

IEEE Sendai Section Annual Report 2018

PART A - SECTION SUMMARY

A.1 Executive Summary

- **Section Highlights**
 - 3 members were newly elevated to 2018 Fellow in Sendai Section.
 - Hideo Ohno (Tohoku University)
 - Seiji Samukawa (Tohoku University)
 - Shuji Tanaka (Tohoku University)
 - The following technical events were held.
 - 2 lecture meetings were sponsored
 - New Fellow Lecture meeting [13th April, 2018]
 - Lecture Meeting “Expectations for sustainable fisheries in data-driven society” [7th December, 2017]
 - 1 technical meeting was cooperated.
 - Co-sponsored “2018 Tohoku-Section Joint Convention of Institute of Electrical and Engineers, Japan (TSJC)” at Iwate University. [6th -7th September, 2018]
 - The following Administrative Meetings were held.
 - Annual General Meeting
 - 2 Section Board Meetings
 - 4 Administrative Officers Meetings
 - Activities for students
 - Seminar for improving writing skills on English on TSJC
 - Student Session on TSJC
 - Sendai Section Student Awards 2018 ceremony
- **Major Affinity Group Activities**
 - Sendai Section WIE Affinity Group (Sendai WIE) organized 3 events as follows;
 - Sendai WIE 1st Anniversary Event “Female engineers and researchers in the field of technology - Research and Carrier model -” [14th April, 2018]
 - Sendai WIE Special Session “The charm of research that women researchers can convey” [6th September, 2018]
 - Sendai WIE Session on IEEE WIE International Leadership Summit 2018 Tokyo
 - International Collaboration -"Experience of Foreign Born Female Researchers in Japan” [10th November, 2018]
- **Awards**
 - Sendai Section Student Awards 2018
- **Section Officers [2018-2019]**
 - Chair: Michitaka Kameyama (Ishinomaki Senshu University)
 - Past Chair: Masataka Nakazawa (Tohoku University)
 - Vice-Chair: Hirohito Yamada (Tohoku University)
 - Secretary: Noriharu Suematsu (Tohoku University)
 - Treasurer: Tadahiro Yonezawa (NTTEAST) / until 13th December, 2018
Hitoshi Kikuchi (NTTEAST-TOHOKU) / from 13th December, 2018
- **Section Executive Committee Members [2018-2019]**
 - Basabi Chakraborty (Iwate Prefectural University)
 - Naofumi Homma (Tohoku University)
 - Naoki Honma (Iwate University)
 - Hiroyasu Ishikawa (Nihon University)
 - Koji Kotani (Akita Prefectural University)
 - Seiji Kumagai (Akita University)
 - Hiroyuki Masayanagi (NEC Communication Systems, Ltd.)
 - Shin Masuda (Advantest Laboratories Ltd.)
 - Fumihito Sato (Tohoku Gakuin University)
 - Takashi Uchino (Tohoku Institute of Technology)

Tetsuya Yuasa (Yamagata University)
 Tsutomu Zeniya (Hirosaki University)
 Qiangfu ZHAO (The University of Aizu)

- **Section Standing Committee**

- Student Activities Committee (Chair: Naofumi Homma)
- Membership Development Committee (Chair: Noriharu Suematsu)
- Chapter Promotion Committee (Chair: Hirohito Yamada)
- Technical Program Committee (Chair: Hirohito Yamada)

A.2 Financial Report

The Sendai Section's finances are in good condition.

Financial summary of 2018 FY is as follows;

(All in JPY)

Income/Expense	Item	Budget	Actual
Income	IEEE HQ & Society	1,320,000	1,341,603
	Section Rebate (including Chapter Rebate)	660,000	665,113
	Support from HQ / R10	0	56,205
	Support from Japan Council	140,000	92,861
	Interest	100	18
	Total of Income	2,120,100	2,155,800
Expense	Support to JC	1,147,000	1,163,831
	Support to Chapter	121,415	121,614
	Meeting & Social Evens	300,000	307,915
	Student Activities	250,000	319,904
	Awards	160,000	108,872
	Travel	120,000	131,503
	Management & General Expense	590,000	77,481
	Other	184,000	0
	Total of Expense	2,872,415	2,231,120
Balance of year end of 2017		1,815,945	1,815,945
Balance of year end of 2018		1,063,630	1,740,625

PART B - ORGANIZATIONAL ACTIVITIES

B.1 Membership Development Activities

Membership Development Committee nominated and supported to upgrade to Senior Member.

- **3 members were newly elevated to Senior Member** in Sendai Section.
- **3 members were newly elevated to Fellow** in Sendai Section.
 - Hideo Ohno (Tohoku University)
for contributions to materials and device design for spintronics
 - Seiji Samukawa (Tohoku University)
for contributions to damage-free plasma processing for nano-device manufacturing
 - Shuji Tanaka (Tohoku University)
for contributions to micro-electromechanical systems for acoustic wave devices, physical sensors, and power generation
- Total number of active members in the past 3 each years is 705(2018), 708(2017), 711(2016).
- Number of membership by grade the end of 2018 is as follows;

Grade	Members
Fellow	32
Senior Member	66
Member	477
Associate Member	16
Graduate School Member	107
Student Member	7
Total	705

B.2 Chapter Activities

Chapter Promotion Committee supported Chapters activities.

- The following 4 Chapters are active and have good activities.
 - **SP01 Sendai Chapter** held 4 technical meetings
 - **COM19 Sendai Chapter** held 9 technical meetings
 - **EMC27 Sendai Chapter** held 13 technical meetings
 - **MAG33 Sendai/Sapporo Joint Sections Chapter** held 7 technical meetings

B.3 Professional and Continuing Education Activities

- **Technical Meetings**

Technical Program Committee arranged following technical meeting on section level.

- Sponsored

- New Fellow Lecture Meeting [13th April, 2018]

We held Lecture meeting by newly elevated two Fellows in commemoration of their upgrade.

- Lecturer 1: Prof. Seiji Samukawa (Tohoku University)
- Lecturer 2: Prof. Shuji Tanaka (Tohoku University)

Venue: RIEC, Tohoku University

Attendance: 43

- Special Lecture Meeting [13th December, 2018]

Motivated by the experience of The East Japan Great Earthquake Disaster, we have organized a series of the lecture meetings on “technologies covered by IEEE can contribute to disaster recovery, prevention, safety measures and regional industrial development” since 2011. In 2018, we held the lecture meeting as theme about “Revitalization of fisheries industry by ICT”.



- “Expectations for sustainable fisheries in data-driven society”
Prof. Masaaki Wada (Future University Hakodate)

Venue: RIEC, Tohoku University

Attendance: 52

- Cooperated

- Lecture Meeting [31th October, 2018]

Lecturer: Prof. Masanobu Hashimoto (Osaka University)

Venue: Hirosaki University

Attendance: 51

- **Educational Activities**

Student Activities Committee arranged a seminar for students on TSJC.

- Seminar for improving writing skills in English [7th September, 2018]

Venue: Iwate University

Attendance: 64

B.4 Students Activities

- Two Student Branches are active in Sendai Section.

- Tohoku University Student Branch

- Attended Student Branch Leadership Training Workshop at Tokyo Denki University [7th-8th August, 2018]
- Attended IEEE R10 SYWL Congress 2018 in Bali, Indonesia [24th-26th August]
- Joined as the judge on Student Session

- The University of Aizu Student Branch

- Joined as the judge on Student Session

- Section level student activities

- Student Session on TSJC (40 papers)

- Seminar for improving writing skills on TSJC (attendance:64)

- Sendai Section Student Awards ceremony

- 4 students were received The Best Paper Prize
- 5 students were received The Encouragement Prize

B.5 Affinity Group Activities

- **Sendai WIE (Sendai Section Women in Engineering Affinity Group)**

- Sendai WIE 1st Anniversary Event “Women engineers and researchers in the field of technology - Research and Career model -” [14th April, 2018]

At this event, four engineers and researchers presented their individual research and career model and discussion with audience was actively done.



Lecturer:

- What is required for software development now: technology and diversity
Dr. Natsuko Noda (IEEE JC WIE Chair, Shibaura Institute of Technology)
- Sustainable Career life
Ms. Huiling JIANG (NTT DOCOMO, INC.)
- Past, Present and Future of Female Engineers: A case in a company
Ms. Aya Nakamura (Panasonic System Networks R&D Lab. Co., Ltd.)
- Career Education as a part of gender equality
Prof. Kyouji Komatsu (National Institute of Technology, Sendai College)

Venue: Sakura Hall, Tohoku University

Attendance: 17

- Sendai WIE Special Session “The charm of research that female researchers can convey” [6th September, 2018]

This session was the first of its kind organized by Sendai WIE on 2018 Tohoku-Section Joint Convention of Institutes of Electrical and Information Engineers. At this session, after introduction of Sendai WIE activities by Prof. Basabi Chakraborty, Chair of Sendai WIE, technical talks were presented by 6 researchers (including 4 students) and active discussion were held.

Venue: Iwate University

Attendance: 13

- Cooperated 2018 Asia-Pacific Microwave Conference (APMC) WIE/WIM Session [7th November, 2018]

The diverse and inspiring panels of experts from the community of microwaves were invited and discussed topics on "Women's Excellent Talent in Engineering". This event was organized by Prof. Qiaowei Yuan, Vice-Chair of Sendai WIE.

Venue: Kyoto International Conference Center, Kyoto

Attendance: 20

- Co-sponsored Sendai WIE Session on IEEE WIE International Leadership Summit 2018 Tokyo - International Collaboration - “Experience of Foreign born Female researchers in Japan” [10th November, 2018]

The panel discussion with three foreign-born panelists having career in Japan and Sendai WIE chair as moderator was organized during IEEE WIE ILS in Tokyo.

Venue: Shibaura Institute of Technology, Tokyo

Attendance: 25

- 6 times Sendai WIE administrative meeting were held in 2018.

B.6 Awards & Recognition Activities

- **Sendai Section Student Awards 2018**

- The Best Paper Prize
 - Yuki Kunishima (Tohoku University)
 - Kagome Naya (The University of Aizu)
 - Keita Ishikawa (Tohoku University)
 - Hayato Abe (Tohoku University)
- The Encouragement Prize
 - Yoshiki Maruyama (Tohoku University)
 - AHMAD-SHAHIR BIN AHMAD-NOR (Tohoku University)
 - Xi Huang (Tohoku University)
 - Hidetoshi Ito (Iwate Prefectural University)



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

- Home Page of the Section and Chapters
 - Sendai Section
<http://www.ecei.tohoku.ac.jp/ieee-sendai/>
 - Chapters
 - SP01
<http://www.sps-sendai.org/>
 - EMC27
<http://www.topic.ad.jp/emc-sendai/>
 - COM19
https://webinabox.vtools.ieee.org/wibp_home/index/CH10605
 - MAG33
<http://www.topic.ad.jp/mag-sendai/>
 - Affinity Group
 - Sendai WIE AG
<http://www.ecei.tohoku.ac.jp/ieee-sendai/sendaiwie/>
- Sendai Section provided 12 times of information of meetings, seminar, and other events for section members via mailing list.

PART C - OTHERS

C.1 Special Events

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

Sendai Section is maintaining a good relationship with Tohoku Section of the following 7 National Societies.

- The Acoustical Society of Japan (ASJ)
- The Institute of Electrical Engineers of Japan (IEEJ)
- The Illuminating Engineering Institute of Japan (IEIJ)
- The Institute of Electronics, Information and Communication Engineers (IEICE)
- The Institute of Electrical Installation Engineers of Japan (IEIEJ)
- Information Processing Society of Japan (IPSJ)
- The Institute of Image Information and Television Engineers of Japan (ITE)

C3. Collaboration with other IEEE Sections

Sendai Section has been continuing to cooperate with other Sections by attending Japan Council ExCom Meeting, R10 Meeting and other opportunities.

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

Chapter Promotion Committee supported Chapter activities through a year.

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

Motivated by the experience of The East Japan Great Earthquake Disaster, we have been organizing a series of the lecture meetings on “technologies covered by IEEE can contribute to disaster recovery, prevention, safety measures and regional industrial development” since 2011.

PART D - GOALS AND PLANS

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

- Organizing Metro Area Workshop 2019 in Sendai
- Forming Life Member Affinity Group and Young Professional Affinity Group
- Technical Lecture Meetings
- Activities for students
 - Student Session on TSJC
 - Seminar for effective English Presentation
 - Student Awards 2019
- Student Branch activities
- Co-sponsored 2019 Tohoku-Section Joint Convention of Institute of Electrical and Engineers, Japan (TSJC)
- Promotion to elevation to Senior Member, Fellow
- Growth of number of Section members
- Support for Chapter activities
- Support for Student Branches activities
- Annual general meeting
- Administrative meetings
 - Section Board Meetings
 - Administrative Officers Meetings

D.2 Goals and Future Plans

- Planning for section unique activities by standing committees
- Organizing events for improving skill of members
- Encouragement students
- Promotion to develop Senior Member and Fellow
- Continuously support for chapter's activities
- Be more useful for section members

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

We will organize activities to contribute for regional industrial development in Tohoku in the future.

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

We will continue to provide more beneficial activities for section members with keeping good financial condition.