018.
- 3. IEEE MEMBER RECRUITMENT WEEK 2018-** BUBT Permanent Campus, 12th to 18th March 2018.

BUET STUDENT BRANCH

- 1. IEEE MEMBERSHIP DEVELOPMENT WEEK 2018-** ECE Building, BUET, 8th to 18th April 2018.
- 2. IEEE ORIENTATION PROGRAM 2018-** ECE Building, BUET, 24th April 2018.
- 3. PES DAY 2018-** ECE Building, BUET, 23rd April 2018. Co-Host: IEEE Bangladesh Section, IEEE Power and Energy Society.
- 4. A TALK TITLED AS "REAL POWER COMPUTING- BATTERIES NOT INCLUDED: CHALLENGES AND OPPORTUNITIES"-** ECE Building, BUET, 8th January 2018.
- 5. WORKSHOP ON EMBEDDED SYSTEM DESIGN-** ECE Building, BUET, 4th May 2018.
- 6. WORKSHOP ON PCB DESIGNING-** ECE Building, BUET, 3rd May 2018.
- 7. WORKSHOP ON IOT-** ECE Building, BUET, 3rd May 2018.

BUP STUDENT BRANCH

- 1. WORKSHOP ON VERSION CONTROLLING SYSTEM**- 17th March 2018.
- 2. WORKSHOP ON WEB DESIGN AND DEVELOPMENT FOR BEGINNERS**- 12th May 2018.

CUET STUDENT BRANCH

- 1. INTERACTIVE SESSION AND POSTER COMPETITION**- ME Seminar Room, CUET, 21st April 2018.
- 2. INTERACTIVE SESSION ON PCB DESIGNING AND SIMULATION**- West Gallery, CUET, 15th January 2018.
- 3. SESSION ON OF FUNDAMENTALS OF IOT**- West Gallery, CUET, 12th February 2018.

DIU STUDENT BRANCH

- 1. WORKSHOP ON IMAGE PROCESSING**- 16th March 2018.

DUET STUDENT BRANCH

- 1. WORKSHOP ON INDUSTRIAL AUTOMATION USING SEMIENS AND SCHNEIDER PLC**- Advance Simulation Lab, DUET Campus, 2nd February 2018.
- 2. WORKSHOP ON "PCB DESIGNING"** - Seminar Hall, DUET Campus, 24th January 2018.
- 3. WORKSHOP ON "PROTEUS"** - Seminar Hall, DUET Campus, 23th January 2018.
- 4. WORKSHOP ON STANDARD CV WRITING**- Seminar Hall, DUET Campus, 8th April 2018.
- 5. SEMINAR ON IMPORTANCE OF GIRL'S EDUCATION IN PAKISTAN**- Seminar Hall, DUET Campus, 1st January 2018.

EU STUDENT BRANCH

- 1. IEEE STUDENT BRANCH EX-COM SUMMIT 2018**- EU Campus, 18th May 2018. Co-Host: IEEE Bangladesh Section, IEEE Bangladesh Section Student Activity Committee(SAC).

EWU STUDENT BRANCH

- 1. GENERAL MEETING AND ORIENTATION**- 1st April 2018.
- 2. IESB TALK 01** - EWU Campus, 20th February 2018.
- 3. SEMINAR ON "WRITING AND PUBLISHING SCIENTIFIC RESEARCH PAPER"** - EWU Campus, 28th March 2018.
- 4. WORKSHOP ON AUTOCAD**- EWU Campus, 16th February 2018.
- 5. WORKSHOP ON CCNA**- EWU Campus, 26th January 2018.
- 6. WORKSHOP ON "PCB DESIGN USING PROTEUS"**- EWU Campus, 15th May 2018.

HSTU STUDENT BRANCH

- 1. SEMINAR ON "EVOLUTION IN COMMUNICATION NETWORK"** - Dr.M.A. Wazed Building, HSTU, 11th March 2018.
- 2. WORKSHOP ON "ELECTRONICS STARTER KITS" INTRODUCTION**- Dr.M.A. Wazed Building, HSTU, 26th April 2018.
- 3. "MEMBERSHIP AWARENESS PROGRAM"**- Auditorium 1, HSTU Campus, 20th February 2018.
- 4. IEEE HSTU STUDENT BRANCH RECRUITMENT DRIVE**- HSTU Campus, 13th to 20th February 2018.
- 5. WORKSHOP ON "RESEARCH ASSISTIVE TOOLS"** - Dr.M.A. Wazed Building, HSTU, 25th April 2018.

IIUC STUDENT BRANCH

- 1. INTERACTIVE SESSION WITH IEEE BANGLADESH SECTION CHIEF EXECUTIVES**- Seminar Room, Central Auditorium, IIUC, 21st April 2018. Co-Host: IEEE Bangladesh Section.
- 2. ANNUAL GENERAL MEETING 2018**- Central Auditorium, IIUC, 25th April 2018.
- 3. TALK ON "STEPS TO WRITE A SCIENTIFIC RESEARCH PAPER"**- Central Auditorium, IIUC, 6th February 2018

ISTT STUDENT BRANCH

- 1. IEEE ISTT STUDENT BRANCH MEMBERSHIP RECRUITMENT 2018**- CRP Building, ISTT Campus, 11th January 2018.
- 2. SEMINAR ON IEEE MEMBERSHIP DEVELOPMENT**- CRP Building, ISTT Campus, 8th March 2018.
- 3. SEMINAR ON VOLUNTEERING WITH IEEE**- CRP Building, ISTT Campus, 28th April 2018.

IUB STUDENT BRANCH

- 1. SEMINAR ON MICROGRID BASED POWER SYSTEM FOR RURAL COMMUNITY**- 18th January 2018. Co-Host: Green Energy Research Centre, IUB.
- 2. WORKSHOP ON MATLAB**- 9th February 2018.
- 3. TALK ON SCIENCE AND TECHNOLOGY**- 15th February 2018.
- 4. SEMINAR ON DEEP UV LIGHT FOR DISINFECTION APPLICATIONS**- 22nd February 2018.
- 5. AN INDUSTRIAL TOUR- SHYAMPUR SUBSTATION**, 1st March 2018. Co-Host: IAS Chapter and EEE, IUB.
- 6. ARDUINO DAY 2018**- IUB Campus, 12th May 2018.

IUT STUDENT BRANCH

- 1. IEEE IUT SB FRESHERS RECEPTION**- IUT Campus, 19th April 2018.
- 2. WORKSHOP ON PCB DESIGN 1**- IUT Campus, 10th May 2018.
- 3. WORKSHOP ON PCB DESIGN 2**- IUT Campus, 15th May 2018.

LEADING UNIVERSITY STUDENT BRANCH

- 1. WORKSHOP ON DIFFERENT TYPES OF CIRCUIT**- 21st May 2018.

MIST STUDENT BRANCH

- 1. MEMBERSHIP DRIVE 2018**- 27th March 2018.
- 2. SESSION ON RESEARCH PAPER WRITING**- General Mustafiz Multipurpose Hall, MIST, 3rd April 2018.
- 3. SEMINAR ON BASIC INTERNET NETWORK FOR BEGINNERS AND INTERNET CONNECTIVITY**- MIST Campus, 30th May 2018.

PUST STUDENT BRANCH

- 1. INDUSTRIAL TOUR 2018**- Rajshahi Katakhai 50MW Power Plant, 29th March 2018.
- 2. CAREER TALK: TRANSITION FROM UNIVERSITY LIFE TO CORPORATE LIFE**- Gallery 2, PUST, 1st March 2018.
- 3. WORKSHOP ON "ENDNOTE AND THESIS FORMATTING"**- Gallery 2, PUST, 19th April 2018.
- 4. WORKSHOP ON "GREEN BUILDING AND JOB OPPORTUNITIES FOR ENGINEERS"**- Gallery 2, PUST, 10th May 2018.

NSU STUDENT BRANCH

- 1. ANDROID STUDY JAM**- North South University, 7th April 2018. Co-Host: WIE Affinity Group and Women Techmakers Bangladesh.
- 2. ECE DEPARTMENT ORIENTATION**- North South University, 23rd January 2018.
- 3. GOOGLE'S CERTIFICATION FOR MOBILE SITE DEVELOPERS**- North South University, 19th February 2018.
- 4. IEEE MEMBERSHIP BENEFITS SESSION**- North South University, 27th March 2018.
- 5. CELEBRATION OF IEEE PES DAY 2018**- North South University, 24th April 2018. Co-Host: IEEE NSU WIE Affinity Group.
- 6. MEMBERSHIP DRIVE SPRING 2018**- North South University, 24th February 2018 to 1st March 2018.
- 7. MOBILE SITE DEVELOPERS DAY**- North South University, 18th March 2018. Co-Host: GDG Sonargaon.
- 8. POWERBUZZ 2018**- North South University, 9th and 10th February 2018. Co-Host: Department of ECE, NSU
- 9. WEB DEVELOPMENT WORKSHOP**- North South University, 14th March 2018.
- 10. WEB-DESIGN WORKSHOP WITH WORDPRESS**- North South University, 20th March 2018.
- 11. WORKSHOP ARD&HOME AUTO REPORT**- North South University, 2nd February 2018. Co-Host: Robotics and Automation Society, INSB.
- 12. WORKSHOP ON MICROSOFT WORD**- North South University, 3rd April 2018.
- 13. WORKSHOP ON MACHINE LEARNING**- North South University, 19th April 2018. Co-Host: Robotics and Automation Society, INSB.
- 14. INTERNATIONAL WOMEN'S DAY CELEBRATION**- North South University, 8th March 2018.

RUET STUDENT BRANCH

- 1. SEMINAR ON IEEE MEMBERSHIP DEVELOPMENT**- ECE Seminar Room, RUET, 8th February 2018.
- 2. CELEBRATION OF INTERNATIONAL WOMEN'S DAY**- 8th March 2018.

STUDENT BRANCH, DU

- 1. SEMINAR ON SPACE SCIENCE FOR ENGINEERS**- EEE Building, DU, 7th January 2018. Co-Host: IEEE WIE AG SB DU & Nerd Community.
- 2. SEMINAR ON SOLAR CELL TECHNOLOGIES**- EEE Building, DU, 8th January 2018.
- 3. ANNUAL GENERAL MEETING AND ELECTION**- EEE Building, DU, 28th January 2018. Co-Host: IEEE WIE AG SB DU.
- 4. SEMINAR ON PURSUING GRADUATE STUDIES AT CLEMSON UNIVERSITY**- EEE Building, DU, 7th February 2018. Co-Host: IEEE WIE SB DU.
- 5. MEMBERSHIP DEVELOPMENT SESSIONS**- EEE Building, DU, 4th to 28th February 2018.
- 6. WORKSHOP ON BIOINFORMATICS HANDS ON TRAINING**- EEE Building, DU, 19th February 2018. Co-Host: IEEE WIE AG SB DU & IEEE BDS.
- 7. SEMINAR ON ADVANCED OPTICS**- EEE Building, DU, 6th March 2018.
- 8. WORKSHOP ON MICROSOFT EXCEL AND ACCESS**- EEE Building, DU, 8th March 2018.
- 9. WORKSHOP ON GRE**- EEE Building, DU, 14th March 2018.
- 10. WORKSHOP ON THESIS OR PAPER WRITING**- EEE Building, DU, 18th March 2018. Co-Host: IEEE WIE AG SB DU & EEE, DU.
- 11. 4TH MEMBERSHIP DEVELOPMENT SESSION**- IIT, DU, 19th March 2018.
- 12. SEMINAR ON INTRODUCTION TO IEEE**- EEE Building, DU, 4th April 2018. Co-Host: IEEE WIE AG SB DU & IEEE BDS.
- 13. WORKSHOP ON HANDS ON TRAINING ON MICROCONTROLLERS**- EEE Building, DU, 28th April 2018. Co-Host: IEEE WIE AG SB DU & IEEE CS SB DU.
- 14. WORKSHOP ON NANOTECHNOLOGY**- EEE Building, DU, 6th May 2018. Co-Host: IEEE WIE BDS.
- 15. WORKSHOP ON NANOTECHNOLOGY**- Institute of Energy, DU, 30th April 2018. Co-Host: IEEE WIE BDS & IEEE WIE AG SB DU.
- 16. SEMINAR ON THE FUTURE OF ENGINEERING GRADUATE STUDENTS**- EEE Building, DU, 28th May 2018.
- 17. WORKSHOP ON BASIC MATLAB**- IIT, DU, 27th January 2018.
- 18. IFTAR PARTY AND AGM**- 6th June 2018. Co-Host: IEEE WIE AG SB DU.

STUDENT BRANCH, JU

- 1. DLD PROJECT COMPETITION-** IIT, JU, 24th May 2018.
- 2. SEMINAR ON “THINK BRAVELY, LEAD CONFIDENTLY”**- An Open Talk to Choose Our Career and Know about WIE- IIT, JU, 7th May 2018.
- 3. WORKSHOP ON “IOT AND MEMBERSHIP DRIVE”**- IIT, JU, 16th May 2018. Co-Host: IEEE BDS and HAC.
- 4. WORKSHOP ON LATEX-** IIT, JU, 5th April 2018.

SUB STUDENT BRANCH

- 1. SEMINAR ON “TECHNICAL WRITING”**- Auditorium, SUB, 29th May 2018.
- 2. INTERNATIONAL WOMEN’S DAY CELEBRATION 2018-** Auditorium, SUB, 16th March 2018. Co-Host: WIE AG, IEEE BDS.
- 3. WORKSHOP ON LATEX- MCL-**C Lab, SUB, 19th May 2018. Co-Host: WIE AG, SUB.

SUST STUDENT BRANCH

- 1. SEMINAR ON HVDC POWER TRANSMISSION PROSPECTS IN BANGLADESH-** IICT Building, SUST, 22nd April 2018.
- 2. WORKSHOP ON DEVELOPMENT OF CDZNS AND CZTS THIN-FILMS FOR FSC APPLICATION-** IICT Building, SUST, 11th January 2018.
- 3. WORKSHOP ON RESEARCH METHODOLOGY APPROACHES & TECHNIQUES-** IICT Building, SUST, 5th February 2018.

UAP STUDENT BRANCH

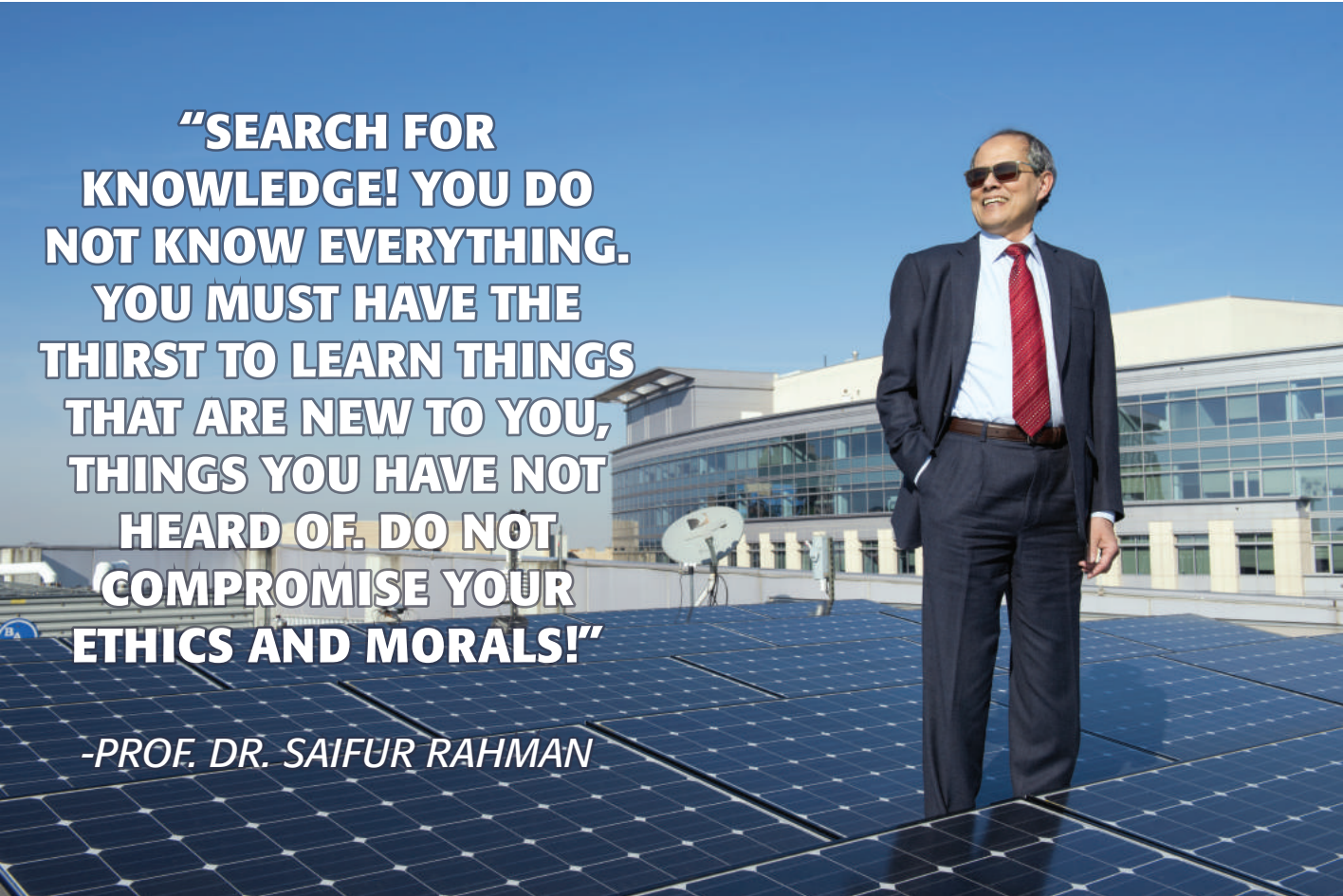
- 1. WORKSHOP ON SOCCER ROBOT-** Annex Building, UAP, 20th January 2018.
- 2. SEMINAR ON “PRINCIPLES OF COHERENT OPTICAL COMMUNICATION”**- Annex Building, UAP, 27th March 2018. Co-Host: Department of EEE, UAP.
- 3. TALK ON GREEN BUILDING DESIGN CONCEPT-** Annex Building, UAP, 19th March 2018.
- 4. PES DAY 2018-** Annex Building, UAP, 28th April 2018. Co- Host: WIE AG, IEEE BDS.

ULAB STUDENT BRANCH

- 1. IEEE MEMBERSHIP DEVELOPMENT WEEK-** ULAB Campus, 5th to 12th March 2018.
- 2. IEEE PROFILE CREATION SESSION-** ULAB Campus, 2nd April 2018.

AN EXCLUSIVE INTERVIEW OF PROF. DR. SAIFUR RAHMAN

- MOHAMMAD MAHINUR RAHMAN



**“SEARCH FOR
KNOWLEDGE! YOU DO
NOT KNOW EVERYTHING.
YOU MUST HAVE THE
THIRST TO LEARN THINGS
THAT ARE NEW TO YOU,
THINGS YOU HAVE NOT
HEARD OF. DO NOT
COMPROMISE YOUR
ETHICS AND MORALS!”**

-PROF. DR. SAIFUR RAHMAN

Prof. Dr. Saifur Rahman is the Joseph R. Loring Professor of Electrical and Computer Engineering at his alma-mater, Virginia Tech. Giving lectures aside, he is the Founding Director of the Advanced Research Institute at Virginia Tech, President of the IEEE Power and Energy Society (PES) for 2018 and 2019 and served as the Chair of the US National Science Foundation Advisory Committee for International Science and Engineering. A Life Fellow of the IEEE, an IEEE Millennium Medal winner and an alumnus of Virginia Tech and BUET. He is also the founder of ‘BEM Controls’ which works with IoT based smart building devices.

Mohammad Mahinur Rahman: Sir, it is an honour for Bangladesh. You are the very first Bangladeshi who has been elected as a President of IEEE Power and Energy Society. We believe that the journey to this height is indeed valiant and motivational. Sir, how was your journey to this point?

Dr Saifur Rahman: Well, it is a continuous process. Since 1998, I have been working with IEEE Power and Energy Society. As you know, IEEE has many societies. "PES" is the second largest society after Computer Society. I have worked as the Vice President of IEEE publication board back in 2006. I have chaired many IEEE level committees dealing with publications, conferences, periodicals and so on. For example, IEEE has a digital library called IEEEExplore which is the database of all publications. IEEE Products and Services committee was chaired by me for 4 years. That committee was given the responsibility of setting up the policies of Xplore. To become the president of a society, one needs to be widely recognized. Another thing that helped me a lot is that I have been a Distinguish Lecturer of IEEE PES for almost 17 to 20 years. Over the last 15 years, I have given lectures in almost 40 countries all over 6 continents, North America, South America, Asia, Europe and Australia. When the election was to hold two years ago, there were three candidates. One from France, another one was an American and I, an American Immigrant. I won the election by 20 or 30 points. That is a recognition and I am honoured that so many people supported me. It has been a long journey, but I am happy where I am. So, now after becoming the President of IEEE Power and Energy Society, I have some agendas to fulfil. One of them is to engage members outside of North America. Also, IEEE has 10 regions with 1-6th in the USA, 7th In Canada, 8th in Europe, Africa, and the Middle East, 9th in South America, 10th in Asia and Oceania. The 10th region is the largest region and 20% of them are from the 10th region. So, one of my agendas is to do more activities in Region 10 concerning training courses for power engineers. If the programs are organized under our umbrella, it

will be more noticeable to the world, especially to the region 10. We are working on launching 'PES University' which is actually not a physical university but a platform where vast knowledge can be shared. We might recruit Lecturers for the workshop to be hosted under PES University. And, of course, through PES University we can provide certificates to the attendees of the 3-4 days course. The certificates will be more valuable than that provided by a local organization.

Mohammad Mahinur Rahman: Sir, it will be beneficial for us, if the PES University comes into operation as early as possible. Now moving on to my second question, your research area is mainly based on smart grids, energy efficiency, renewable energy etc. In the aspect of the current demands of Bangladesh, how effective are they?

Dr Saifur Rahman: Both renewable energy and energy efficiency are major issues on the perspective of Bangladesh. Because Bangladesh has a good solar resource not as much as wind. At the very least the government is willing to promote solar energy. However, there are several confusing drawbacks in producing solar energy in large scales, such as voltage issue. India is also facing the same problems. Since solar energy is a safe and prominent source of energy, proper education and awareness are necessary among the people in Bangladesh. According to research, graduate and undergraduate students should be most knowledgeable in this field. So, in the context of Bangladesh, renewable energy integration in the grid will be a significant issue over time. For that, we should start preparing our students through courses and thesis topics. Efficiency, while producing and distributing energy, is a great issue that should be on top of priority list since there is a huge energy loss in Bangladesh. We waste a lot of energy due to our carelessness. For example, we don't turn off the lights even when we don't need them. On the other hand, we cannot provide the streets with sufficient lighting. If we had automated detecting system through which lights would turn off in the absence of human being, a lot of energy could be saved. If we use energy efficiently, then we won't need to establish powerhouses as much as we do otherwise. So, my research area, in the context of Bangladesh, both smart grid and energy efficiency are very important. Smart grid is an important factor where smart meters, remote voltage control system and remote system management are discussed. If there is an outage in the system, we will know why it is occurring and how to solve it through the system without sending a crew. In summary, firstly, for renewable energy integration to the grid and secondly, for energy efficiency to reduce energy consumption without sacrificing comfort, health and functionality of the space, smart grids are quite relevant.

Mohammad Mahinur Rahman: Sir, I think smart grid will take some time to be implemented in Bangladesh. I would like to move on to the third question. Sir, you are the founding director of ARI Virginia-Tech. A new research field in the website caught my eye - cybersecurity in power energy system. Sir, how is it important in the perspective of Bangladesh?

Dr Saifur Rahman: Cybersecurity is a problem that everybody is facing. There was a case in Bangladesh that showed, Bangladesh Bank lost 110 million dollars because somebody hacked the network and withdrew money that Bangladesh Bank had no knowledge about it. It is obvious that there was lacking in the security system. People hardly know anything about how to keep their data secure from falling into wrong hands. Moreover, there is no course that teaches these manners. So, in the context of Bangladesh, creating awareness about cybersecurity of the power system is really important. In India, we are doing some courses regarding cybersecurity in different cases. As you go for an automation, like a smart grid system, the system is connected to the internet and people have an opportunity to hack and control that network without your knowledge. Due to automation, our systems become more information based and cybersecurity becomes a vital issue. In light of recent news of Bangladesh, there weren't any proficient local experts during the Bangladesh Bank crisis. They just take a higher salary, while postponing the problem and then the problem appears again. Thus, we have to start from the root level. We aim at holding courses in BUET and organizing workshops and seminars to create awareness on it. If someone wants to do the courses in BUET, he can go to our website ece.vt.edu or even websites like coursera etc. and check the contents of cybersecurity. Everything about what we study on is provided there. Also, many universities provide online courses which the interested ones can complete. However, the first and foremost thing to do is to let people know about the problem. When we are aware of the drawback, getting necessary courses won't be a problem.

Mohammad Mahinur Rahman: Though there are tech-experts in Bangladesh, we are still hiring people from abroad and giving them higher salaries. If I say about research opportunities in Bangladesh, it is not enough compared with other countries. What is your advice on enhancing the opportunities?

Dr Saifur Rahman: Let me give you an example. In the USA, how do they do this? Their faculty members are open-minded and learn from other countries and focus on what is happening outside of their sphere. But the professors of Bangladesh are not willing to learn so. They think they know everything, and they are satisfied with their limited knowledge. This attitude must be changed. Of course, there are some professors who are open-minded, with their experiences abroad and also on publishing papers. But the majority is not like that. If you do not commit to research, publish papers and advise students, you will not go forward. You will be stuck at where you are. In Bangladesh, they are not focused on research work, publication or funding. In India, the aforementioned tendency is increasing. I hope, in Bangladesh, it will happen soon. From the faculties, awareness should be made regarding new things that they need to learn, new solutions that they should find for problems. It will only happen if there is an incentive among professors to do these things. If they think that they are being good just by teaching two courses in class and then returning home, then proceeding further in technological line is impossible. There are professors of

RUET and KUET who are doing conferences, seminars, writing papers and publishing them etc. Even though in BUET, similar practices are seen, we should focus on broadening these aspects.

Mohammad Mahinur Rahman: Sir, what are your thoughts about practising in Bangladesh?

Dr Saifur Rahman: There is heavy corruption in Bangladesh, in both the spheres of intellect and finance. The intellectual corruption indicates the fact that most people in Bangladesh are not wise enough to accept their lack of knowledge and experience. They don't want to admit that they don't know something. They just keep depending on their 20-year-old knowledge and repeating the same mistakes. Then there is financial corruption everywhere. I want to help the people of Bangladesh to overcome them and I don't want to earn any money while at it. I have been called by the government and Bangladesh Energy and Power Research Council (EPRC), from Bangladesh's Prime Minister's office. I am one of the advisors. We had a meet in Bangladesh about how to encourage the people in Bangladesh to do research. They agreed to fund for this noble cause. The Chairman and the Secretary along with people from National Science Organization, many American & Bangladeshi engineers visited my lab. My lab is working on Building Energy Management which they want to repeat in BUET, which is a good initiative. They are now writing up a plan to start a research funding program in Bangladesh on energy and power. I hope it works. Some works are already being done, but the progress is slow. However, I am involved and always will be. But I have some level of ethics and intellect which I will not compromise at any cost.

Mohammad Mahinur Rahman: Sir, any word of advice you would like to say to our young generation.

Dr Saifur Rahman: Search for knowledge! You do not know everything. You must have the thirst to learn things that are new to you, things you haven't heard of. Google has made the whole process of learning so much easier these days. Secondly, if you want to do something, first ask yourself if you are really passionate about it and if you can be an expert in this field. Ask yourself if it will get you a lot of attention. Do not approach because it might or might not get you a lot of money. People can do two things. They can either become rich or become famous. I will suggest people become famous first. To be famous you need to earn knowledge. Thirdly, do not compromise your ethics and morals. Do not fall a prey to corruption or misleading information. Keep your head high, learn and speak out, because you are not learning things for your personal gain. If you can do these things, seek knowledge and be ethically good, you can and will go a long way.

Mohammad Mahinur Rahman: Thank you, Sir, for a wonderful time.

Dr Saifur Rahman: You are welcome.



**2018 Outstanding Section Membership
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