

# Region 10 IEEE China Section Report

*\* Please use the following format to prepare and submit your Section's annual report to Region 10.*

*\* Please note that the annual reports are used to evaluate the outstanding Sections in the region and reports submitted after the announced due date will not be considered for the award. Please do not include more than 3 photographs and preferably put them on additional pages attached to the report (please delete this paragraph in your report).*

*\* Please try to limit your Section's annual report not more than 15 pages.*

## **PART A - SECTION SUMMARY**

### **A.1 Executive Summary – (Please follow the format given below)**

- Section Executive Committee Member List
  - Chair: Yinghong Wen
  - Executive vice chair: Mengqi Zhou
  - Vice chairs:
    - Qiuqi Ruan
    - Jianguo Huang
    - Qun Wu
    - Chao Wang
  - Secretary and Treasurer: Gaoyun An
  - Vice Secretary: Wei Jiang
  - Executive vice chair:
    - Qi Huang
    - Xiaohu You
    - Guilin Zheng
    - Xiaohong Guan
    - Yinfu Hu
  - Executive Committee Members
    - Yinghong Wen
    - Mengqi Zhou
    - Qiuqi Ruan
    - Jianguo Huang
    - Qun Wu
    - Wenjun Zhang
    - Chao Wang
    - Guilin Zheng
    - Jinjun Feng
    - Guohui Yang
    - Tao Zhang
    - Chuan Zhang
    - Wenzheng Li
    - Gaoyun An
    - Debiao Lu
    - Wei Jiang
- Section Highlights
  - 2021.12.5 IEEE China Council Annual Meeting was held online. The Vice president of IEEE China Council, Prof. Mengqi Zhou, summarized the activities in 2021, and introduced the development requirement from Ministry of Industry and Information Technology of China. Followed by the Chair of IEEE China Council, Prof. Yinghong Wen, introduced the elected Council Committee member, and discussed the membership affairs with attending committee members.

- 2021.11.19 Council chair Prof. Yinghong Wen participated in 2021 IEEE WIE Beijing leadership summit held online. The other participants were Mr. Ning Hua, Senior Director of IEEE Asia Operations, Prof. Huimin Ma, Vice President of CSIG/BSIG, Ms. Emi Yano, Chair of IEEE R10 Women in Engineering Committee, Prof. Ruomei Li, General Chair of IEEE PES WIP President, Prof. Toshio Fukuda, pre IEEE president, Ms Jill Tang, Co-Founder of Ladis Who Tech, etc.
- Major Chapter Activities
  - N/A, all the chapter activities are hosted by each sections.
- Major Student and Affinity Group Activities
  - The thesis achievement sharing meeting on Oct. 2021. Thesis awarded students shared their experiences.
  - Volunteer work of electric research competition on Sep. 2021. Ten students participate in the volunteer work of national competition.
  - Summer internship of telecommunication graduate student from June to Oct 2020. 10 students have a short internship at enterprise.
- Awards
  - N/A

## **A.2 Financial Report – (Please follow the format given below)**

- Summary (as per submitted on NetSuite)
  - N/A, the IEEE China council has no membership fees and thus no financial report is necessary
- Any other financial activities
  - N/A

## **PART B - ORGANIZATIONAL ACTIVITIES**

### **B.1 Membership Development Activities**

- Total number of active members in the past 3 years.
  - N/A, no liability for member development
- Summary and evidence of work done to improve the value of membership, which leads to retention and growth of members
  - N/A, no liability for member development

### **B.2 Chapter Activities**

- Total number of Chapters in the Section
  - N/A, chapter activities are applicable to each sections instead of China council.
- Number of Chapters formed in the current year
  - N/A, chapter activities are applicable to each sections instead of China council.
- Number of active Chapters (Chapters who have reported required number of meetings during the year)
  - N/A, chapter activities are applicable to each sections instead of China council.
- Summary of Chapter activities (Chapter wise with attachment table/information)
  - N/A, chapter activities are applicable to each sections instead of China council.

### **B.3 Professional and Continuing Education Activities**

Summary of continuing Educational activities including conferences, technical activities, training courses, and distinguished lecture programs with attachment table / information

#### **The 3<sup>rd</sup> IEEE WIE Beijing Leadership Summit (IEEE WIE BLS2021)**

IEEE China Council was joint holding the 3<sup>rd</sup> IEEE WIE Beijing Leadership Summit (IEEE WIE BLS2021) online on 11<sup>th</sup> Nov, 2021. The topic of this summit is “Reshape WIE Network for sustainable

development”. This summit was open to individuals who are interested in the topics, more than 30 women technicians/professors/educations were invited to report at the summit.

Prof. Yinghong Wen, Prof. Huimin Ma, Prof. Ruomei Li, and Ms. Ning Hua was reported at the opening ceremony, Prof. Emi Yano and Prof. Toshio Fukuda were invited to give the keynote speaks. Six panel discussions were organized in the summit, which were “Perspectives for Cross-organization Cooperation for WIE”, “Leadership Development learn from ShePower”, “Technology, Social Responsibility, Women”, “WIE in Engineering Education”, “Female Scientists Feature in Power Energy Green and Low-carbon Transformation Development”, “Tech-enabled SD Future for digital Economy”. One workshop of “Open discussion for the Impact of IEEE Standard, from the WIE perspectives”.

### **2021 IEEE International Conference on Electromagnetics in Advance Applications (IEEE ICEAA)**

The 2021 IEEE International Conference on Electromagnetics in Advance Applications (IEEE ICEAA) was held on 9th -13th Aug, 2021. Considering the situation of COVID-19 pandemic, ICEAA 2021 was held in hybrid mode. Attendees have two choices to participate the conference: 1) on-site or 2) on-line through video-meeting software. Outstanding Young Scientist Award, Best Student Paper Award and Best Paper Award was presented at the conference banquet.

The Chair of IEEE China Council, Prof. Yinghong Wen, attended the conference and held a technical session “EMC and Related Technologies in Intelligent Transportation Systems”. 5 technical papers were submitted from the members of IEEE China Council: “DC arc Fault signatures analysis based on improved bilinear time-frequency representation” from Ms. Xing lu, “Crowdsourced GNSS satellite SNR in degraded environments for dependability improvement” from Mr. Sun Hao, “Comprehensive probability map-matching validation method for digital track map generation” from Ms. Liu yumeng, “Research on electromagnetic emission characteristics of vacuum tube magnetic levitation system” from Ms. Wang Yan, “3D digital track map-based GNSS NLOS signal analytical identification method” from Ms. Yu Zhang.

## **B.4 Students Activities**

- Total number of Student Branches in the Section
  - N/A, student branches are also included in each section.
- Number of Student Branches formed in the current year
  - N/A, student branches are also included in each section.
- Section level student activities (student congress, paper and other contests, awards etc)
  - N/A, student branches are also included in each section.
- Number of active Student Branches (Student Branches who have reported required number of meetings during the year)
  - N/A, student branches are also included in each section.
- Summary of Student Branch activities (Student Branch wise with attachment table/information)
  - The thesis achievement sharing meeting on Oct. 2021. Thesis awarded students shared their experiences.
  - Volunteer work of electric research competition on Sep. 2021. Ten students participate in the volunteer work of national competition.
  - Summer internship of telecommunication graduate student from June to Oct 2020. 10 students have a short internship at enterprise.

## **B.5 Affinity Group Activities**

- Young Professional (YP)
  - N/A

- Women In Engineering (WIE)
  - As an IEEE China Council Chair, Prof. Yinghong Wen participated in 2021 IEEE WIE Beijing leadership summit held online. The other participants were Mr. Ning Hua, Senior Director of IEEE Asia Operations, Prof. Huimin Ma, Vice President of CSIG/BSIG, Ms. Emi Yano, Chair of IEEE R10 Women in Engineering Committee, Prof. Ruomei Li, General Chair of IEEE PES WIP President, Prof. Toshio Fukuda, pre IEEE president, Ms Jill Tang, Co-Founder of Ladis Who Tech, etc. In the summit, Prof. Yinghong Wen gave a welcome address. The topic of this summit is “Reshape WIE Network for sustainable development”. This summit was open to individuals who are interested in the topics, more than 30 women technicians/professors/educations were invited to report at the summit.
- Life Member (LM)
  - N/A

## **B.6 Awards & Recognition Activities**

- Award constituted by the Section
  - N/A
- Please list all Awards and Recognitions received by the Section, and members in the Section, from R 10 and IEEE HQ during the year
  - N/A

## **B.7 Communication Activities (Newsletter, Home Page, E-mail etc.)**

- Newsletter (name and number of issues in the year)
  - N/A
- Home Page of the Section (give the URL and how often it is updated)
  - [http://www.ieee-beijing.org/page\\_en.asp?id=219](http://www.ieee-beijing.org/page_en.asp?id=219)
- Other means of contacts with Section members including social media
  - E-mail / Tencent Meeting

## **B.8 Industry Relations**

- Membership growth and retention
  - N/A
- Activities for/with industrial members
  - Visit to the China Railway Signal and Communication group (CRSC), members of the IEEE China council visited CRSC for information exchange between student research request, collaborative research possibilities and university company relations.

## **B.9 Humanitarian Technology Activities**

- Humanitarian Technology related activities supported by the Section including collaboration with other OUs.
  - N/A
- SIGHT Activities
  - N/A

## **B.10 Community Activities**

- IEEE Social activities (Family day, IEEE day, Engineers Week)”
  - N/A

## **PART C - OTHERS**

### **C.1 Special Events**

- Please briefly describe the importance of special events and the outcomes achieved
  - N/A
- Funding secured from the IEEE and external sources including sponsorships
  - N/A

### **C.2 Relationship with National and International Societies and Non-Government Organizations (NGO)**

- Nature of relationship and details of any formal agreement signed
  - N/A
- Details of joint activities
  - Joint workshop with IRSE (Institute of Railway Signalling Engineers) for joint workshop between Aalto University and Beijing Jiaotong University
- Benefit to IEEE members (for example discounts, access to technical information etc.)
  - With the IRSE web portal, the access to periodically published newsletters, journal can be access on relevant topics.
- Benefit to Section (for example help in membership development, venue facilities, cost saving etc.)
  - The connection between IEEE for technical development research and applications can be bridged with IRSE for railway signalling industry requirements.

### **C.3 Collaboration with other IEEE Sections**

- Support extended to neighboring Sections
  - N/A, no liability as the IEEE China council
- Joint activities with any other Section
  - N/A, no liability as the IEEE China council

### **C.4 Support extended to Sub-sections & Society Chapters within the Section**

- Support extended for organising technical, educational and professional activities
  - China Council has no subsection, Student and Affinity Group, but support and participate in the following chapters and branches:
    - IEEE Education Beijing Chapter;
    - IEEE WIE Beijing Affinity Group;
    - IEEE Student Branch of China.
- Joint activities for membership development
  - N/A
- Support extended for the formation of a Sub-section or transition of a Sub-section into a full Section
  - N/A

### **C.5 Best Practices of your Section (which you would like to share with other Sections for the benefits of members)**

### **C.6 Problems anticipated and suggestions for solutions, if any**

## **PART D - GOALS AND PLANS**

### **D.1 Continuation of project/activity in progress and their implementation plans**

- IEEE China Council will continue support IEEE WIE Beijing Affinity group activities. All the relevant activities to promote the IEEE leading role in academy and industry will still be the primary goal for the council mission.
- Annual general meeting, main administrative meeting, China Association for Science and Technology are held periodically to keep the sustainability of the council. Main ongoing events and plans are discussed internally and in certain cases jointly with other associations and organizations.

### **D.2 Goals and Future Plans**

- IEEE China Council will continue hold annual meetings internally and externally with relevant institutes and organizations (IRSE etc.)
- Workshops as WIE Beijing Affinity annually
- Workshops for student branches to provide a platform of information exchange for students in China

### **D.3 Any innovative ideas to make IEEE more creative and value added for sustaining the membership retention and recruitment goals.**

- With the pandemic situation, more convenient ways to communicate are possible. More activities and online exchange can be arranged to promote IEEE and involving more possible members for students and more.

### **D.4 Business Plan for Sustainable Growth and Financial Stability.**

- N/A