

Region 10 Shin-etsu Section Report

PART A - SECTION SUMMARY

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

- Section Executive Committee Member List
 - ✓ Chair: Toshiro Sato, Shinshu University
 - ✓ Vice-chair: Takashi Yukawa, Nagaoka University of Technology
 - ✓ Secretary: Pauline N. Kawamoto, Shinshu University
 - ✓ Treasurer: Toshihiko Takahashi, Niigata University
 - ✓ Past-chair: Keizo Kato, Niigata University
 - ✓ Membership Development Chair: Kenichi Itoh, Niigata Institute of Technology
 - ✓ Student Activities Chair: Takanori Miyoshi, Nagaoka University of Technology
 - ✓ Nominations Chair: Hernan Aguirre, Shinshu University
 - ✓ Technical Program Chair: Mamoru Iwaki, Niigata University
 - ✓ Tokyo/Shin-etsu Joint Section WiE liaison: Pauline N. Kawamoto, Shinshu University
 - ✓ Past-secretary: Minseok Kim, Niigata University
- Section Highlights
 - ✓ 4 board meetings
 - ✓ 3 IEEE sessions in coordination with IEICE and IEEJ where IEEE Shin-etsu Section and SSB presented various awards to 5 excellent students
 - ✓ 1 article contribution to Region 10 Connect newsletter
 - ✓ Recipient of Region 10 Section Incentive (Small Section) for activities in 11/2020-10/2021
- Major Events (International, National)
 - ✓ International Events
 - ◇ 2 co-sponsored conferences (OnCV&AI, ICFPE): 9/6-10, 9/27-10/1
 - ✓ Domestic Events
 - ◇ 4 board meetings: 5/27, 9/24, 9/25, 12/21
 - ◇ IEEE sessions: 2 oral and 1 poster sessions on 9/25, 12/3, 12/4



All events, meetings, IEEE oral/poster sessions, and awards ceremonies done online due to onsite gathering restrictions related to COVID-19 pandemic situation in 2021.

- Major Chapter Activities
Shin-etsu Section chapter (MAG-33): Organized and/or co-sponsored 5 technical meetings (1/20, 143 attendees; 3/4, 68 attendees; 6/24, 165 attendees; 8/25, 63 attendees; 11/25, 20 attendees) in 2021.
- Major Student and Affinity Group Activities
Shin-etsu SSB: The IEEE Shin-etsu Section Student Branch (SSB) was established in 2019 with a core of students and staff from Shinshu Univ., Nagaoka Univ. of Tech., and Niigata Univ. Because of the COVID-19 pandemic situation, the members did not visit campuses for membership development events in 2021, but held outreach events for students at each campus, 1 poster session (12/3), and board meetings online. They also attended IEEE online seminars and leadership training offered to the student branches.

Tokyo/Shin-etsu Joint Section WiE affinity group: The Tokyo/Shin-etsu Joint Section Women in Engineering (WiE) affinity group was established in 2020 and because of the COVID-19 pandemic situation, all meetings and events (International Women’s Day Online Coffee Break event 3/8, International Women in Engineering Day Online Coffee-Break 6/23, WIE 2021 Symposium 11/6) in 2021 were conducted online. The Shin-etsu WiE liaison also participated in the IEEE TOWERS event online to assist with judging and presenting the WiE award to an exceptional female presenter (11/13).
- Awards
 - ✓ Young Researcher Paper Awards to 3 students
 - ✓ Best Poster Presentation Awards to 2 students
 - ✓ Recipient of 2021 R10 Section Incentive (Small Section)

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

- Summary (as per submitted on NetSuite)
Our balance at the end of 2020 was 1,295,945 yen. Income for 2021 totalled 1,676,763 yen. Expenses in 2021 were 517,285 yen, resulting in a balance at the end of 2021 of 1,159,478 yen, which is about USD\$10,082 at an exchange rate of 115 yen/USD.
- Any other financial activities
No other activities.

PART B - ORGANIZATIONAL ACTIVITIES

B.1 Membership Development Activities

- Total number of active members in the past 3 years.

Grade	2/2022	2/2021	2/2020
Student Member	12	6	16
Senior Member	14	13	13
Member	160	166	170
Life Senior	2	1	1
Life Member	7	8	6
Life Fellow	2	2	3
Graduate Student Member	27	27	25
Fellow	2	2	2
Associate Member	3	5	9
Affiliate	5	7	7
Total	234	237	252

- Summary and evidence of work done to improve the value of membership, which leads to retention and growth of members

In order to increase membership, we offer awards to student members and encourage professional members to apply for higher membership status. From 2021, a memorial medal is awarded to every new

senior member. The executive committee members have worked closely with the section student branch board members to take advantage of the membership drive materials and novelty goods provided by IEEE at their outreach events.

B.2 Chapter Activities

- Total number of Chapters in the Section: 1
- Number of Chapters formed in the current year: 0
- Number of active Chapters (Chapters who have reported required number of meetings during the year): 1
- Summary of Chapter activities (Chapter wise with attachment table/information):

We have one chapter in our section. MAG-33 (Shin-etsu) chapter organized and/or co-sponsored the following technical meetings and lectures in 2021:

[Co-sponsor]

- ✓ Jan. 20: online workshop and lectures with IEEEJ looking at the role of magnetics in the innovation and collaborative research efforts in power electronics, online, 143 participants
- ✓ Mar. 4: on-site and online lectures with Nagano Techno Foundation, 68 participants
- ✓ Jun. 24-25: joint technical meeting with IEEEJ, online, 165 participants
- ✓ Aug. 25: online lectures with Nagano Techno Foundation, 63 participants
- ✓ Nov. 25: online lectures with Nagano Techno Foundation, 20 participants

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

B.4 Students Activities

- Total number of Student Branches in the Section: 1 Section Student Branch
- Number of Student Branches formed in the current year: 0
- Section level student activities (student congress, paper and other contests, awards etc):
 - Oral/poster sessions
 - SSB board meetings
- Number of active Student Branches (Student Branches who have reported required number of meetings during the year): 1
- Summary of Student Branch activities (Student Branch wise with attachment table/information):

The IEEE Shin-etsu Section Student Branch (SSB) composed of members from Shinshu Univ., Nagaoka Univ. of Tech., and Niigata Univ. was established in 2019 and is actively providing opportunities to exchange information not limited to research among the students and higher grade members and promote friendship within the local communities. Because of the COVID-19 pandemic situation, the members did not physically visit the campuses for membership development events in 2021, but held outreach events for students at each campus, 1 poster session (12/3), and all board meetings online. They also attended IEEE online seminars and leadership training offered to the student branches.

B.5 Affinity Group Activities

- Young Professional (YP)
- Women In Engineering (WIE)

The petition for the Tokyo/Shin-etsu Joint Section Women in Engineering (WiE) affinity group was filed and approved in 2020. Because of the continued COVID-19 pandemic situation in 2021, all meetings and events (3/8 International Women's Day Online Coffee Break event, 6/23 International Women in Engineering Day Online Coffee-Break, 11/6 WIE 2021 Symposium) were conducted online. The Shin-etsu WiE liaison also participated in the IEEE Transdisciplinary-Oriented Workshop for Emerging

Researchers (IEEE TOWERS) event online to assist with judging and presenting the WiE award to an exceptional female presenter (11/13).

- Life Member (LM)

B.6 Awards & Recognition Activities

- Award constituted by the Section

In the Shin-etsu Section, we presented 5 excellent paper/poster awards to students who presented their work at the IEEE Sessions held in conjunction with the IEICE Shin-Etsu Chapter Convention and the IEEEJ Tokyo Section Niigata Chapter Convention.

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

The Shin-etsu Section was recognized by Region 10 for its activities 11/2020 to 10/2021 and was a recipient of the 2021 R10 Section Incentive (Small Section).

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

- Newsletter (name and number of issues in the year)
- Home Page of the Section (give the URL and how often it is updated)
- Other means of contacts with Section members including social media

Our main method of communication with members in our section is via our homepage and eNotice announcements and mailings. The URL of the English version of the homepage is:

<https://www.ieee-jp.org/section/shin-etsu/index-e.html>

Our homepage is updated as quickly as possible when new information is available (typically every 1-2 months).

B.8 Industry Relations

- Membership growth and retention
- Activities for/with industrial members

We have no events targeting industrial members currently, but there are many industrial companies in the Shin-etsu regions and in the future, we plan to develop relations with these companies.

B.9 Humanitarian Technology Activities

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

We have no committee or activities for Humanitarian Technology at this time, but we will support them if they are formed in the future.

B.10 Community Activities

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

We have no annual IEEE social activities currently, but would like to combine medal ceremony events with social events in the future.

PART C - OTHERS

C.1 Special Events

- Please briefly describe the importance of special events and the outcomes achieved
- 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
- Details of joint activities
- Benefit to IEEE members (for example discounts, access to technical information etc.)
- Benefit to Section (for example help in membership development, venue facilities, cost saving etc.)

There are several Japanese professional societies such as the IEICE and IEEJ with which we co-sponsor and co-locate events. Since many people are members of both the IEEE and one or both of the IEICE and IEEJ groups, it is our policy to work in cooperation with these societies to promote engineering in the Shin-etsu region of Japan. To this end, we co-sponsor and co-organize many events.

C.3 Collaboration with other IEEE Sections

- Support extended to neighboring Sections
- Joint activities with any other Section

The Tokyo/Shin-etsu Women in Engineering (WiE) affinity group is a joint section effort. We have not coordinated other activities with other IEEE sections in this year.

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

- Support extended for organising technical, educational and professional activities
- Joint activities for membership development
- Support extended for the formation of a Sub-section or transition of a Sub-section into a full Section

We currently have no Sub-sections and no special support for society chapters within the section.

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

To encourage interactions between mixed grade members, the section board members and SSB board members work together on the judging of student awards at the annual IEEE sessions of our section.

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

None.

PART D - GOALS AND PLANS

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

In 2022, we will continue to provide awards as described above. Also, we will try to organize technical meetings at each university in the Shin-etsu region every year.

D.2 Goals and Future Plans

In the future, we will try to connect members to activate the section student branch, a Young Professionals branch, and the joint section WiE affinity group. The relatively small number of members in our section is a major obstacle, so we must consider how to increase our membership.

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

Plan IEEE sessions and events that will benefit students and connect them with our higher grade members to gain new members and sustain membership.

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

The Shin-etsu Section conducts its yearly activities within a financially stable budget plan using income from the annual Section Assessment and Section Rebate. The income and expenses for the section have been balanced for the past three years and we plan to continue the same style of budget planning in the coming year.