

IEEE Women in Engineering BD Newsletter-2016

WIE Affinity Group, IEEE Bangladesh Section



Message from the Advisor, WIE Affinity Group, IEEE BD section



It is my privilege to be part of the WIE newsletter published by the WIE Affinity Group, IEEE Bangladesh Section featuring their activities in 2016.

The activities featured here are highly aligned with the theme of the group, which is to inspire, engage, encourage, and empower women engineers, scientists, and young professionals in Bangladesh. These activities created a wide platform to discuss and exchange ideas and experiences among all, which will definitely help the women engineers in streamlining the role of them in the development of the technical society around.

This newsletter is an effort to showcase IEEE women's achievements in Male-dominated Engineering profession in Bangladesh.

It is my honour to thank all the members and volunteers for their hard work in publishing such an informative newsletter.

Celia Shahnaz, Ph.D.
Advisor, WIE Affinity Group, IEEE Bangladesh Section
&
Professor, Dept. of EEE, BUET, Dhaka, Bangladesh

Message from the Chair, WIE Affinity Group, IEEE BD section



I am indeed very happy for being a part of the WIE, IEEE BDS newsletter for the year 2016.

IEEE is committed to the realization and maintenance of an environment in which scientists and engineers, regardless of ethnicity, religion, gender or nationality, have the right to pursue their careers without discrimination. IEEE WIE is playing great roles by engaging and empowering women engineers, scientists and young professionals to fulfill the mission and vision of IEEE.

WIE Affinity Group, IEEE Bangladesh Section is one of the most active affinity group among global WIE community by virtue of its diversified activities both in technical and non-technical fields not only in Bangladesh but also around the globe. This newsletter is an effort to showcase and highlight WIE BDS's achievements and activities for the year of 2016.

On behalf of WIE Affinity Group, IEEE Bangladesh Section, I highly appreciate all the members, volunteers and advisors working relentlessly for months and years to conduct all the activities successfully. I also feel honoured and privileged to thank all the members of the newsletter team for publishing such an explanatory and contemporary newsletter for the year 2016.

I wish WIE, IEEE Bangladesh Section a great journey ahead!

A handwritten signature in black ink, appearing to read 'Samantha'.

Samantha Lubaba Noor
Chair, WIE Affinity Group, IEEE Bangladesh Section
&
Senior Lecturer, Dept. of EEE, East West University, Dhaka, Bangladesh

Activities of WIE AG, IEEE BD Section in 2016

1. WIE BD celebrates International Women's Day

International Women's Day is celebrated worldwide every year on the eight day of March. To celebrate womanhood, Women in Engineering (WIE) AG, IEEE BDS celebrated International Women's Day at the Conference room of ICT, BUET on 19 March, 2016.



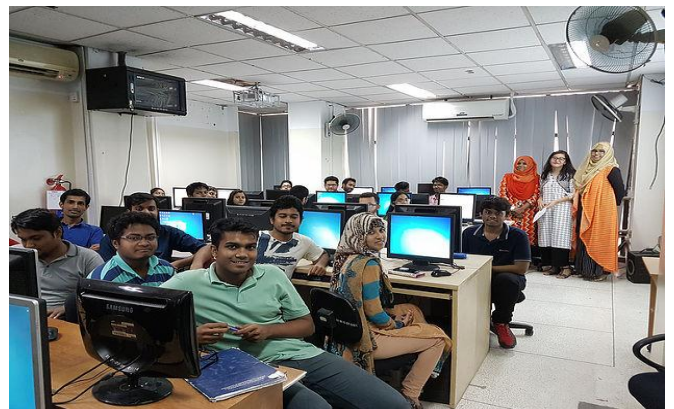
20 participants including 10 IEEE members joined the event. The event was focused on Talks by two prominent speakers who are successfully leading in academia and corporate sector. The first speaker-Professor Dr. Shahida Rafique, President, OWSD NC Bangladesh, discussed and exhibited "The Current Statistics of Women in STEM. Later, Anamika Bhakta serving as the Vice President, Technical Regulations, Regulatory affairs, Robi Axiata Ltd. presented the 2nd talk on "Effective Communication Skill".

The event helped the participants to know about important communication skill necessary for everyone to conduct their professional task. Also, they could know about the participation and contribution of women in our country in STEM. The event was moderated by Dr. Celia Shahnaz, 2016 IEEE R10 WIE Coordinator; Advisor and Past Chair, WIE AG, IEEE BDS.



2. WIE Workshop on 'Writing Scientific Article using LATEX' at BRAC University

A workshop on writing scientific article using LATEX was accomplished successfully at BRAC University premises on 17th May 2016. The workshop was jointly organized by WIE, IEEE BDS and IEEE BRACU SB. There was a total of 44 students attending the workshop, of them 26 were IEEE members and others were non-IEEE members.



Irtiza Haque, System Engineer, Grameenphone Limited and Shoilie Chakma, Lecturer of EEE department, BUET were the two instructors. They are also the workshop Coordinator of WIE, IEEE BDS. They showed the students different skills and techniques of writing effective scientific paper using LATEX. Samantha Lubaba Noor, Chair of WIE, IEEE BDS gave a short speech on the use of LATEX for writing scientific paper and its assistance.

3. Workshop on PCB Design Jointly Organised by WIE AG, IEEE BDS and IEEE Stamford University Bangladesh SB WIE AG

A workshop on PCB Design was organized on 22nd May by WIE AG, IEEE BDS and IEEE Stamford University Bangladesh SB WIE AG at Stamford University Bangladesh. About 40 students participated in this workshop. Among them, 25 were IEEE members and 15 were non-IEEE members. The program was conducted by Baishakhi Rani Biswas, Lecturer, Green University of Bangladesh and Ratul Das, Research Engineer, Energypac Engineering Ltd.

The participants learnt how to draw and simulate circuits using Proteus and after that how to make PCB design from Circuit diagram using Proteus.



The workshop ended up with the valuable speech of Prof. Dr. Enamul Basher, Chairman of Department of EEE, Stamford University Bangladesh. This event is supposed to play an important role for invigorating the activities of Stamford University Bangladesh SB and its WIE AG.

4. Workshop on how to “Build Beautiful Websites Yourself” Jointly Organized by WIE AG IEEE BDS and IEEE AIUB SB WIE AG

On 1st June, 2016, IEEE AIUB SB WIE AG in association with IEEE BDS WIE AG, hosted a workshop titled “Build Beautiful Websites Yourself”, at Faculty of Engineering Building, AIUB. The goal of the workshop was to familiarize IEEE members, especially IEEE WIE members, with the various methods and factors to consider

while building a website. The participants comprised 16 female students and 4 male students; all of whom were IEEE members.

The event commenced with an opening speech delivered by Dr. Md. Abdur Rahman, Director and Associate Professor, Faculty of Engineering, AIUB; Advisor, IEEE AIUB SB; Educational Activities Coordinator, IEEE BDS. Dr. Lamia Iftekhar, Assistant Professor, Department of ECE, North South University (NSU); Vice-Chair, WIE AG of IEEE BDS conducted the workshop.



She gave an informative presentation on IEEE WIE AG, where she elucidated upon the mission and vision of WIE. Afterwards, she gave a brief description about different types of websites and their applications. Then, she went on to build a website on www.weebly.com - an online platform, and subsequently launch it. She explained the necessity of regular updates to a website, to maintain convenience for the users. On that note, she suggested to be heedful of online ethics as well as originality, while factoring in design and developing a website.

As the event concluded, Mr. Rinku Basak, Head of Graduate Program and Assistant Professor, Faculty of Engineering, AIUB, delivered the closing speech.

5. RoboTutor Workshop

On June 2, 2016, a Robotics Workshop organized by WIE AG, IEEE BDS was held at ECE Building, BUET. It was moderated by honorable founder of the WIE AG, IEEE BDS and R10 WIE Coordinator Dr. Celia Shahnaz. The main goal of this workshop was to give brief information about how to

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implement PID algorithm for making a perfect Line Follower Robot (LFR). The event included a one-day workshop divided in two sessions. The workshop covered various aspects of Robotics-basics of Arduino, understanding the Line Follower and making the Line Follower Robot. Training was instructed by Shimanto Chowdhury, Nael Mizanur Rahman & Shariful Islam Foysal- members of the team "AC~DC Labs" who were the 1st Runner-up at iARC-2015, Champion of Formula R v2.0 and winners of various local robotics competition.



Total 18 students from various universities joined this workshop- among them 14 were IEEE members. All the participants were provided with Full Line Follower Robotics kit that included Arduino, Sensor array, motors, motor driver, chassis & connectors. The first session covered the basic introduction – where participants could derive elementary knowledge of robotic operation. In the second and final session they developed and run their own line follower robots using given set of software and kit tools under the guidance of the instructors.

At the ending of this successful program, all the participants received electric certificates of participation and most importantly, inspiration for future to roam about in the world of robotics with great enthusiasm!

6. Workshop on “Writing Scientific Article Using LATEX” Jointly Organised by WIE AG IEEE BDS and IEEE AUST SB

On 2nd June, 2016 IEEE AUST SB and Women In Engineering AG, IEEE BDS jointly organized a workshop titled “Writing Scientific Article Using

LATEX” at the department of EEE of Ahsanullah University of Science and Technology (AUST). 28 participants attended the workshop. Among them 15 participants were IEEE members and 13 participant were non-IEEE members. The participants found the workshop really informative and useful as they can use this knowledge in their academic, research and writing works.



The workshop was inaugurated by the IEEE AUST SB Convener and Head of the department of EEE, Professor Dr. Abdur Rahim Mollah. Branch counselor Mr. Md. Masoodur Rahman Khan was also present at the event and gave an inspirational speech on the usefulness of this workshop. Mrs. Kazi Khurshidi Haque Dia, Secretary of WIE, IEEE BDS, 2016 and assistant professor at department of EEE, AUST was also present at the workshop. The instructor was Ms. Shoilie Chakma: lecturer at the department of EEE at BUET and workshop coordinator of WIE, IEEE BDS.

The purpose of arranging such a workshop was to introduce LATEX to the participants so that they can develop an understanding on the advantages and differences between Microsoft word and LATEX and to motivate them to learn writing Research Paper using LATEX.

7. Workshop on LATEX Jointly Organized by WIE AG IEEE BDS & IEEE UIU SB WIE AG

On June 25th, 2016, WIE AG, IEEE BDS and IEEE UIU SB, WIE AG jointly organized a workshop on LaTeX: Writing Scientific Article, Papers & Journals at United International University. The total participants of the workshop were 25 including 18

IEEE members and 7 non-members. The instructors were workshop co-coordinators of WIE AG, IEEE BD section. Shoilie Chakma, Lecturer from BUET and Irtiza Haque, System Engineer, Grameen Phone Limited successfully conducted the workshop. In the workshop TeXmaker software with an additional compiling program of MikTeX were used. The participants were taught about the TexMaker platform and how it operates, benefits of LaTeX over Word Doc and lastly giving the participants a small task on writing the top page of a simple article with LaTeX.



8. Professional and Research Opportunities for Women at Home and Abroad

On July 15, 2016, WIE AG IEEE BDS organized the event “Professional and Research Opportunities for Women at Home and Abroad” at ECE building, BUET. The 3 speakers were the valued executive committee members of WIE AG IEEE-BDS. Total number of participants was 14 and all of them are IEEE members. Mohasinina Binte Kamal is a senior Engineer from Energypac Engineering Ltd. She served WIE BDS as Treasurer of WIE BD section for the first half of 2016. She received a full funding and Research Assistantship in University of Akron.

Ms. Kamal mentioned how joining WIE has helped her academically as well as professionally. She demonstrated the development of her career and how it helped her to achieve the funding in her cherished universities. Farhana Parveen was a Lecturer of Stamford University Bangladesh. She served as the Project Proposal Coordinator of WIE BD section for the year 2015. She mentioned how WIE has brought

a positive change in her lifestyle and has boosted up her confidence.



Pramiti A Alam is a Deputy Manager of Energypac Engineering Ltd. She served as the Newsletter, Information and Publication Coordinator of WIE BDS for the year of 2015. She mentioned how WIE breaks the typical stereotype of women by encouraging them to engage in professional and research activities.

9. Workshop on Introductory MATLAB & its Applications jointly organized by IEEE Stamford University SB WIE AG and WIE, IEEE BDS

On 23 July 2016, WIE AG, IEEE BDS & IEEE Stamford University SB WIE AG jointly organized a workshop titled on "Workshop on Introductory MATLAB & its Applications" at MCL-B Lab of Stamford University Bangladesh. About 47 students participated in this workshop. Among them, 27 were IEEE members and 20 were non-IEEE members.

Md. Nurunnabi Mollah, Industrial Activity Coordinator, IEEE BDS gave an inspirational speech to the participants and he mentioned the importance of MATLAB for an Electrical & Electronic Engineer. He also thanked all the participants for participating in the workshop.

Introductory MATLAB part was conducted by Tanima Tasmin Chowdhury, Lecturer, Dept. of EEE, University of Asia Pacific. The applications of MATLAB part was conducted by Proteeti Peya, Assistant Engineer, Procurement, Power Grid Company of Bangladesh Ltd. and also Professional Activities Coordinator of WIE, IEEE BDS. Sultana

Razia Akhter, Lecturer, Dept. of EEE and Dr. Dilshad Mahjabeen, Branch Counselor, IEEE Stamford University SB were present at the workshop.



10. Workshop on PCB Design using Proteus Jointly Organized by WIE AG, IEEE BDS & WIE AG IEEE NSU SB

On July 23th, 2016, WIE AG, IEEE BDS and IEEE NSU SB, WIE AG jointly organized a workshop on PCB design: Drawing and Simulating Circuits, Drawing PCB Design. The program was conducted by Baishakhi Rani Biswas, Lecturer, Green University of Bangladesh and Ratul Das, Research Engineer, Energypac Engineering Ltd. A total of 28 participants were attended the workshop. Among them, 16 were IEEE members and 12 were non-IEEE members.

At first the participants were taught how to draw and simulate circuits using Proteus and then they learned how to draw a PCB design using it. All the participants received certificates for their successful participations.



11. Workshop on Introduction and Application of SPICE jointly organized by IEEE UIU SB WIE AG and WIE, IEEE BDS

On July 29 a workshop was held at United International University on "Introduction and Application of SPICE". Ms. Nujhat Tasneem and Shoilee Chakma conducted the workshop which was jointly organized by IEEE UIU SB, WIE AG and WIE AG, IEEE BDS. There were a total of 15 participants. 14 of them were IEEE Members and one was a non-member, all were from UIU.



The participants were informed about SPICE which is a general purpose, open source analog circuit simulator and used in integrated circuit and broad level design to check the integrity of circuit designs and to predict circuit behavior. The conductor showed how various circuit analyses can be done with the help of PSpice.

12. Workshop on Introduction and Application of SPICE jointly organized by IEEE Stamford University SB WIE AG and WIE, IEEE BDS

On 30 July 2016, WIE AG, IEEE BDS & IEEE Stamford University SB WIE AG jointly organized a workshop titled "Introduction and application of Spice" at MCL-B of Stamford University Bangladesh. About 38 students were present in the workshop. Among them, 24 were IEEE members and 14 were non-IEEE members.

The workshop was conducted by Nujhat Tasneem, Lecturer, Department of EEE, BRAC University and Student Activities Coordinators, WIE, IEEE BDS. She introduced participants with "PSPice" software

and its application. Participants got a basic concept about "PSpice" through the workshop.



Farhana Parveen, Lecturer, Department of EEE, Stamford University SB & Ex Branch Counselor, IEEE Stamford University SB, Sultana Razia Akhter, Lecturer, Dept. of EEE, Stamford University Bangladesh and Branch Counselor & Md. Multan Biswas, Senior Lecturer, Department of EEE, Stamford University Bangladesh were also present at the workshop. Md. Nurunnabi Mollah, Industrial Activity Coordinator, IEEE BDS came to the workshop as well. He said that he was delighted to see such a huge response from the IEEE Stamford University SB. He also suggested the members to engage in more IEEE activities.

The workshop ended up with the inspirational speech given by Prof. Dr. Taifur Ahmed Chowdhury, Chairman, Department of EEE, Stamford University Bangladesh & Branch Counselor of IEEE Stamford University SB.

13. Workshop on "Make Beautiful Website Yourself" Jointly Organized by IEEE AUST SB WIE AG and WIE, IEEE BD Section

WIE AG IEEE AUST SB and WIE AG IEEE BDS jointly organized a workshop on - "Make Beautiful Website Yourself" on 30th July at Dept. of CSE of Ahsanullah University of Science and Technology (AUST) for the undergraduate students of AUST. The workshop was conducted by Dr. Lamia Iftekhar, Vice-chair of WIE AG, IEEE BDS. Around 23 students participated at the workshop and all of them were IEEE members.

Masoodur Rahman Khan, Counselor of IEEE AUST SB, inaugurated the workshop. Ms. Kazi Khurshidi Haque Dia, Advisor of WIE AG IEEE AUST SB, Secretary, WIE IEEE BD Section and Silvia Tasnim, Student Activity coordinator, WIE IEEE BD Section and Mr. Ahammad, Assistant professor, Dept. of EEE of AUST were also present during the event.



Several example websites were shown to participants before starting to build own websites. By the end of the workshop, the participants had built a website according to their choice. The students were presented with certificates and were encouraged to continue developing their websites.

14. Workshop on PCB Designing and Prototyping Jointly Organized by WIE AG, IEEE BDS & WIE AG, IEEE BUET SB

On September 22, 2016, a workshop on PCB Designing and Prototyping was organized by IEEE BUET SB in collaboration with WIE AG, IEEE BUET SB and WIE AG, IEEE BDS at ECE Building, BUET. The workshop was conducted by Shuvangkar Chandra Das, Chairperson of IEEE BUET SB, and Rakibul Islam Chowdhury, Vice-Chairperson of IEEE BUET SB.

This was the biggest workshop conducted for both IEEE BUET SB and WIE with a record number of 208 participants with 50 IEEE members. The workshop was conducted in three sessions in which the participants learnt about the basics of PCB design and then the application of the theory on a design project.



The workshop was concluded by some inspiring words from the respected faculty members of BUET, EEE Department- Arnab Bhattacharjee and Asir Intisar Khan. Both the instructors and the participants enjoyed such motivating workshop. The knowledge and skills acquired from the workshop will help the participants in future projects involving electronic devices and embedded systems.

15. The R10 WIE Support Funded Program 2016 “Engineer Your Dreams” Organized by WIE, IEEE BD Section

The R10 WIE support funded program ‘**Engineer your Dreams, 2016**’ was held at Holy Cross College, Dhaka, Bangladesh on September 30, 2016. The five hour lasting program was scheduled with different sessions for Electronics Workshop, Interactive Quiz, Short Presentation on Successful Women Engineers and Idea Sharing Competition. The program was organized by WIE AG of IEEE BDS. 29 participants from the college attended the event all of whom are non-IEEE member.

The program started with the opening speech of Chair, WIE, IEEE BDS; Samantha Lubaba Noor. She explained the motto of IEEE and WIE, activities and journey of WIE, IEEE BDS. Other executive members of WIE, IEEE BDS also introduced themselves to the participants. Dr. Lamia Iftekhar, Vice Chair, WIE, BDS then started conducting the session.

The first session was a hand on workshop on “Secured Home System”. Professional Activities co-ordinator, WIE, IEEE BDS handled this part. The

main objective of this part was to make the participants acquainted with different components of



circuits, techniques and skills for building electrical circuit in bread board. Every student from the audience was given then necessary circuit elements to construct a Burglar Alarm for property Security. Basic circuit elements were introduced to the students, showing how these small and simple electrical components are helping our every-day life and making things easier for us. Student Activities Coordinator of WIE, IEEE BDS Silvia Tasnim and Tanima Tasnim were also there to help the students individually with their circuits.

After this session a Question-answer based ‘Interactive session’ was conducted on emerging topics of science and engineering.



All of the students participated spontaneously and enthusiastically. Based on frequency of answers, quick participation three winners were selected. The students were given some refreshments.

The next session was a presentation on “Successful Women Engineers and Scientists in History” to demonstrate how the women engineers and scientists have contributed in the era of science and technology and also how girls are having their impacts world-wide specially in Engineering. Ms. Shoilie Chakma, Workshop Coordinator of WIE, IEEE BDS conducted this part. The main aim of this session was to make them aware that a girl can also have the ability to change the world with her creativity and innovativeness.

The final session was “Idea Sharing Competition”. In this session the students were divided into a 3 member group. They were asked to think of any particular problems in Bangladesh and how they may solve the problem. They were asked to share their ideas using art-paper, color pen etc. within 20 minutes. They were guided that their project ideas might be any type of problems that could be solved technically and effectively. 20 minutes later, each group shared their ideas with solution within 2 minutes. They shared innovative ideas with excellent presentation. According to their expansion of thinking, presentation skill, reliability of the project, 3 groups were selected as winners.

After all the sessions, students were awarded for participating in different sessions. In this Award giving ceremony awards were given in the following categories – Interactive session: 3 students were gifted for being the first in answering different questions. Idea Sharing Competition session: 3 groups were awarded for sharing their excellent ideas. Finally, the closing ceremony was held with the presence of the Honorable faculty of Holy Cross College, Ms. Chitra Das. She handed over tokens of appreciation to the conductors of the program.

16. Celebration of IEEE Day 2016: Leveraging Technology for a Better Tomorrow

On October 4, 2016, IEEE BUET SB, in collaboration with WIE AG, IEEE BDS and IEEE BDS celebrated IEEE Day 2016. The event, held at ECE Building, BUET, was moderated by Dr. Celia Shahnaz, WIE R10 Coordinator and founder of WIE AG, IEEE BDS. 60 IEEE members joined the event. There was an official photo session, followed by a

cake cutting ceremony. After the distribution of the ‘IEEE Day 2016’ t-shirts, the event was inaugurated by Dr. Quazi Deen Md. Khosru, Head, Department of EEE, BUET.



Dr. Shaikh Anwarul Fattah, Professor, Department of EEE, BUET and Chair, IEEE BDS; and Mr. Yeasir Arafat, Assistant Professor, Department of EEE, BUET and Vice Chair (Activity), IEEE BDS were also present.



Afterwards, a technical talk by our invited speaker, Ms. Aparajita Goswami, Deputy General Manager, Grameenphone, was held. Her talk focused on ways of enhancing skills for a better career development and a better future.

17. Workshop on Graphics Designing Jointly Organized by WIE AG, IEEE BDS & WIE AG, IEEE BUET SB

A workshop on Graphics Designing was held on October 6, 2016 at ECE building in BUET jointly organized by IEEE BUET SB; WIE AG, BUET SB and WIE AG, IEEE BDS. The main goal of this workshop was developing basics of graphics so that

participants could get acquainted with this engrossing field and manuals of running some software for this purpose. 107 participants joined this workshop including 50 IEEE members. Two professional motion graphics designers and entrepreneurs- Zafir Shafiee Chowdhury and Maruf Raihan conducted this workshop as instructors

At the end of the workshop, all the participants were given certificates of participation as inspirations. The instructors were also given certificates and crests as an appreciation for their enormous effort.



18. Inauguration Ceremony of Five WIE SB in IEEE BDS & Launching of All Bangladesh IEEE WIE SB AG Network

On 27th October 2016, WIE AG, IEEE BD Section and AIUB WIE SB jointly organized “Inauguration Ceremony of 5 new WIE SB in IEEE BDS & Launching of All Bangladesh IEEE WIE SB AG Network” at the Auditorium of Faculty of Business Administration Building, AIUB. The day-long event hosted around 100 participants (all IEEE members) and consisted of multiple sessions.

The event was initiated with the opening speech from Professor Dr. A.B.M Siddique Hossain, Dean, Faculty of Engineering, AIUB. Following this were welcoming speeches delivered by Dr. M. Tanseer Ali, Counselor of IEEE AIUB SB; Assistant Professor, Faculty of Engineering, AIUB and Tasnuva Tasneem, WIE Advisor IEEE AIUB SB; Lecturer, Faculty of Engineering, AIUB, respectively.



Later, a cake cutting ceremony took place where the cake was cut by the WIE delegates and the faculty members, to officially inaugurate the event, which was then distributed amongst the attendees.

Following that, the WIE AG of Stamford University Bangladesh, Ahsanullah University of Science and Technology, North South University, Bangladesh University of Engineering and Technology and American International University Bangladesh took the stage respectively, where representatives from each of the universities gave a presentation on their AG and its future prospects. This was followed by a group photo session. The next segment started with a presentation from Ms. Samatha Lubaba Noor, Chair, WIE IEEE BDS, in which she talked about the WIE events that took place at other branches this year.

Up next, the stage was taken by Dr. Celia Shanaz, Advisor; Founding chair of WIE AG, IEEE BDS and IEEE R10 WIE Coordinator, who gave a presentation on WIE's past and present state in Bangladesh. Following her, Chowdhury Akram Hossain, Student Activity Coordinator, IEEE BDS delivered a presentation on SAC. After these, a small video was shown to the attendees on inauguration program of WIE.

Finally, the event was concluded by handing a crest to Dr. Celia Shanaz by Dr. M. Tanseer Ali, on behalf of Professor Dr. Shaikh Anowarul Fattah, Chair, IEEE BDS.

19. R10 WIE Support Funded Program 2016 “Creativity, Innovation to Women Entrepreneurship” Organized by WIE AG, IEEE BD Section

The R10 WIE support funded program ‘Creativity, Innovation to Women Entrepreneurship’ was held at Bangladesh University of Engineering and Technology (BUET), on October 28, 2016. The program was designed with different sessions like professional talk, training session by Planeter Ltd, idea generation session and industrial visit to BUET power plant. The program was organized by WIE AG of IEEE BDS. 50 participants comprising of students and professionals from different organizations attended the event. 30 of them were IEEE members.

The program started with a professional talk delivered by Sonia Bashir Kabir, Managing Director, Microsoft Bangladesh Ltd. She shared her life experiences and the challenges she faced in her working field including the gender difficulties. She is a woman driven by passion and interest. Her life story motivated the young minds. She also shared her entrepreneurship journey. Later on WIE Chair, Samantha Lubaba Noor presented Miss Kabir with a token of appreciation for making out time from her busy schedule.

A training session was then held by Rini Ehsan Khusboo, CEO, Planeter Limited on entrepreneurship. She led the session by discussing how she created a place for her in growth enterprises and managed finances.



She also talked about some of her marketing strategies, financial strategy and the difficulties she faced when people didn't want to rely on a local start up. She mentioned about the job opportunities of women in her company. It was a very interactive session. Later on Khusboo was presented with a token of appreciation by the Treasurer of WIE executive committee, Anamika Bhakta for conducting the session.

An interesting “Idea generation” session was held for the participants where the participants were divided into groups of five. After being inspired from the speakers and her stories, this was the opportunity for the participants to come up with innovative ideas for a start-up. It was a group activity where professionals from different organizations and students came under one roof and formed teams with each other and presented their ideas in front of the judge, Rini Ehsan Khusboo. The two best teams were awarded with prizes. The participants were later taken to the BUET power plant for an industrial visit. A session was held there explaining the basics of a power system.

20. Industrial Tour of WIE AG, IEEE BUET SB to Energypac Engineering Limited

On October 13, 2016, WIE AG, IEEE BUET SB in association with WIE AG, IEEE BDS and IEEE BDS, organized an industrial visit to Energypac Engineering Ltd., Savar, Dhaka. This visit was a part of the celebration of IEEE Day 2016. With a total number of 21 participants (all IEEE members), the tour was accompanied by Ms. Shoilie Chakma, Lecturer, Department of EEE, BUET.



With an aim to go beyond academics, such industrial tours gave the students firsthand information regarding functioning and real working environment of industry. Along with that, it provided an opportunity to plan, organize and engage in active learning experiences both inside and outside the classroom. Moreover, it helped them see their future place in the working world by giving them exposure to current work practices.



The participants were first briefed about the various products like power transformer, distribution transformer, instrument transformer, switchgear and control panels, vacuum circuit breakers etc. manufactured at Energypac. They were later escorted to the manufacturing plants and testing labs. These provided the students an opportunity to learn practically through interaction about working methods and employment in Energypac.

21. IEEE R10 Innovation Workshop (TENNINOW) Organized By BUET WIE SB AG and WIE AG, IEEE BDS

On November 3, 2016, BUET WIE SB AG and WIE AG, IEEE BDS organized 'IEEE R10 Innovation Workshop (TENNINOW)' at ECE Building, BUET. The total number of participants was 30 and all of them were IEEE members. Mr. Sudeendra Koushik and Ms. Pragya Dixit conducted the workshop. The knowledge and skills acquired from the workshop will motivate the participants to be more innovative and stretch the existing boundaries to achieve their desired goal



Mr. Sundeendra Koushik has completed his PhD on innovation. He has 24 years of international experience in product innovation and development and more than 20 national and international patents in various stages. He is a key note speaker, writer and evangelist of MIT emerging technologies conference. He is a Trainer and Educationist Entrepreneur, Co-founder of Prasu and Anya.

Ms. Pragya Dixit, on the other hand, has completed her PhD on Entrepreneurship and is a highly successful serial Entrepreneur, Educationist and noted speaker. Prior to and in-between her entrepreneurship career, she also worked as a Professor in entrepreneurship. She is the Founder of Heritage and Co-founder of Prasu and Anya. She is a well-known speaker in various forums including IEEE, PMI, etc.



The speakers first shared about their experiences in innovation and entrepreneurship, the barriers they had to face in their careers and how the barriers were overcome. Their words were highly motivating and inspiring, and encouraged all the participants to work hard and find out the true passion among them.

The sessions were highly interactive and helpful for developing interpersonal skills.

The workshop was concluded after displaying some video clips on innovation, self-confidence and courage. Both the instructors and the participants enjoyed the workshop.

22. WIE Session at “IEEE BDS SYW Congress 2016”

On November 04, 2016 in “IEEE BDS SYW Congress 2016” WIE, IEEE BDS arranged a WIE session with a theme of ‘Role of male for women empowerment and leadership development.’

The session aims to introduce successful women entrepreneurs and women leader in the field of Engineering in Bangladesh to inspire the young engineers and students by showcasing their journey, story and how the male counterpart played an important role in their career journey. This inspired the participants to become entrepreneurs and leaders and the challenges they faced in their work environments.

The session started with a keynote speech by Prof. Dr. Celia Shahnaz, Professor, Department of EEE, BUET and 2016 IEEE Region 10 WIE Coordinator. She shared the experience and successful stories of her achievements including the contribution from the male counterpart in the whole journey. Her life story motivated the young minds.



After the keynote talk, there was a panel discussion where following panellists were present

1. Anamika Bhakta, Vice President, Robi Axiata Ltd. and Treasurer, IEEE WIE BD

2. Aparajita Goswami, Deputy General Manager, Core Network Planning, Grameenphone

3. Pramiti Anasuya Alam, Deputy Manager, Energypac Engineering Ltd.

4. Tania Rahman, Managing director, SinePulse GmbH, Germany and AplombTech BD Ltd, Bangladesh.

The key discussion was how a male counterpart played a significant role in the professional life for career advancement, what type of negative attitudes experienced from men and how those situation was handled, what are the specific aspects of a woman's career where the help of men is particularly important etc.

In the end an interactive quiz session was conducted by Shoilie Chakma, and Nujhat Tasnem Lecturer, Department of EEE, BRAC University. The session was divided into 3 parts named TRIVIA, JEOPARDY, PUZZLES & DESIGN where the participants participated the quiz session very actively.

23. Workshop on Web Design Jointly Organized by WIE AG IEEE BDS & IEEE Stamford University SB WIE AG

On 12th November, 2016, IEEE Stamford University SB WIE AG in association with WIE AG, IEEE BDS organized a workshop on “Web Design”, at MCL-B Lab of Stamford University Bangladesh. The objective of the workshop was to show the participants how to build a website simply by dragging and dropping several buttons instead of coding. In total 22 students participated in this workshop, out of which 16 were IEEE members.

The workshop was conducted by two instructors, Miss Syeda Iffat Naz and Miss Nafisa Zarrin Tasnim, Assistant Engineers at Energypac Engineering Ltd. and publicity coordinators of WIE AG, IEEE BDS.

At first a brief description about the different platforms that can be used to build a website was given. Later an online platform, www.weebly.com, was used to build the website. The website builder used by the instructors helped the participants to make amazing websites without any coding

knowledge. After showing the participants how to build a website, the participants were also asked to make a simple short website to understand if they could grasp the contents well. The participants came up with different innovative ideas.

Dr. Nurunnabi Mollah, Professor, Department of EEE, Stamford University Bangladesh and Industrial Activity Coordinator, IEEE BDS came and talked with the instructors, thanked the participants for their participation and emphasized on the importance of IEEE as one of the largest network for electrical engineers.



24. ‘Discussion on Successive Outcome of IEEE Stamford University Bangladesh Student Branch’ Organized by IEEE BDS, WIE AG of IEEE BDS & IEEE Stamford University SB WIE AG,

On November 23, 2016 an event was held at the IEEE Stamford University SB titled as ‘Discussion on Successive Outcome of IEEE Stamford University Bangladesh Student Branch’. The event was jointly organized by: IEEE Bangladesh Section, WIE AG of IEEE BDS, IEEE Stamford University Bangladesh SB, IEEE Stamford University Bangladesh SB WIE AG. The no. of participants was 45 among which 35 were IEEE members

The event included experience sharing of Chair, IEEE Stamford University Student Branch and Chair of its WIE AG; Secretary and Online Coordinator, IEEE Stamford University SB regarding their IEEE activities in 2016. After this session Dr. Feroze Ahmed gave his speech regarding the betterment of the Engineering field through IEEE.



Prof. Dr. Taifur Ahmed Chowdhury discussed the present scenario of the Engineering field in Bangladesh and gave the proper Idea to focus for our goal. Dr. Enamul Basher and Prof. Abu M Wahidullah encouraged the present students to focus on their studies as well as to join the IEEE sharing its benefits.

In the next session, Kazi Khurshidi Haque Dia gave her speech and shared her ideas for getting the better output from a SB and also suggested some activities to follow for future. Also Abdullah Ash- Saki, the Mentor of IEEE Stamford University Bangladesh SB gave a presentation on the ‘Transition from Student Life to Career’. He focused some of the points that really identifies the problem during the different sessions of an Engineers life and also discussed for overcoming those aspects.

At the very end Dr. Dilshad Mahjabeen (Associate Prof.; Dept. of EEE & Counselor of of IEEE Stamford University Bangladesh SB) ended the event with her charming words towards all the guests, participants and volunteers who are working on the platform of IEEE for the betterment of the universe.

25. Workshop on LATEX Jointly Organized by WIE AG, IEEE BDS & IEEE Stamford University SB WIE AG

A workshop on “LATEX” was jointly organized by WIE AG, IEEE BDS & IEEE Stamford University SB WIE AG on 26th November 2016 at MCL-B Lab of Stamford University Bangladesh. In total 24 students participated in this workshop, out of which 18 were IEEE members.

The workshop was conducted by two instructors: Ms. Syeda Iffat Naz and Ms. Nafisa Zarrin Tasnim, Assistant Engineers, Energypac Engineering Ltd. and publicity coordinators of the executive committee of WIE AG, IEEE BDS. The participants were told about the advantages of using LATEX over Word Doc for writing thesis, IEEE conference paper, journal, report and scientific article. At the end of the workshop the instructors were handed over a token of appreciation for conducting the workshop. The participants were also given certificates for attending the workshop.



26. "Career Expo" Jointly Organized by Department of EEE, BUET, BUET IEEE SB, BUET WIE SB AG and WIE AG IEEE BDS

Work! Job! Career! – These are something everyone dreads and worries sometimes from halfway to end of university life. Keeping that in mind, Department of EEE, BUET in collaboration with BUET IEEE SB, BUET WIE SB AG, WIE AG IEEE BDS organized a “Career Expo” on the occasion of EEE Day 2016 in BUET on 1st December, 2016. Around 66 students joined this talk- among them 30 were IEEE members.

It was mainly a technical talk that covered discussion about career opportunities for Electrical Engineers featuring distinguished guests from various industries. The talk was aimed to enlighten and embolden soon to be engineering graduates stepping into their professional lives. At first, Nabila Kawser, R&RS coordinator ,Manufacturing, Supply Chain at British American Tobacco, Bangladesh shared her versatile experience of choosing right way to career.



After that, the second speaker Mr. Zaved Parvez - the Vice President and the Head of Integrated Planning of Finance Division at Robi Axiata Limited gave a motivational speech on quest of true happiness in life based on his exuberant professional experience.

Ms. Tanzim Faruque Aditi, Co-founder and Director of AUS-BANGLA Communications Limited briefed about importance of having fluency in English language to delicate with international clients on the way of her entrepreneur career. Then, Dr. Reduan Hasan Khan- Deputy General Manager at Grameenphone & founder at AUS-Bangla Communications Limited emphasized on making concise résumé for job application and taking preparation for some common but significant questions for interview.

In the end, Ms. Pramiti Alam from Energypac Engineering Limited spoke highly about her personal preference- exposure of candidate's honesty- in both CV and job interview.

Mohammad Abdullah Al Sohel, Lecturer, Dept. of EEE, BUET took the lead of the event where Mrs. Kazi Khurshidi Haque Dia, Secretary, WIE AG, IEEE BD Section, Mrs. Anamika Bhakta, Treasurer, WIE AG, IEEE BDS and Ms. Shoilie Chakma, Lecturer, BUET supervised the event. Dr. Celia Shahnaz, Professor, Department of EEE, BUET and IEEE R10 WIE coordinator moderated the whole event.

27. "An Invitation for Women to Dream BIG" at ICCIT 2016, organized by WIE AG, IEEE BD Section

WIE AG, IEEE BDS organized a special session "An Invitation for Women to Dream BIG" on 20th December, 2016, the third day of 19th International Conference of Computer and Information Technology (ICCIT) at North South University.

Around 33 participants including 15 IEEE members joined the event. The session was introduced with a short speech by Samantha Lubaba Noor, Chair, WIE, IEEE BD section. She highlighted on the purpose and progress of WIE, BD section from the very beginning of its journey in 2011 to current year including the winning IEEE Region 10 WIE Section AG award-2016.

The first session was enlightened by the presence of Dr. Shahida Rafique, Professor of Dhaka University and Chairman of Board of Governors of Institute of Science and Technology, National University. She delivered a talk on "Towards High Efficiency Solar Cells: Using Composite Metamaterials" by Dr. Shahida Rafique. She, along with her team, proposed a new structure of solar cells in which the absorption of light incident on the solar cell is expected to improve significantly by the use of composite metamaterials.



The next speaker was Tanzim Faruque Aditi, co-founder of Aus-Bangla Communications Ltd (an IT enabled services company based on Australia-Bangladesh partnership) and former Network Planning Engineer in Grameenphone Ltd. She mentioned that gender discrimination which a girl

faces from early age does not only exist in our country, but also is a very common scenario in the western world. She talked about the challenges and hurdles coming to her way in entrepreneurship and also gave some suggestions to the future entrepreneurs who want to come in this field.

The session proceeded with a panel discussion with audience on challenges and opportunities experienced by women in technology. This part of the program was conducted by Nujhat Tasneem, Student Activities Coordinator, WIE, IEEE BD section. The panel members were Jesin Zakaria, software engineer at Microsoft and Jeniya Tabassum, PhD candidate in Ohio State University. The discussion evolved around encouraging more women into technology. The audience agreed on the same point that to bring the positive change in the current percentage of female engineers, a wind of change is needed and this change can be ensured only by the women through their motivation and determination. Women should not limit their goals within orthodox mindset; rather, they should come out of the imaginary, man-made social barriers with confidence and courage to express their potential to the fullest. As Dr. Shahida Rafique mentioned, "Women can win over any difficulty only by their immense love and emotion and these human qualities differ a woman from man."



Finally the session ended with motivational talk by Sharmin Banu, leadership coach and former software engineer and lead at Microsoft. Her talk turned into a wonderful interactive session with the audience which put light to the day-to-day

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hectic work schedule of a professional woman and managing the workloads without even considering those as hectic. Setting priority and facing challenges from both family and workplace took an important part in the overall discussion. After the end of program, there was an arrangement for group photo session.

28. The 2016 IEEE International Women in Engineering (WIE) Conference on Electrical and Computer Engineering (WIECON-ECE 2016)

The 2016 IEEE International Women in Engineering (WIE) Conference on Electrical and Computer Engineering (WIECON-ECE 2016) was organized for bringing together individuals conducting research and professional activities in the area of ECE to share and present their latest innovation and findings. The conference was held in All India Shviaji Memorial Society's Institute of Information Technology, Pune, Maharashtra, India during December 19-21, 2016. The conference was jointly organized by IEEE Pune Section and IEEE BDS along with WIE AG of IEEE Pune Section and WIE AG of IEEE BDS. The theme of the conference is "Innovative research to build and lead the smart world".

Total 225 papers were submitted at the conference out of which 63 papers were accepted. Apart from regular paper presentations by registered authors, in this conference, some other technical activities were incorporated, e.g. seven keynote talks, five invited talks, five tutorial, Industrial track (conducted by CISCO) and humanitarian project competition.



The keynote speakers were: Dr. Bozenna Pasik-Duncan, Fellow IEEE, Professor, University of Kansas, USA; Dr. Sylvia Ratnasamy, Univ of California Berkeley, USA; Dr. Norliza M. Noor, Assoc. Prof., UTM, KL, Malaysia; Dr. Sankar Kumar Pal, Fellow of IEEE, Distinguished Scientist & Former Director, ISI, Kolkata, India; Mr. Amarnath Raja, CEO and co-founder of InApp; Dr. Ramalatha Marimuthu, IEEE WIE Chair 2011-12, Professor, KCT, India; Dr. Reena Dayal Yadav, Principal Engineering Manager, Microsoft India. The tutorials were on Spoofing Attacks in Voice Biometrics; Big Data; Cloud Computing; Recent Research Trends, Advances and Applications of Image Processing; Industrial Innovation and Entrepreneurship. Besides, there was a WIE forum conducted by Prof Dr. Celia Shahnaz, 2016 R10 WIE coordinator in collaboration with Dr. Rajashree Jain, Pune WIE AG Chair 2016. There were around 107 attendees were present at the conference.

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