

Candidate Full Name : Celia Shahnaz

Email: celia.shahnaz@gmail.com

Affiliation: Professor, Department of EEE, BUET and Vice-Chair Activity of IEEE BDS Execom

Number of Years with IEEE as valued Member: 16

Member Grade : Senior Member

1st Choice of position :Chair (Minimum 2 years as IEEE BDS ExCom experience is required)

1st Choice Position Statement (500 Words):

Maintain and enhance the vibrant activities of IEEE Bangladesh Section in the following ways:

Launching and enhancing activities of new societies of Bangladesh chapter, such as IEEE SPS IEEE RAS, IEEE SSIT and IEEE IAS.

Implementing Engineering Projects in Community Service (EPICS) in IEEE

Implementing projects funded by IEEE HAC, IEEE SIGHT, and IEEE Foundation

Implementing the Teacher In-Service Program (TISP) under IEEE Pre-university Education.

Inspiring Society sponsored conferences from EMBS, PES, EDS/SSCS

Play pivotal role in successful implementation of IEEE WIE Summit at Dhaka for the first time.

IEEE WIE NEW Initiative Program (WIENIP): IEEE WIECON-ECE, was held in Dhaka, Bangladesh, Dec 19-20, 2015 under my leadership. Considering its mega success in south asian countries in 2015. 2016, and 2017, IEEE WIECON-ECE can be promoted in another country in south east Asia, such as Thailand as a collaborative event between Bangladesh section and Thailand section.

Arranging DL program: to energize inactive societies by presenting role models in front of them for sharing their views, exchange ideas and latest findings.

Mentor and Mentee Program (MMP): MMP can be Implanted via webinars, online chats, and Women in Leadership Collabratic (WIL) Community to guide less active/ inactive students/YP/ WIE groups about designing innovative events

Strategy for sustainable membership: Design and conduct online survey and develop a student network to make strategies for sustainable

membership. Registration benefit for an IEEE member in IEEE programs, webinars, tutorials, workshops, internships, skill development and industry related programs, which will add value to membership, have to be funded/promoted as special events for the retention of membership

Developing student Branch activation Program:

Encourage student branches to update and report their activities by vtools. For inactive branches, web based mentoring programs can be initiated, where active student branches will serve as mentors for energizing inactive branches.

Innovating membership Retention Programs:

Counselling sessions for students with low CGPA, programs focusing industry requirements and skills to be developed, mandatory awareness and information exchange programs about student scholarships

and travel grants, internships with industry and company, part-time campus technical and professional jobs can motivate students for retention of their membership from year to year.

Designing Career lab: It will help guiding a student for proper choice of career

(academia and industry) based on the information and interest provided by the students.

Developing Web based information tool for higher study: based on the qualification (resume) and Toefl/ILTS/GRE scores of the student.

Arranging student competition in IEEE conferences as in ICASSP to boost up student membership as well as to ensure student participation in those conferences.

Arranging student competition on IEEE New initiatives: for gathering brainstorming ideas about possible funding applications to apply to IEEE NIPs

Making online education for disabled students accessible and affordable.

2nd Choice of position:

2nd Choice Position Statement (500 Words):

Contribution to IEEE Bangladesh Section (500 words):

The Humanitarian technology based activities that I initiated through the formation of FLASH has led many successful projects and helped Bangladesh section to won 2016 IEEE R10 HTA outstanding Activities award.

I played a significant role to get opportunity to organize IEEE Region 10 Humanitarian technology conference, the first R10 flagship conference to be held in Bangladesh section since its inception in 1993, where I served as the general Co-chair. Apart from regular technical papers, during R10 HTC 2017, I led to organize 9 parallel tracks for WIE, YP, Educational, entrepreneurship, and industrial activities to inspire humanitarian technologies.

I am a founder member, IEEE EMBS Bangladesh Chapter, Founding organizer, IEEE SPS Bangladesh Chapter and Founding Co-organizer, IEEE RAS Bangladesh Chapter. She is a member, IEEE PES, IEEE IAS and IEEE SSIT. I have driven a membership development agenda for IEEE IAS and IEEE SSIT, the petitions of these two societies are submitted. Thus I am continuously contributing for the enhanced engagement of members in technical societies in IEEE Bangladesh section and around the globe through her activities planned under IEEE WIE workshops subcommittee and IEEE SIGHT Communications subcommittee.

I have facilitated the development of programs and activities that promoted the entry into and retention of women in engineering programs;

Arrangement of seminars by international scholars and by myself has presented role models in front of young WIE members in Bangladesh created a vast interest among their minds for engaging themselves in the progress of the modern research.

The activities of myself provided a unique research environment for the women in engineering education and profession across the globe to exchange their engineering knowledge, experience and research exposure.

Through my moderations and deliveries in panel discussion in international conferences and WIE congress, she inspired, engaged, and encouraged young women engineers for properly shaping the innovative scientific and technological ideas hidden inside themselves.

My research presentations and outcomes at international conferences are really motivational and inspiring for empowering the women scientists from the underdeveloped countries.

My activities are designed to foster technological skills of the WIE members and to create a far reaching impact on the technical society around me in Bangladesh.

I have administered programs to mentor women in junior, high schools, company/industry and encouraged graduate students for higher studies abroad (USA, Canada, Australia, and Japan). She has promoted IEEE member grade advancement for women;

I have advocated women in leadership roles in IEEE governance and career advancement for women in the profession;

My outreach program "Go Engineering Girl" campaign helped the parents to understand that engineering offers exciting careers for young females.

IEEE positions held chronologically (global and local):

I. Global

IA. COMMITTEES/BOARDS:

2017 Communications Chair, IEEE SIGHT steering Committee,

2017 Chair, IEEE WIE Workshops Subcommittee

2017 Member, IEEE SSIT WIE & SIT Subcommittees,

2017 IEEE PES WiP R10 Regional representative

2016 Member, Special Events Subcommittee, IEEE WIE

2016 Member, Women in Leadership Collaboratec Community Subcommittees, IEEE WIE

IB. REGIONS:

2017 Member, R 10 Committees (WIE, HTA, Education)

2016 R10 WIE Coordinator

Member, R10 50th years celebrations adhoc committee 2016

Member, R10 WIE subcommittee, 2015

R10 WIE volunteer committee Representative (2015) ,

R10 WIE Webmaster (2014-15)

II. Local

IIA. SECTIONS/CHAPTERS: BDS (Bangladesh Section)

Vice Chair (Activity), IEEE BDS, 2017,

Chair, WIE BD AG, 2011-2015,

Chair, BDS Membership Development, 2012-2013

Coordinator, BDS SIGHT FLASH, 2014-2017,

Advisor, WIE BD AG, 2016-2017

IIB. STUDENT BRANCHES:

Advisor, IEEE BUET SB WIE AG, 2016-2017

IIC. SOCIETY:

Founder member, IEEE EMBS Bangladesh Chapter

Founding organizer, IEEE SPS Bangladesh Chapter

Founding Co-organizer, IEEE RAS Bangladesh Chapter

Member, IEEE PES, IEEE IAS, IEEE SSIT

IID. CONFERENCES:

General Co-Chair, IEEE R10 HTC 2017 and IEEE WIECON-ECE 2017,

General Chair, IEEE WIECON-ECE 2016

Founder and TPC Chair, IEEE WIECON-ECE 2015,

Publicity Co-chair, MMM' 2018,

Publication Chair, ICECE 2014

TPC Member of ISCAS, TENCON, ICECE, IFOST, Meditek

Organizing Committee Member, ICECE 2002, 2010, 2012, 2014

OTHER:

Jury, IEEE R10 AIYHUM 2017,

International Coordinator, Humanitarian technology initiative, IEEE WIE Summit Sri Lanka 2017

International pilot coordinator for ss12 2017, ss12 16 and ss12 2013 in India,

Chair, WIE track, IEEE ANZSCON 2017, Sydney, Australia

Chair, WIE panel, ISTAS 2017, Sydney, Australia

Resource person, Industry-Academia Conclave 2017, India

Co-Chair, IEEE SMC 2017 WIE Workshop, Canada

Co-Chair and Program Chair, IEEE WIE Global Summit 2016, Bangalore, India

Program Chair, WIE Track IEEE R10 SYWL congress 2016, Bangalore, India

IAC member, WIE international Pune summit 2016, Pune, India

Program Chair, 2016 TENSYP WIE TRACK, Bali, Indonesia

Program Chair, 2016 TENCON WIE Special Session, Singapore

Program Chair, 2016 R10 HTC WIE track,
Program Committee member, IEEE WIE Chennai ILS 2015,
Jury coordination committee Member, IEEE R10 AIYHUM 2015

Awards received from IEEE (global and local):

Individual Awards

- 2016 IEEE MGA Leadership Award

Citation: For leadership in engineering and technology driven innovative IEEE Women in Engineering activities for enhanced membership development and engagement in Region 10 and across the globe

- 2015 WIE Inspiring Member Award (global IEEE WIE award).
- 2013 IEEE Region 10 WIE Professional Volunteer award.

Group Awards Under the Leadership of Dr. Shahnaz

- 2017 WIE Affinity group of the year award (global WIE)
- 2015 WIE Affinity group of the year award-honorable mention-Bangladesh Section WIE (global WIE award).
- 2016 R10 WIE Affinity group of the year award for the activities in 2015

Other Awards:

1. Supervisor of 5th rank winning team in 2015 IEEE Signal Processing Cup (SP Cup) Competition on Heart Rate Monitoring During Physical Exercise Using Wrist-Type Photoplethysmographic (PPG) Signals.
2. Winner of IEEE R10 WIE Support Fund, 2015
3. Winner of Top Ten Best Paper Award in the Student Paper Contest of the IEEE International Midwest Symposium on Circuits and Systems (MWSCAS14), Texas, USA, 2014
4. Winner of IEEE Region 10 (R10-Asia Pacific) SIGHT Support Fund 2014
5. Winner of IEEE R10 WIE Support Fund, 2013
6. Winner of Best Poster of Appearance, IEEE Student/GOLD/WIE Congress, Hyderabad, India, 2013
7. Winner of the Best Poster Award in the 1st IEEE WIE AG BD Research Presentation, Bangladesh, 2011.
8. Winner of the First Prize in Communication Group in the 1st IEEE WIE AG BD Research Presentation, Bangladesh, 2011.
9. Winner of Best Student Paper Award in the IEEE International Conference on Neural Networks & Signal Processing (ICNNSP 2008), Zhenjiang, China, 2008.
10. Winner of Top Ten Best Paper Award in the Student Paper Contest of the IEEE International Midwest Symposium on Circuits and Systems (MWSCAS 2008), Tennessee, USA, 2008.

Experience in IEEE Bangladesh Section in Executive Committee, Affinity Groups, Societies chapters, Student Branches (year and positions):

Membership Development Coordinator, IEEE BDS ExeCom, 2012-2013

IEEE BDS Affinity Group:

Chair, WIE BD AG, 2011-2015,

Advisor, WIE BD AG, 2016-2017

Coordinator, BDS SIGHT FLASH, 2014-2017,

STUDENT BRANCHES:

Advisor, IEEE BUET SB WIE AG, 2016-2017

SOCIETY:

Founder member, IEEE EMBS Bangladesh Chapter

Founding organizer, IEEE SPS Bangladesh Chapter

Founding Co-organizer, IEEE RAS Bangladesh Chapter

Member, IEEE PES, IEEE IAS, IEEE SSIT

CONFERENCES:

General Co-Chair, IEEE R10 HTC 2017

General Co-Chair, IEEE WIECON-ECE 2017

General Chair, IEEE WIECON-ECE 2016

Founder and TPC Chair, IEEE WIECON-ECE 2015,

Publication Chair, ICECE 2014

TPC Member of ICECE, IFOST, Meditek

Organizing Committee Member, ICECE 2002, 2010, 2012, 2014