

Region 10 Shin-Etsu Section

PART A - SECTION SUMMARY

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

- Section Executive Committee Member List
 - ✓ Chair: Keizo Kato, Niigata University
 - ✓ Vice-chair: Toshiro Sato, Shinshu University
 - ✓ Secretary: Minseok Kim, Niigata University
 - ✓ Treasurer: Isao Nanbu, Nagaoka University of Technology
 - ✓ Past-chair: Kiyoshi Ohishi, Nagaoka University of Technology
 - ✓ Membership Development Chair: Kenichi Itoh, Niigata Institute of Technology
 - ✓ Student Activities Chair: Shogo Muramatsu, Niigata University
 - ✓ Nominations Chair: Masahiro Iwahashi, Nagaoka University of Technology
 - ✓ Technical Program Chair: Tadashi Tsubone, Nagaoka University of Technology
- Section Highlights
 - ✓ 3 board meetings
 - ✓ 2 open lectures
 - ✓ 3 IEEE session in coordination with IEICE, IEEJ and IEIE Korea where IEEE Shin-etsu section presented various awards to 9 excellent students.
- Major Events (International, National)
 - ✓ International Event: Joint Workshop of IEIE JB and IEEE Shin-etsu SSB (2019/12/12)

The Workshop on Electronics and Information Engineering (WEIE) sponsored by Japan Branch of the Institutes of Electronics and Information Engineers (IEIE JB), Korea is annually held aiming at promoting research and collaboration among members of IEIE JB. The topics include Brain Machine Interface, Mobile Communication Technology, Service Computing and Big Data, but are not limited to them. In this year, the WEIE was co-organized by the IEIE JB and IEEE Shin-etsu Section Student Branch (SSB) as a joint workshop. The IEEE Shin-etsu SSB composed by Shinshu Univ., Nagaoka Univ. Tech., and Niigata Univ officially started in Jan. 2019, and is actively providing opportunities to exchange various information not limited to research and promote friendship within local community. The students attending this event enjoyed two invited talks and free discussion through poster presentation about his/her recent results.
 - ✓ National Events
 - ◇ 3 board meetings: 5/24, 9/28, 10/26
 - ◇ IEEE sessions: 3 oral and 2 poster sessions on 9/28 and 10/26
 - ◇ 2 open lectures: 8/30, 12/12



< IEEE session award ceremony (2019/9/28) (left), Joint Workshop of IEIE JB and IEEE Shin-etsu SSB (2019/12/12) (middle) and Open lecture (2019/12/12) >

- Major Chapter Activities

Shin-etsu section chapter (MAG-33) organized and/or co-sponsored the technical meetings and lectures in 2019.
- Major Student and Affinity Group Activities

The IEEE Shin-etsu SSB composed by Shinshu Univ., Nagaoka Univ. Tech., and Niigata Univ officially started in Jan. 2019, and is actively providing opportunities to exchange various information not limited

to research and promote friendship within local community. On Dec. 12, the joint workshop was co-organized by the Korea IEIE Japan Branch and IEEE Shin-etsu Section Student Branch (SSB). The students attending this event enjoyed two invited talks and free discussion through poster presentation about his/her recent results.

- Awards
 - ✓ Young Researcher Paper Awards to 3 students
 - ✓ Young Researcher Presentation Awards to 3 students
 - ✓ Section Student Branch Awards to 1 student
 - ✓ Best Poster Presentation Awards to 2 students

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

- Summary (as per submitted on NetSuite)
Our balance at the end of 2018 was 836,245 yen. Income for 2019 totaled 879,002 yen. Expenses in 2019 were 774,010 yen, resulting in a balance at the end of 2019 of 941,237 yen, which is about US\$8,567 at an exchange rate of 109 yen/\$.
- Any other financial activities
No activities.

PART B - ORGANIZATIONAL ACTIVITIES

B.1 Membership Development Activities

- Total number of active members in the past 3 years.
Fellows 2, Senior Members 13, Members 170, Graduate Student Members 25, Associate Members 9, Student Members 16, Life Fellow 3, Life Members 6, Life Seniors 1, Affiliate 7.
[252 in total]
- 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. We also encourage members to apply for higher membership status. To this end, some of our executive committee members applied and were accepted for Senior Member status. These members can encourage other members to apply by outlining the application procedure and helping with the required documents.

B.2 Chapter Activities

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

We have one chapter in our section. Shin-etsu section chapter (MAG-33) organized and/or co-sponsored the technical meetings and lectures in 2019:

[Co-sponsor]

- ✓ Feb. 15: Student research presentation event with Tokai Chapter in IEE Japan (sponsor), 11 presentations, 48 participants
- ✓ Feb. 20: Seminar for young researcher with Tokai Chapter in IEE Japan (sponsor), 1 invited presentation, 45 participants, “Development of aircraft components and systems in TAMAGAWA SEIKI Co. Ltd.” by Dr. Hideo KUMAGAI (TAMAGAWA SEIKI)
- ✓ Jul. 19: Seminar for young researcher with Tokai Chapter in IEE Japan (sponsor), 1 invited presentation, 75 participants, “Recent aircraft industry structure in Japan and development environment” by Mr. Yukihiko NAKADA (Nagano Prefecture General Industrial Technology Center)

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

- ✓ Aug. 30: Special Lecture "Effects and Issues of Applied Magnetic Field Frequency on Capacitively Coupled MHD Generator-Through Joint Research with Nagaoka University of Technology-" by Assoc. Shinji Takeyama (Electrical and Computer Engineering, Wakayama College, National Institute of Technology)
- ✓ Dec. 12: Special Lecture "Image Quality Enhancement on High-Speed Time Domain" by Prof. Jong-Ok Kim (Korea Univ.)

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
 - ✓ Joint workshop
 - ✓ Student branch board meeting
- 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 SSB composed by Shinshu Univ., Nagaoka Univ. Tech., and Niigata Univ officially started in Jan. 2019, and is actively providing opportunities to exchange various information not limited to research and promote friendship within local community. On Dec. 12, the joint workshop was co-organized by the Korea IEIE Japan Branch and IEEE Shin-etsu Section Student Branch (SSB). The students attending this event enjoyed two invited talks and free discussion through poster presentation about his/her recent results.

B.5 Affinity Group Activities

- Young Professional (YP)
- Women In Engineering (WIE)
- Life Member (LM)

At present, there are no YP, WIE, Life branches in our Section.

B.6 Awards & Recognition Activities

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

In the Shin-etsu Section, we presented excellent paper/poster awards to students who presented papers at the IEEE Sessions held in conjunction with the IEICE Shin-Etsu Section Conference and IEEEJ Niigata branch Conference. We also financially supported the section student branch (SSB) for the joint workshop with Japan Branch of IEIE Korea.

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. The URL of the English version is:

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

Our homepage is updated whenever new information is available, which is typically every 1-2 months.

B.8 Industry Relations

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

We have no industrial members. However, there are many industrial companies in this region and in the future, we plan to make 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. If our section's members have activities, we can support them.

B.10 Community Activities

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

We have no IEEE social activities

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

The IEEE Shin-etsu SSB have launched in Jan. 2019, and is actively providing opportunities to exchange various information not limited to research and promote friendship within local community. In order to advertise the activity, the joint workshop was held by the Korea IEIE Japan Branch and IEEE Shin-etsu Section Student Branch (SSB) on Dec. 12. The students attending this event enjoyed two invited talks and free discussion through poster presentation about his/her recent results.

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. Since many people are members of both the IEEE and one or both of the IEICE and IEEJ, 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. In addition, the section student branch (SSB) made a trial to co-organize a joint workshop with the Japan branch of IEIE Korea. We will continue to encourage such kind of joint events.

C3. Collaboration with other IEEE Sections

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

We have no collaborations with other IEEE sections in this year. We will discuss future collaboration with several sections.

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 have no Sub-sections and Society Chapters.

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

A joint workshop was held by the Korea IEIE Japan Branch and IEEE Shin-etsu Section Student Branch (SSB) on Dec. 12. The students attending this event enjoyed two invited talks and free discussion through poster presentation about his/her recent results. This provide a good chance to advertise the activity of our SSB to a different community. Right figure shows the SSB vice chair's presentation about the activities of our SSB.



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 2019, 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 much activate a Student branch and also a Young Professionals branch. 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 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.