

IEEE Sapporo Section Annual Report 2021

February 5, 2022

PART A - SECTION SUMMARY

A.1 Executive Summary

- Section Executive Committee Member List
 - Chair: Miki Haseyama
 - Vice Chair: Hajime Igarashi
 - Secretary/Treasurer: Takahiro Ogawa
 - Auditors: Tetsuya Asai, Kunitoshi Motoki
 - Chair of Fellow Nomination Committee: Yoshikazu Miyanaga
 - Chair of Membership Development Committee: Kunimasa Saitoh
 - Chair of Student Activities Committee: Hiroshi Tsutsui
 - Chair of Publications Committee: Hirofumi Sanada
 - Chair of Nominating Committee: Tatsuya Kashiwa
 - Chair of Technical Program Committee: Yuichi Fujino
 - Chair of Award Committee: Hirofumi Sanada
 - Other Executive Committee Members: Kiyohiko Itoh, Kenji Araki, He Li, Takeo Ohgane, Kaoru Sumi, Yukinori Suzuki, Naoto Yoshimoto
 - Student Representative: Takuya Yasugi
- Major Events (National)
 - 10 technical meetings were delivered.
 - We co-sponsored a domestic conference named 2021 Hokkaido-Section Joint Convention of Institutes of Electrical and Information Engineers which was held by online.
 - IEEE Metro Area Workshop (MAW) 2021 was held in Sapporo Section.
- Major Student and Affinity Group Activities
 - Hokkaido University and Muroran Institute of Technology Student Branches organized one special networking session in Hokkaido-Section Joint Convention of Institutes of Electrical and Information Engineers to exchange their experiences in university life. This session was co-organized with IEICE Muroran Institute of Technology Student Branch.
 - Sapporo Section WIE organized nine technical meetings/lectures.
 - Sapporo Section YP organized eleven technical meetings/lectures and joined six engineer spotlights. Furthermore, two young professionals were award by YP.
 - Sapporo Section LMAG was newly established. Furthermore, Sapporo Section LMAG organized “IEEE Sapporo Section LMAG Establishment Ceremony”, “IEEE Sapporo Section LMAG General Meeting” and six technical meetings/lectures. Sapporo LMAG also attended online R10 LMAG meets of 2021.
- Awards
 - We organized the following two types of student awards.
 - IEEE Sapporo Section Student Paper Contest
 - IEEE Sapporo Section Student Paper Awards
 - 2021 Award ceremony was canceled due to COVID-19.

A.2 Financial Report

- Summary
 - Income: JPY 1,327,929
 - Rebate from IEEE HQ JPY 391,187
 - Region 10 Assessment JPY 425,471
 - Non-IEEE CB Account Interest JPY 23
 - Support from Japan Council JPY 511,248
 - Expense: JPY 1,289,235
 - Meetings & Social Events Expense JPY 531,248
 - Educational Activities Expense JPY 150,000
 - Student Activities Expense JPY 168,812
 - Other Program Expenses JPY 50,000
 - Travel Expense JPY 0

- Support to Sections/Chapters Expense JPY 360,655
 - Other Management & General Expenses JPY 28,520
 - Cash on Hand at Beginning of Year: JPY 2,560,488
 - Cash on Hand at End of Year: JPY 2,599,182
- Any other financial activities (IEEE NextGen Banking)
 - Income: USD 1,004.98
 - R10 Section Incentives USD 1,000.00
 - Interest USD 4.98
 - Expense: USD 202.04
 - LMAG Banner USD 202.04
 - Cash on Hand at Beginning of Year: USD 1,500.00
 - Cash on Hand at End of Year: USD 2,302.94

PART B - ORGANIZATIONAL ACTIVITIES

B.1 Membership Development Activities

- Total number of active members in the past 3 years.
 - End of 2019: 334
 - End of 2020: 314
 - End of 2021: 323
- Summary and evidence of work done to improve the value of membership, which leads to retention and growth of members
 - 10 technical meetings
 - Support to new student members

B.2 Chapter Activities

- Total number of Chapters in the Section
 - No chapters other than joint chapters.
- Number of Chapters formed in the current year
 - None.

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 following 10 speakers were invited as educational/technical programs.

1. Schedule: Sep. 3, 2021, with Sapporo Section WIE, Hokkaido University and Muroran Institute of Technology Student Branches
 - Title: Multimedia Signal Processing for Promoting DX - Case Study of Industry-Academia Regional Collaboration by Specialized Cluster Analysis -
 - Lecturer: Prof. Ryosuke Harakawa, Nagaoka University of Technology, Japan
2. Schedule: Sep. 17, 2021, with Sapporo Section WIE, Hokkaido University and Muroran Institute of Technology Student Branches
 - Title: Development of Cyber-Physical System (CPS) for Active Control of River Channels
 - Speaker: Prof. Shogo Muramatsu, Niigata University, Japan
3. Schedule: Nov. 25, 2021, with Sapporo Section WIE, LMAG, Hokkaido University and Muroran Institute of Technology Student Branches
 - Title: Research on Spoken Dialog Systems for Natural Dialog
 - Speaker: Prof. Ryota Nishimura, Tokushima University, Japan
4. Schedule: Nov. 25, 2021, with Sapporo Section WIE, LMAG, Hokkaido University and Muroran Institute of Technology Student Branches
 - Title: Advanced AI Research for Infrastructure Maintenance in DX Era
 - Lecturer: Prof. Keisuke Maeda, Hokkaido University, Japan
5. Schedule: Dec. 10, 2021, with Sapporo Section WIE, LMAG, Hokkaido University and Muroran Institute of Technology Student Branches
 - Title: Attractiveness Computing and Its Behind
 - Lecturer: Prof. Toshihiko Yamasaki, The University of Tokyo, Japan

IEEE Metro Area Workshop (MAW) 2021 held in Sapporo Section (Oct. 30)

6. Schedule: 13:45-14:30
 - Title: Fostering "IT Top Guns" who can be expected to play an active role internationally through the International Collaborative Research Center for Big Data and Cyber Security at Hokkaido University
 - Lecturer: Prof. Masaharu Yoshioka, Hokkaido University, Japan
7. Schedule: 14:30-15:15

- Title: Data-Driven Infrastructure Management - Past Initiatives and Future Directions
 - Speaker: Dr. Yusho Ishikawa, Basis Consulting Inc., Japan
8. Schedule: 15:30-16:15
- Title: Introducing Data Science into Infrastructure Maintenance Management Practices
 - Speaker: Dr. Masaharu Konishi, Tokyo Metro Co., Ltd., Japan
9. Schedule: 16:15-17:00
- Title: Introduction of E-NEXCO's SMH Outline and Initiatives
 - Lecturer: Mr. Seiji Fujita, East Nippon Expressway Company Limited, Japan
10. Schedule: 17:00-17:45
- Title: Tire Research and Development Initiatives for Green Innovation
 - Lecturer: Dr. Hiroyuki Kishimoto, Sumitomo Rubber Industries, Ltd., Japan

Sapporo Section co-sponsored the following conference.

1. We co-sponsored a domestic conference named 2021 Hokkaido-Section Joint Convention of Institutes of Electrical and Information Engineers which was held by online.

B.4 Students Activities

- Total number of Student Branches in the Section
 - Two student branches (Hokkaido University and Muroran Institute of Technology)
- Section level student activities (student congress, paper and other contests, awards etc)
 - IEEE Sapporo Section Student Paper Contest
We awarded six excellent student presenters at Hokkaido-Section Joint Convention of Institutes of Electrical and Information Engineers.
 - IEEE Sapporo Section Student Paper Awards
We awarded four excellent student authors whose papers were published in the IEEE Transactions, Journals, and/or Proceedings.
- Number of active Student Branches (Student Branches who have reported required number of meetings during the year)
 - Two student branches (Hokkaido University and Muroran Institute of Technology)
- Summary of Student Branch activities (Student Branch wise with attachment table/information)
 - In 2021, Student Branches in Hokkaido University and Muroran Institute of Technology organized one special networking session in Hokkaido-Section Joint Convention of Institutes of Electrical and Information Engineers to exchange their experiences in university life. This session was co-organized with IEICE Muroran Institute of Technology Student Branch.

B.5 Affinity Group Activities

- Young Professional (YP)
 - 8 technical meetings were held, and 6 engineer spotlights were joined.
 - Three IEEE Sapporo Section LMAG Commemorative Lectures were jointly held with Sapporo Section LMAG.
 - 2021 IEEE Sapporo Young Professionals Awards
Two young professionals were respectively awarded “IEEE Sapporo Young Professionals Best Researcher Award” and “IEEE Sapporo Young Professionals Best Paper Award”.
- Women In Engineering (WIE)
 - One technical meeting was held, and five technical meetings were jointly held with Sapporo Section.
 - Three IEEE Sapporo Section LMAG Commemorative Lectures were jointly held with Sapporo Section LMAG.
- Life Member
 - Formation of the IEEE Sapporo Section Life Member Affinity Group (LMAG) was approved on Jun. 7, and established on Oct. 31.
 - “IEEE Sapporo Section LMAG Establishment Ceremony”, “IEEE Sapporo Section LMAG General Meeting” and “three IEEE Sapporo Section LMAG Commemorative Lectures” were held on Oct. 31.

- Three technical meetings were jointly held with Sapporo Section.
- Attendance of online R10 LMAG meets of 2021 on Sept. 18 and Nov. 20

B.6 Awards & Recognition Activities

- Award constituted by the Section
 - 2021 IEEE Sapporo Young Professionals Awards
Two young professionals were respectively awarded “IEEE Sapporo Young Professionals Best Researcher Award” and “IEEE Sapporo Young Professionals Best Paper Award”.
 - Senior Promotion Medals
Two members who were promoted to senior members received medals commemorating their promotion.
- Please list all Awards and Recognitions received by the Section, and members in the Section, from R 10 and IEEE HQ during the year
 - Mr. Jiong Dong, Vice Chair of Student Branch in Muroran Institute of Technology, was selected as a winner of the IEEE Region 10 Young Professionals REVOL 2021.

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

- Home Page of the Section (give the URL and how often it is updated)
 - Section’s web page:
<https://www.ieee-jp.org/section/sapporo/>
 - Sapporo Section WIE:
<https://scrapbox.io/WIE-Sapporo/home>
 - Sapporo Section YP:
<https://r10.ieee.org/sapporo-yp/>
 - Student Branch at Hokkaido University
<https://csw.ist.hokudai.ac.jp/ieee/>
 - Student Branch at Muroran Institute of Technology
http://www3.muroran-it.ac.jp/enes/student_branch/
- Other means of contacts with Section members including social media
 - eNotice

B.8 Industry Relations

- Activities for/with industrial members
 - IEEE Metro Area Workshop (MAW) 2021 was held in Sapporo Section (Oct. 30).

B.9 Humanitarian Technology Activities

None.

B.10 Community Activities

None.

PART C - OTHERS

C.1 Special Events

- Please briefly describe the importance of special events and the outcomes achieved
 - Formation of the IEEE Sapporo Section Life Member Affinity Group (LMAG) was approved on Jun. 7, and established on Oct. 31.
Officers
Chair: Kiyohiko Itoh, Professor Emeritus, Hokkaido University
Vice Chair: Masanori Koshiba, Professor Emeritus, Hokkaido University
Secretary: Yasutaka Ogawa, Professor Emeritus, Hokkaido University

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

None.

C.3 Collaboration with other IEEE Sections

None.

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

None.

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

None.

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

We are planning to organize technical lectures, symposiums, workshops on topics of interests. In some cases, these might be in collaborations with other institutes.

D.2 Goals and Future Plans

- Increasing the membership
- Enhancing the student activities
- Nominations of members for Senior Member and Fellow of the Institute
- Providing better services to the members
- Exploring the possibility of new student branches

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

We do not have any actual ideas. We would like to discuss this issue in the section.

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

We do not have any actual plan yet. We would like to discuss this issue in the section.