



2020 IEEE Hiroshima Section Activity Report

PART A - SECTION SUMMARY

A.1 Executive Summary

Section Highlights

- Administrative Meetings including the General Assembly and MAW2020 preparation meetings: 9
- Section Sponsored Technical and Educational Lectures (Lecture meeting 4, Technical symposium 1, Technical workshop 1): 6
- Section co-sponsored or supported Technical Events: 7
- Total number of Student Branches in Hiroshima Section: 2
- The 22nd IEEE Hiroshima Student Symposium (HISS) (Details are in Section B.4 and the attached file "22ndHISS.pdf")
- The Metro Area Workshop (MAW) 2020 (Details are in Section B.4 and the attached file "MAW2020report.pdf")
- IEEE Shikoku, Fukuoka, Hiroshima Joint Section Women In Engineering Affinity Group (WIE) was established in August, 2020 and WIE establishment workshop was held in Nov. 21, 2020 (Details are in Section B.5)

2020 Section Executive Committee Member List

Officers [2019-2020]:

Chair: Kensuke Okubo (Okayama Prefectural University)
okubo@c.oka-pu.ac.jp

Vice Chair: Hiroji Masuda (Shimane University)
masuda@ecs.shimane-u.ac.jp

Secretary: Chisa Takano (Hiroshima City University)
takano@hiroshima-cu.ac.jp

Treasurer: Takahiro Matsumoto (Yamaguchi University)
matugen@yamaguchi-u.ac.jp

Executive Committee Members [2019-2020]:

Yoshifumi Zoka (Hiroshima University)
[Additional Post: Fellow Committee Chair]
zo@hiroshima-u.ac.jp

Hiroaki Yamada (Yamaguchi University)
[Additional Post: Membership Development Committee Chair]
hiro-ymd@yamaguchi-u.ac.jp

Shigeru Tomisato (Okayama University)
[Additional Post: Educational Activities Chair]
tomisato@okayama-u.ac.jp

Hironori Takimoto (Okayama Prefectural University)
[Additional Post: Women in Engineering Committee Chair]
takimoto@c.oka-pu.ac.jp

Hiroyasu Obata (Hiroshima City University)
[Additional Post: Industry Relation Committee Chair]
obata@hiroshima-cu.ac.jp

Daisuke Kushida (Tottori University)
[Additional Post: Student Committee Chair]
kushida@tottori-u.ac.jp

Kokoro Kitamura (Shimane University)
[Additional Post: Student Committee Chair]
kitamura@ecs.shimane-u.ac.jp

Hajime Nakajima (Fukuyama University)
[Additional Post: Chapter Promotion Committee Chair]
nakajima.hajime@fukuyama-u.ac.jp

Isao Nakanishi (Tottori University)
[Additional Post: Award Committee Chair]
nakanishi@tottori-u.ac.jp

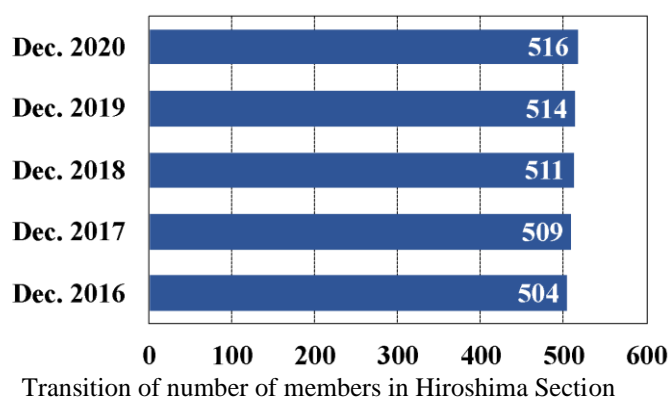
A.2 2020 Financial Report

| | | (Japanese Yen) |
|---|--|------------------|
| Income | Balance carried forward | 852,121 |
| | Section Assessment | 956,794 |
| | Section Rebate | 453,964 |
| | Student Rebate | 18,829 |
| | 2019 Strategic Planning Survey Incentive | 5,330 |
| | Interest | 9 |
| | Support for HISS from Foundation | 414,800 |
| | Support for MAW2020 from JC | 871,850 |
| | Total of Income in Section Account | 3,573,697 |
| | Income of HISS (different account from section) | 397,000 |
| Sum of Total of Income in Section Account and Income of HISS | | 3,970,697 |
| Expense | Section Assessment | 811,835 |
| | Chapter Rebate for SMC28 (\$295.00-) | 31,359 |
| | Student Rebate for HSSB and YUSB | 16,330 |
| | Expense for Administrative Meetings | 44,760 |
| | Expense for Technical Meetings | 1,060 |
| | Section Activities | 133,000 |
| | Postage & Supplies | 4,770 |
| | Stationery & Bank charge | 24,101 |
| | Reserve for next year | 1,125,662 |
| | Support for HISS | 100,000 |
| | Support for HISS from Foundation | 412,300 |
| | Expense of MAW2020 | 868,520 |
| | Total of Expense in Section Account | 3,573,697 |
| Expense of HISS (different account from section) | 397,000 | |
| Sum of Total of Expense in Section Account and Expense of HISS | | 3,970,697 |
| End-of-Year Balance | | 0 |

PART B - ORGANIZATIONAL ACTIVITIES

B.1 Membership Development Activities

- Number of Members@ Dec. 2020: 516 [+2 from Dec. 2019]
- Number of Members@ Dec. 2019: 514 [+3 from Dec. 2018]
- Number of Members@ Dec. 2018: 511 [+2 from Dec. 2017]
- Number of Members@ Dec. 2017: 509 [-10 from Dec. 2016]
- Number of Members@ Dec. 2016: 519



B.2 Chapter Activities

Total number of Chapters in the Hiroshima Section: 2

- Fukuoka/Hiroshima/Shikoku (West Japan) Chapter, EMB18
Activities of EMB West Japan Chapter; Please refer the Fukuoka Section.
- Hiroshima Section Chapter, [SMC Hiroshima Chapter], SMC28
[Activities of SMC Hiroshima Section Chapter]
List of Chapter Officers of SMC [2018-2019]
Chair: Tomohiro HAYASHIDA (Hiroshima University)
Vice Chair: Keiichi TAMURA (Hiroshima City University)
Secretary: Daisuke HIROTANI (Prefectural University of Hiroshima), Tomoko TATEYAMA (Hiroshima Institute of Technology)
Treasurer: Jun-ichi KUSHIDA (Hiroshima City University)

Technical Activities (SMC)

- Quality and quantity of activities and programs sponsored by the chapter
-

| | Meeting date | Title | Type | Number of days | Number of participants (*) |
|---|--------------|--|-----------|----------------|----------------------------|
| 1 | 22 Feb. 2020 | Seminar for Word Press | Technical | 1 | 6 (6) |
| 2 | 22 Feb. 2020 | IEEE SMC Hiroshima Chapter Special Lecture Prof. Y. Orito (Hiroshima University) | Technical | 1 | 17 (9) |
| 3 | 8 Mar. 2020 | Cooperation for 21th Annual Meeting of Self-Organizing Maps in JAPAN 2020 | Technical | 1 | Canceled |
| 4 | 12 Oct. 2020 | Special Session on Advanced Computational Intelligence and Knowledge Extraction in SMC2020 | Technical | 1 | 15 (15) |
| 5 | 3 Nov. 2020 | 2020 IEEE SMC Hiroshima Chapter Young Researchers' Workshop | Technical | 1 | 52 (15) |
| 6 | 3 Nov. 2020 | IEEE SMC Hiroshima Chapter Special Lecture Prof. T. Adachi (Mazda Motor Cooperation) | Technical | 1 | 52(15) |

(* Number of participants of IEEE members)

Membership Communication and Advancement (SMC)

- Growth of chapter membership

| Membership at last status report submitted | Current Membership | % Growth |
|--|--------------------|----------|
| 58 | 51 | -12.1% |

Other detailed activities report of SMC Hiroshima chapter can be found at following website.
<https://www.ieee-jp.org/section/hiroshima/chapter/SMC-28/english/>

B.3 Professional and Continuing Education Activities

(B.3.1) 2020 General Assembly of IEEE Hiroshima Section

Jan. 28, 2020 (Hiroshima Garden Palace) , Attendance: IEEE Members: 13 (letters of attorney: 108)

(B.3.2) Administrative Meetings

Administrative meetings were held 4 times.

1. The 1st Board of Directors on April 18, 2020 (Online)
Attendance: Officers and Executive Committee Members 11
2. The 2nd Board of Directors on June 27, 2020 (Online)
Attendance: Officers and Executive Committee Members 11
3. The 3rd Board of Directors on Sept. 12, 2020 (Online)
Attendance: Officers and Executive Committee Members 14
4. The 4th Board of Directors on Nov. 29, 2020 (Online)
Attendance: Officers and Executive Committee Members: 12
<https://www.ieee-jp.org/section/hiroshima/e/activity-report/>

(B.3.3) MAW2020 Preparation Meeting

Preparation Meetings of IEEE Metro Area Workshop (MAW) were held 4 times.

1. The first meeting for the MAW2020 to be hosted by the IEEE Hiroshima section on Nov. 22, 2019 (Hiroshima Office Centre)
Attendance: Officers and Executive Committee Members: 4
2. The 2nd meeting for the MAW2020 to be hosted by the IEEE Hiroshima section on Feb. 13, 2020 (Online)
Attendance: Officers and Executive Committee Members: 4
3. The 3rd meeting for the MAW2020 to be hosted by the IEEE Hiroshima section on June. 2, 2020 (Online)
Attendance: Officers and Executive Committee Members: 4
4. The 4th meeting for the MAW2020 to be hosted by the IEEE Hiroshima section on Oct. 11, 2020 (Online)
Attendance: Officers and Executive Committee Members: 4

<https://www.ieee-jp.org/section/hiroshima/e/activity-report/>

(B.3.4) Lectures and Events

(1) Section sponsored Technical and Educational Lectures: 6 (Lecture meeting 4, Technical symposium 1, Technical workshop 1)

- Lecture Meetings were held 4 times.

1. Special Lecture at Hiroshima

Title: Society Activity and Grand Design of Advance Education for 2040

Speaker: Prof. Kenji Ishida (Hiroshima City University)

Location: Hiroshima, Date: Jan. 28, 2020, Attendance: 15

<https://www.ieee-jp.org/section/hiroshima/e/2020/01/20/special-lecture-january-28-2020/>

2. Technical Lecture

Title: LED visible light communication in wireless communication

Speaker: Prof. Shigeru Tomisato (Okayama University)

Location: Online, Date: April 18, 2020, Attendance: 22

<https://www.ieee-jp.org/section/hiroshima/e/2020/04/22/technical-lecture-april-18-2020/>

3. Technical I Lecture

Title: What can you get from the experience in the IEEE Hiroshima Section Student Symposium?

Speaker: Prof. Masashi Hotta (Yamaguchi University)

Location: Online, Date: June 27, 2020, Attendance: 51

<https://www.ieee-jp.org/section/hiroshima/e/2020/07/03/technical-lecturejune-27-2020/>

4. Technical Lecture

Title: Consideration on the relationship between aesthetic quality estimation of photographs using deep learning and composition

Speaker: Prof. Hironori Takimoto (Okayama Prefectural University)

Location: Online, Date: Sept. 12, 2020, Attendance: 14

<https://www.ieee-jp.org/section/hiroshima/e/2020/09/13/technical-lectureseptember-12-2020/>

- Technical symposium (HISS2020) were held as follows:

The 22nd IEEE Hiroshima Section Student Symposium (HISS) was held in November 28, 29, 2020 via online. HISS is an event, "for society by student" mainly planned and managed by the students.

The number of attendances for the 22nd HISS is 194 (sum of two days).

Zoom Maximum number of simultaneous accesses

- Opening Ceremony: 102
- Lecture by Micron: 119
- Closing ceremony: 115
- Exchange meeting: 78

The contents of this symposium are as follows;

- One keynote lecture
Title: Memory Technology Trends and Micron: The Future Starts Here
Speaker: Linda Somerville (Corporate Vice President, Strategy and Operations Technology Development, Micron Technology, Inc.)
- One presentation from industrial company
- 2 presentations from academic laboratories
- 2 presentation from high-school students
- One get-together meeting

- Technical presentations (Number of Technical Presentations: 77)
- One experience course
- On this symposium, following prizes are awarded:
 Selected by the Nomination Committee of HISS Research Award.
 HISS Best Research Award: 1
 HISS Good Research Award: 14
 HISS English Presentation Award: 1
 HISS Best Presentation Award for High School Students: 1
 HISS Excellence Presentation Award for High School Students: 1
 Selected by the vote of attendances.
 HISS Best Presentation Award: 1
 Micron Award: 1
 HISS Good Presentation Award: 4
 HISS Good Presentation Award for Academic Laboratories: 1

<http://www.ieee-jp.org/section/hiroshima/e/>

(See Appendix 1)

- Technical workshop (MAW2020) were held as follows:
 On October 16, 2020, "Metro Area Workshop (MAW) 2020 in Hiroshima" was held at Hiroshima Garden Palace hotel in Hiroshima City (Onsite & Online hybrid workshop). At this year's MAW, we invited 7 speakers for giving special talks regarding advanced information and communication technology that supports social infrastructure in the Mobile era under the theme of "IoT created by Mobile, Mobility accelerated by IoT". We were very pleased with interesting and impactful presentations on the latest communication technologies in high-speed mobile objects such as cars and railways, and the development issues of various communication systems surrounding IoT. There were many participants from many companies, local governments, and universities: 56 participants at the venue, and 118 participants online, a total of 174 participants. The exchange meeting after the workshop ended with great success with 46 participants.
<https://www.ieee-jp.org/section/hiroshima/e/2020/08/13/ieee-metro-area-workshop-2020-in-hiroshima/>
 (See Appendix 2)



Group photo of MAW2020

(2) Section co-sponsored or supported Technical Events: 7

1. Co-sponsored Technical Event– Organized by WPMC
 Title : 2020 23rd International Symposium on Wireless Personal Multimedia Communications (WPMC)
 Date : 18-21 Oct., 2020 (Canceled due to the influence of COVID-19 (Coronavirus) pandemic)
 Location : Okayama University
2. Co-sponsored Technical Event– Organized by ICIET
 Title : 2020 8th International Conference on Information and Education Technology (ICIET)
 Date : 28-30 March, 2020
 Location : online
3. Co-sponsored Technical Lecture– Organized by Okayama University

Title : Development of a Mimic Robot - Learning from Demonstration Incorporating Object Detection and Multi-Action Recognition

Speaker : Prof. Chen-Chien Hsu (National Taiwan Normal University)

Data : 31 March, 2020 (Canceled due to the influence of COVID-19 (Coronavirus) pandemic)

Location : Okayama University

4. Co-sponsored Technical Lecture– Organized by Okayama University

Title : Design and Implementation of Wearable Eye Tracker with Visible Light and Near Infrared Image Sensors

Speaker : Prof. Chih-Peng Fan (National Chung Hsing University)

Data : 27 March, 2020 (Canceled due to the influence of COVID-19 (Coronavirus) pandemic)

Location : Okayama University

5. Co-sponsored Technical Event – Organized by IEICE Chugoku Section

Title : Fresh IT Award 2020 "Not just developers! 10 points to keep in mind when it comes to mobile app development"

Speaker : Kazuya Okamoto(Kotobuki Solution Co., Ltd.)

Date : 21 July - 21 Aug., 2020

Location : Online

6. Co-sponsored Technical Event – Organized by IEICE Chugoku Section

Title : Fresh IT Award 2020 Final Judging / Award Ceremony

Data : 25 Oct., 2020

Location : Online

7. Co-sponsored Technical Lecture – Organized by Information Processing Society of Japan Chugoku Branch

Date and time: January 7, 2021

Location : Online

Title: Development of dementia prediction tool using brain MRI images and machine learning

B.4 Students Activities

(B.4.1) Recruitment of Student Members

- Student members who joined HISS steering committee deserve additional prizes with their contribution awards.
- Continuation of encouragement systems for presentation of the student members on the international/domestic conferences. In 2020, 11 students have been supported for their presentation.

(B.4.2) Total number of Student Branches in Hiroshima Section: 2

Yamaguchi SB: A meeting and 2 workshops were held by Yamaguchi SB Committee.

1. Election of board member

Date: February 6th, 2020

Location: Seminar room 1, Building EE, Tokiwa campus, Yamaguchi University

Number of participants: 8

Description: New board members were elected in an annual election.

2. Presentation workshop

Date: April 23rd, 2020

Location: Online (Zoom)

Speaker: Prof. Hiroaki Yamada (Department of Electrical and Electronic Engineering)

Number of participants: 9

Description: The presentation workshop was held. A speaker described how to make presentation slide and talk in front of an audience.

3. LaTeX workshop for beginners

Date: April 28th, 2020

Location: Online (Zoom)

Speaker: Prof. Hiroaki Yamada (Department of Electrical and Electronic Engineering)

Number of participants: 9

Description: The LaTeX workshop was held for beginners. A speaker described how to make a document by LaTeX.

<http://ysb.eee.yamaguchi-u.ac.jp/activity/>

Hiroshima Section SB: Administrative Meetings were held 2 times.

1. The 1st Board meeting

Date: September 18th, 2020 Location: Online Attendance: 5

<https://hiroshima-ssb.netlify.app/>

2. The 2nd Board meeting

Date: October 13th, 2020 Location: Online Attendance: 4

<https://hiroshima-ssb.netlify.app/>

Hiroshima Section SB members participated as committee members of SYWL Workshop 2020 for the purpose of activating the Student Branch. The purpose of this workshop is to disseminate a wide range of information on IEEE, technology, and standardization, and to develop human resources who will lead the future in a wide range of industrial fields. 3 preparation meetings of SYWL 2020 were held as follows:

1. The first preparation meeting

Date: Aug. 31, 2020 Location: Online (Zoom) Attendance: 22

2. The 2nd preparation meeting

Date: Sept. 14, 2020 Location: Online (Zoom) Attendance: 20

3. The 3rd preparation meeting

Date: Oct. 12, 2020 Location: Online (Zoom) Attendance: 24

Overview of SYWL workshop 2020 is as follows:

Date: Oct. 17, 2020 Location: Hiroshima (onsite) and online(zoom)

Attendance: 45 (onsite 25, online 20)

<https://ieee-jp.org/japancouncil/affinitygroup/SYWL2020/index.html>

<https://hiroshima-ssb.netlify.app/>

B.5 Affinity Group Activities

Women in Engineering

- In August, 2020, the IEEE Shikoku, Fukuoka, Hiroshima Joint Section Women In Engineering Affinity Group (WIE) was established in collaboration with the Shikoku and Fukuoka sections
Chair : Chaoyang Li (Kochi University of Technology)
Vice Chair: Hiromi Yuasa (Kyushu University)
Treasurer: Takimoto Hironori (Okayama Prefectural University)
Secretary: Miho Tsutsumi (Micron Memory Japan G.K.)
- Preparation meetings of the WIE establishment workshop were held 3 times:
 1. The first meeting of IEEE Shikoku, Fukuoka, Hiroshima Joint Section Women In Engineering Affinity Group (WIE), July 29 , Attendance: 4
 2. The 2nd meeting of IEEE Shikoku, Fukuoka, Hiroshima Joint Section Women In Engineering Affinity Group (WIE), Aug. 19 , Attendance: 9 (online)
 3. The 3rd meeting of IEEE Shikoku, Fukuoka, Hiroshima Joint Section Women In Engineering Affinity Group (WIE), Oct. 1 , Attendance: 9 (online)
- WIE establishment workshop was held in Nov. 21, 2020
<https://www.ieee-jp.org/section/hiroshima/e/2020/10/19/establishment-wie/>

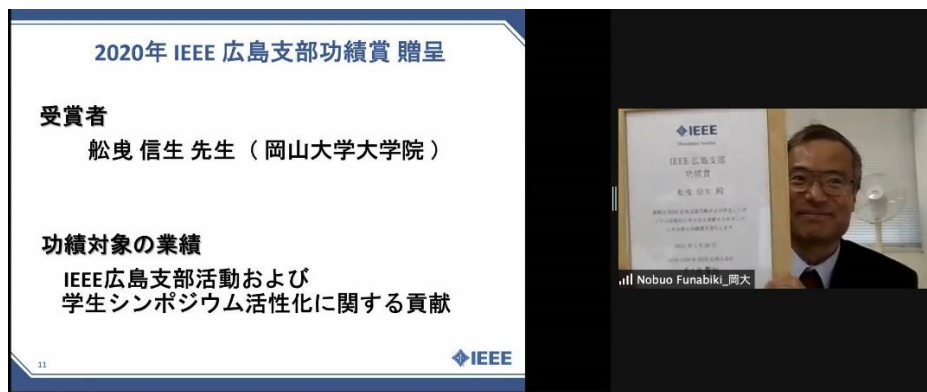


Group photo of WIE establishment workshop

B.6 Awards & Recognition Activities

Award constituted by Hiroshima Section

- The 2020 Hiroshima Section Contribution Award: Prof. Nobuo Funabiki (Okayama University)
- The 22nd HISS Special Distinguished Contribution Award: 1 student
- The 22nd HISS Special Distinguished Service Award: 8 students
- The 22nd HISS Distinguished Contribution Award: 3 student
- The 22nd HISS Distinguished Service Award: 28 students



Group photo of the 2020 Hiroshima Section Contribution Award

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

Section Web site

- <https://www.ieee-jp.org/section/hiroshima/> (in Japanese)
- <http://www.ieee-jp.org/section/hiroshima/e/> (in English)

Section Facebook page

- <https://www.facebook.com/ieee.hiroshima/> (in Japanese)

The web page of Hiroshima Section Student Branch

- <https://hiroshima-ssb.netlify.com/> (in Japanese)

The web page of Yamaguchi University Student Branch

- <http://ysb.eee.yamaguchi-u.ac.jp/> (in Japanese)

The web page of IEEE SMC chapter in Hiroshima Section

- <https://www.ieee-jp.org/section/hiroshima/chapter/SMC-28/> (in Japanese)
- <https://www.ieee-jp.org/section/hiroshima/chapter/SMC-28/english/> (in English)

The 22nd HISS Web site

- <http://www.ieee-jp.org/section/hiroshima/e/>

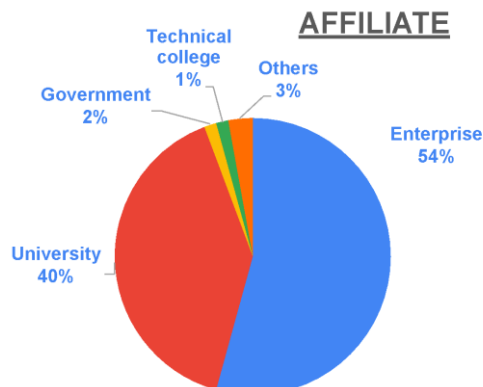
The MAW2020 Web site

- <https://www.ieee-jp.org/section/hiroshima/maw2020-offer/maw2020/> (in Japanese)
- <http://www.ieee-jp.org/section/hiroshima/MAW2020/MAW2020report.pdf>

B.8 Industry Relations

Membership growth and retention and Activities for/with industrial members

As shown in the figure below, the majority of MAW2020 (refer to Section B.3) participants belong to enterprises. In the opening of MAW2020, IEEE Hiroshima Section Chair widely introduced technological trends in fields deeply related to IEEE and encouraged the IEEE membership. In addition, this workshop provided opportunities for collaboration among industry, academia, and government(or different fields/industries) to further promote and contribute to the development of society.



Affiliation distribution of MAW2020 participants

PART C - OTHERS

C.1 Special Events

(C.1.1) The 22nd IEEE Hiroshima Section Student Symposium (HISS) (refer to Section B.3)

HISS is the one of unique events in IEEE Hiroshima Section whose purpose is to support the growth of students with independence and a spirit of enterprise. HISS had two special characteristics; one is that students themselves carry out the planning and management of the symposium and the other is that all the technical papers in HISS are presented by students by the interactive sessions. The main theme of each HISS would be decided by the students. And also, based on the interest from students' point of view, the topics of the Keynote Speech and the Technical Lecture in HISS are selected. The major part of the income of the symposium was obtained by support from the Hiroshima Section, the Micron Foundation, some sections of domestic technical societies, and presenters' submission fee. The IEEE Hiroshima Section hopes to grow this HISS to surrounding sections and it to be one of a unique event in Japan or R10 in near future.

(C.1.2) The Metro Area Workshop (MAW) 2020 (refer to Section B.3)

On October 16, 2020, MAW2020 was held at Hiroshima Garden Palace hotel in Hiroshima City (Onsite & Online hybrid workshop). MAW2021 will be held under sponsored the Sapporo Section in 2021.

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

- In Japan, we have very well-organized national technical societies for electrical, electronic and information engineering, e.g. Institute of Electronics, Information and Communication Engineers (IEICE). They also have local branches as well as the IEEE Sections.
- Hold technical lectures and events in co-operation with other national technical societies, such as IEICE or IPSJ (The Information Processing Society of Japan) and so on, through their local branches around the Hiroshima Section, and also Universities.

C.3 Collaboration with other IEEE Sections

- (Refer to Section B.5) In August of 2020, the IEEE Shikoku, Fukuoka, Hiroshima Joint Section Women In Engineering Affinity Group (WIE) was established in collaboration with the Shikoku and Fukuoka sections and the WIE establishment workshop was held in Nov. 21, 2020.

C.4 Best Practices of Hiroshima Section

- Welcome message to the new members
We had sent welcome messages to the members who newly joined the Hiroshima Section, in order to announce the services for members, Section Web site, events in the Section (including HISS), etc.

PART D - GOALS AND PLANS

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

(D.1.1) General Assembly

Annual meeting plan to hold via online(zoom) on January 26, 2021.

(D.1.2) Board of Directors

Four committee meetings plan to hold.

(D.1.3) The 23rd IEEE Hiroshima Student Symposium (HISS)

The 23rd HISS plan to hold at Yamaguchi University, Ube, Japan on November, 2021.

(D.1.4) Technical Lectures

Planning at least 5 Sponsored Technical Lectures and at least 4 co-sponsored or supported Technical Lectures and/or Forums with other National Societies in Japan.

(D.1.5) Encouragement of student members

Strongly encourage the student members to present their research work at the international and also the domestic conferences or symposium.

D.2 Goals and Future Plans

- Our goal is to develop the number of active members and to be a useful organization for already existing members.
- We are planning the 23rd HISS at Yamaguchi University.
- We try to find the system for active communications between academic and company members.

D.3. Standing Committees Activities

(D.3.1) Membership Development & Student Activities Committees

- Promote to join the IEEE at the IEEE Hiroshima Student Symposium (HISS).
- Encouraging the researchers and also the student in Hiroshima Section to be member or student member of IEEE.
- Improvement of membership service quality in Hiroshima Section for member or student member of IEEE

(D.3.2) Student Committee

- Promotion for the use of a grant (Max.: 10,000 JPY) to active IEEE student members. We encourage the student members to present their work at the domestic/international conferences.
- We plan to establish new student branch and also encourage the activities of existing student branch.

(D.3.3) Fellow Nomination Committee

We encourage the members to upgrade their higher grades membership.

(D.3.4) Award Committee

We plan to present the Section Contribution Award to the Contributors for Hiroshima Section and the Section Award to the members of IEEE.

(D.3.5) Educational Activity Committee

Regarding the Japan council Educational Activity, we decided to plan and promote EA in Japan and each branch in cooperation with JC and the EA staff of each branch. In particular, discuss the following matters

- Propose contents
- Utilize the features and networks of each branch
- Hold EA events at each branch (to the extent possible)
- Promote EA (advertisement, etc.) at each branch
- Share current education-related activities
- Identify issues and requests regarding education-related activities
- Propose for education-related projects (including nationalization of branch activities)

(Appendix 1)

The 22nd IEEE Hiroshima Section Student Symposium (HISS) Report

Abstract

The 22nd IEEE Hiroshima Section Student Symposium(HISS) was held in November 28, 29, 2020 via online. HISS is an event, "for society by student" mainly planned and managed by the students. The number of attendances for the 22nd HISS is 194 (sum of two days).

<http://www.ieee-jp.org/section/hiroshima/e/>

In November 28, 29, the 22st HISS was held.

Location: online

Number of participants: 194 (number of registrations)

Zoom Maximum number of simultaneous accesses

- Opening Ceremony: 102
- Lecture by Micron: 119
- Closing ceremony: 115
- Exchange meeting: 78

The contents of this symposium are as follows;

- One keynote lecture
 - Title: Memory Technology Trends and Micron: The Future Starts Here
 - Speaker: Linda Somerville (Corporate Vice President, Strategy and Operations Technology Development, Micron Technology, Inc.)
- One presentation from industrial company
- 2 presentations from academic laboratories
- 2 presentation from high-school students
- One get-together meeting
- Technical presentations (Number of Technical Presentations: 77)
- One experience course
- On this symposium, following prizes are awarded:
 - (a) Selected by the Nomination Committee of HISS Research Award.
 - HISS Best Research Award: 1
 - HISS Good Research Award: 14
 - HISS English Presentation Award: 1
 - HISS Best Presentation Award for High School Students: 1
 - HISS Excellence Presentation Award for High School Students: 1
 - (b) Selected by the vote of attendances.
 - HISS Best Presentation Award: 1
 - Micron Award: 1
 - HISS Good Presentation Award: 4
 - HISS Good Presentation Award for Academic Laboratories: 1

(Appendix 2)

IEEE Metro Area Workshop 2020 in Hiroshima Report "IoT created by Mobile, Mobility accelerated by IoT"

Abstract On October 16, 2020, "Metro Area Workshop (MAW) 2020 in Hiroshima" was held at Hiroshima Garden Palace hotel in Hiroshima City (onsite & online hybrid workshop). At this year's MAW, we invited 7 speakers for giving special talks regarding advanced information and communication technology that supports social infrastructure in the Mobile era under the theme of "IoT created by Mobile, Mobility accelerated by IoT". We were very pleased with interesting and impactful presentations on the latest communication technologies in high-speed mobile objects such as cars and railways, and the development issues of various communication systems surrounding IoT. There were many participants from many companies, local governments, and universities: 56 participants at the venue, and 118 participants online, a total of 174 participants. The exchange meeting after the workshop ended with great success with 46 participants.

Date : Oct. 16, 2020

Venue: HIROSHIMA GARDEN PALACE HOTEL & Online (Zoom)

Attendance: Total 174 participants (56 at the venue, 118 online)

Organizer : IEEE Hiroshima Section

Program

12:30 Opening

Opening remarks: IEEE Hiroshima Section Chair Kensuke Okubo

Guest greetings : IEEE R10 Director Akira Nishihara

Guest greetings : IEEE Japan Council Chair Takao Onoye

12:45 Lecture 1

Title: Highway disaster response and expectations for IoT technology

Speaker: Mr. Koji Kosasa (Executive Officer, President of Chugoku Branch of West Nippon Expressway Company Limited)

Lecture 2 Utilization of information technology for highly reliable railway transportation

13:30 Lecture 2-1

Title: Real-world digitization and its utilization in railways

Speaker: Mr. Kenichi Takao (General Manager, Facility Technology Office, Facility Department, Railway Headquarters, West Japan Railway Company)

14:00 Lecture 2-2

Title: Utilization of information technology in the management of railway vehicles

Speaker: Mr. Jun Moriyama (Chief, Vehicle Technology Center, Transportation Vehicle Department, East Japan Railway Company)

14:45 Lecture 3

Title: LPWA communication standard "ELTRES" technology for high-speed movement and business development

Speaker: Mr. Shinichi Kitazono (Chief Engineer, IoT Solutions Division, Sony Semiconductor Solutions Corporation,)

15:30 Lecture 4

Title: Efforts to realize next-generation vehicle systems based on the utilization of information technology

Speaker: Mr. Toru Yoshioka (Deputy General Manager, Integrated Control System Development Division, Mazda Motor Corporation)

16:30 Lecture 5

Title: Mechanisms and technologies required for sensor data utilization cycles at manufacturing sites -- Importance of stream data analysis engine (CEP technology) and application examples--

Speaker: Mr. Keisuke Kirimoto (IoT Solution Team, Solution Service Department, Solution Sales Headquarters, Energia Communications Inc.)

17:15 Lecture 6

Title: Accelerating the transformation of information to intelligence

Speaker: Mr. Daigo Sotoyama (Senior marketing manager, Japan Embedded Business Unit, Micron Japan, Ltd.)

18:15-20:15 Exchange meeting 46 participants

Opening

Welcome remarks: IEEE Hiroshima Section Chair Kensuke Okubo

Guest greetings : 2020 IEEE President Toshio Fukuda

Kanpai greetings : IEEE Japan Council LMAG Coordinator Tomonori Aoyama

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