2019 IEEE Hiroshima Section Activity Report

PART A - SECTION SUMMARY

A.1 Executive Summary

Section Highlights
- Held 10 sponsored, co-sponsored, and supported Technical Events (Lectures, Conference, Symposium, Contest and Seminars), 5 Administrative Meetings including the General Assembly, and 1 MAW2020 Preparation Meeting. (Details are in the Section B.3)
- Held the 21st IEEE Hiroshima Student Symposium (HISS). (Details are in the Section B.4)

2019 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 2019 Financial Report

<table>
<thead>
<tr>
<th></th>
<th>(Japanese Yen)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Income</strong></td>
<td></td>
</tr>
<tr>
<td>Balance carried forward</td>
<td>233,868</td>
</tr>
<tr>
<td>Section Assessment</td>
<td>1,010,559</td>
</tr>
<tr>
<td>Section Rebate</td>
<td>461,944</td>
</tr>
<tr>
<td>Student Rebate</td>
<td>9,324</td>
</tr>
<tr>
<td>2019 Voting Incentive</td>
<td>53,950</td>
</tr>
<tr>
<td>Interest</td>
<td>6</td>
</tr>
<tr>
<td>Support for HISS from Foundation</td>
<td>1,083,800</td>
</tr>
<tr>
<td><strong>Total of Income in Section Account</strong></td>
<td>2,853,451</td>
</tr>
<tr>
<td>Income of HISS (different account from section)</td>
<td>817,500</td>
</tr>
<tr>
<td><strong>Sum of Total of Income in Section Account and Income of HISS</strong></td>
<td>3,670,951</td>
</tr>
<tr>
<td><strong>Expense</strong></td>
<td></td>
</tr>
<tr>
<td>Section Assessment</td>
<td>857,543</td>
</tr>
<tr>
<td>Chapter Rebate for SMC28 ($295.00-)</td>
<td>31,966</td>
</tr>
<tr>
<td>Student Rebate for YSB</td>
<td>8,324</td>
</tr>
<tr>
<td>Expense for Administrative Meetings</td>
<td>148,120</td>
</tr>
<tr>
<td>Expense for Technical Meetings</td>
<td>28,980</td>
</tr>
<tr>
<td>Section Activities</td>
<td>102,490</td>
</tr>
<tr>
<td>Postage &amp; Supplies</td>
<td>82</td>
</tr>
<tr>
<td>Stationery &amp; Bank charge</td>
<td>28,348</td>
</tr>
<tr>
<td>Reserve for next year</td>
<td>852,121</td>
</tr>
<tr>
<td>Support for HISS</td>
<td>261,077</td>
</tr>
<tr>
<td>Support for HISS from Foundation</td>
<td>534,400</td>
</tr>
<tr>
<td><strong>Total of Expense in Section Account</strong></td>
<td>2,853,451</td>
</tr>
<tr>
<td>Expense of HISS (different account from section)</td>
<td>817,500</td>
</tr>
<tr>
<td><strong>Sum of Total of Expense in Section Account and Expense of HISS</strong></td>
<td>3,670,951</td>
</tr>
<tr>
<td><strong>End-of-Year Balance</strong></td>
<td>0</td>
</tr>
</tbody>
</table>

### PART B - ORGANIZATIONAL ACTIVITIES

#### B.1 Membership Development Activities
- 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

Transition of number of members in Hiroshima Section.
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

<table>
<thead>
<tr>
<th>Meeting date</th>
<th>Title</th>
<th>Type</th>
<th>Number of days</th>
<th>Number of participants (*)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 8 Mar. 2019</td>
<td>Cooperation for 20th Annual Meeting of Self-Organizing Maps in JAPAN 2019</td>
<td>Technical</td>
<td>1</td>
<td>20 (3)</td>
</tr>
<tr>
<td>2 20 Jul. 2018</td>
<td>2019 IEEE SMC Hiroshima Chapter Young Researchers' Workshop</td>
<td>Technical</td>
<td>1</td>
<td>91 (21)</td>
</tr>
<tr>
<td>3 20 Jul. 2018</td>
<td>IEEE SMC Hiroshima Chapter Special Lecture Prof. M. Suganuma (Tohoku University)</td>
<td>Technical</td>
<td>1</td>
<td>91 (21)</td>
</tr>
<tr>
<td>4 8 Oct. 2019</td>
<td>Special Session on Innovative Computational Intelligence and Real-World Applications in SMC2019</td>
<td>Technical</td>
<td>1</td>
<td>20 (6)</td>
</tr>
<tr>
<td>5 9-10 Nov. 2019</td>
<td>2019 IEEE 11th International Workshop on Computational Intelligence and Applications (IWCLA2019)</td>
<td>Technical</td>
<td>2</td>
<td>43 (17)</td>
</tr>
<tr>
<td>6 9 Nov. 2019</td>
<td>IEEE SMC Hiroshima Chapter Invited Special Talk Prof. H. Akiyama (Fukuoka University)</td>
<td>Technical</td>
<td>1</td>
<td>43 (17)</td>
</tr>
</tbody>
</table>

(* Number of participants of IEEE members)

Membership Communication and Advancement (SMC)

- Growth of chapter membership

<table>
<thead>
<tr>
<th>Membership at last status report submitted</th>
<th>Current Membership</th>
<th>% Growth</th>
</tr>
</thead>
<tbody>
<tr>
<td>59</td>
<td>58</td>
<td>-1.7%</td>
</tr>
</tbody>
</table>

Other detailed activities report of SMC Hiroshima chapter can be found at following website.
http://www.smc-hiroshima.info.hiroshima-cu.ac.jp/eng/

B.3 Professional and Continuing Education Activities

2019 General Assembly of IEEE Hiroshima Section, Jan. 31, 2019 (Hiroshima Garden Palace)

- Attendance: IEEE Members: 21 (letters of attorney: 53)

Administrative Meetings

- The 1st Board of Directors on March 29, 2019 (Hiroshima City University)
  Attendance: Officers and Executive Committee Members: 11
- The 2nd Board of Directors on May 18, 2019 (Okayama Prefectural University)
  Attendance: Officers and Executive Committee Members: 12
- The 3rd Board of Directors on August 31, 2019 (Hiroshima City University)
  Attendance: Officers and Executive Committee Members: 12
● The 4th Board of Directors on Dec. 1, 2019 (Okayama Prefectural University)
Attendance: Officers and Executive Committee Members: 12

MAW2020 Preparation Meeting
● The first meeting for the IEEE Metro Area Workshop (MAW) 2020 to be hosted by the IEEE Hiroshima section on Nov. 22, 2019 (Hiroshima Office Centre)
Attendance: Officers and Executive Committee Members: 4

Lectures and Events
● Section sponsored Technical and Educational Lectures: 6

<table>
<thead>
<tr>
<th>Date</th>
<th>Title</th>
<th>Attendance*</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 31 Jan. 2019</td>
<td><strong>Special Lecture at Hiroshima</strong>&lt;br&gt;Title: 30 years of facing electric and magnetic fields and ...&lt;br&gt;Speaker: Prof. Masashi Hotta (Yamaguchi University)&lt;br&gt;Location: Hiroshima Garden Palace, Hiroshima, Hiroshima, Japan</td>
<td>21 (21)</td>
</tr>
<tr>
<td>2 29 Mar. 2019</td>
<td><strong>Technical Lecture at Hiroshima</strong>&lt;br&gt;Title: A Study on Experimental Evaluation and Modeling of Communication Characteristics in Multirate Wireless LAN Environment&lt;br&gt;Speaker: Prof. Hiroyasu Obata (Hiroshima City University)&lt;br&gt;Location: Hiroshima City University, Hiroshima, Hiroshima, Japan</td>
<td>11 (11)</td>
</tr>
<tr>
<td>3 18 May 2019</td>
<td><strong>Technical Lectures for Students at Okayama</strong>&lt;br&gt;Title: Think about what can be obtained through the organization of a student symposium&lt;br&gt;Speaker: Prof. Masashi Hotta (Yamaguchi University)&lt;br&gt;Location: Okayama Prefectural University, Soja, Okayama, Japan</td>
<td>51 (21)</td>
</tr>
<tr>
<td>4 31 Aug. 2019</td>
<td><strong>Technical Lecture at Hiroshima</strong>&lt;br&gt;Title: Trends in photonics technology supporting ultra-high-speed communication services&lt;br&gt;Speaker: Prof. Hiroji Masuda, Prof. Kokoro Kitamura (Shimane University)&lt;br&gt;Location: Hiroshima City University, Hiroshima, Hiroshima, Japan</td>
<td>12 (12)</td>
</tr>
<tr>
<td>5 30 Nov. 2019</td>
<td><strong>Technical Lecture at Okayama</strong>&lt;br&gt;Title: City disaster ability test of city hall -optimistic thought do not pass&lt;br&gt;Speaker: Mr. Soichi Kataoka (Mayor of Soja City, Okayama Prefecture)&lt;br&gt;Location: Okayama Prefectural University, Soja, Okayama, Japan</td>
<td>148 (15)</td>
</tr>
<tr>
<td>6 30 Nov. - 1 Dec., 2019</td>
<td><strong>Technical Symposium at Okayama</strong>&lt;br&gt;Title: The 21st IEEE Hiroshima Student Symposium (HISS)&lt;br&gt;Location: Okayama Prefectural University, Soja, Okayama, Japan</td>
<td>290 (30)</td>
</tr>
</tbody>
</table>

● Section co-sponsored or supported Technical Events: 4

<table>
<thead>
<tr>
<th>Date</th>
<th>Title</th>
<th>Attendance*</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 8-10 June 2019</td>
<td><strong>Co-sponsored Technical Event</strong> – Organized by ACEEE 2019&lt;br&gt;Organizing Committee&lt;br&gt;Title: The 2nd Asia Conference on Energy and Environment Engineering (ACEEE 2019)&lt;br&gt;Location: TKP Garden City PREMIUM Hiroshima, Hiroshima, Japan</td>
<td>22 (10)</td>
</tr>
<tr>
<td>2 10 July 2019</td>
<td><strong>Co-sponsored Technical Event</strong> – Organized by IEICE Chugoku Section&lt;br&gt;• <strong>Title: 1st Mobile application workshop (Fresh IT Awards 2019)</strong>&lt;br&gt;Location: Hiroshima University, Higashi-Hiroshima, Hiroshima, Japan</td>
<td>88 (20)</td>
</tr>
<tr>
<td></td>
<td><strong>Co-sponsored Technical Event</strong> – Organized by IEICE Chugoku Section&lt;br&gt;• <strong>Title: 2nd Mobile application workshop (Fresh IT Awards 2019)</strong>&lt;br&gt;Location: Hiroshima University, Higashi-Hiroshima, Hiroshima, Japan</td>
<td></td>
</tr>
</tbody>
</table>
**B.4 Students Activities**

**The 21st IEEE Hiroshima Section Student Symposium (HISS)**
In November 30 and December 1, the 21st HISS was held at Okayama Prefectural University, Soja, Okayama, Japan.

The number of attendances for the 21st HISS is 290 (sum of two days).

The contents of this symposium are as follows;

- One keynote lecture
- One presentation from industrial company
- 3 presentations from academic laboratories
- 3 presentation from high-school students
- One get-together meeting
- Technical presentations (Number of Technical Presentations: 146)
- 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: 28
- HISS English Presentation Award: 1
- HISS Best Presentation Award for High School Students: 1
- HISS Excellence Presentation Award for High School Students: 2

(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

(*) indicates Number of IEEE members
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 2019, 5 students have been supported for their presentation.

Total number of Student Branches in Hiroshima Section: 2
List of 2019 Officers
- Yamaguchi University Student Branch (YSB)
  Chair: Yuto TAKAYAMA
  Vice Chair: Yoshiki MAEKAWA
  Secretary: Takahiro AKADA
- Hiroshima Section Student Branch (HSSB)
  Chair: Keisuke ISOMOTO
  Vice Chair: Taisei ITO
  Secretary: Keisuke OKANO

B.5 Awards & Recognition Activities

Award constituted by Hiroshima Section
- The 2019 Hiroshima Section Contribution Award: Prof. Kenji Ishida
- Certificate for Notable Services and Contributions towards the advancement of IEEE and the Engineering Professions: Micron Technology Foundation Inc.
- The 21st HISS Distinguished Contribution Award: 7 students
- The 21st HISS Distinguished Service Award: 38 students

B.6 Communication Activities (Newsletter, Home Page, E-mail etc.)

Section Web site
- http://www.ieee-jp.org/section/hiroshima/En/ (in English)

Section Facebook page
The web page of Hiroshima Section Student Branch
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
● http://www.smc-hiroshima.info.hiroshima-cu.ac.jp/eng/
● http://ieee-jp.org/section/fukuoka/chapter/embwj/
The 21st HISS Web site

PART C - OTHERS

C.1 Special Events
● IEEE Hiroshima Section Student Symposium (HISS)
HISS is the one of unique event in IEEE Hiroshima Section whose purpose is to support the growth of students with independence and 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 with 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 Hiroshima Section, Micron Foundation, some sections of domestic technical societies, and presenters’ submission fee.
The IEEE Hiroshima Section hope to grow this HISS to surrounding sections and it to be the one of unique event in Japan or R10 in near future.

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 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.
● High voting rate in the 2019 IEEE Annual Elections
In the 2019 IEEE Annual Elections, we had aggressively encouraged our members to vote. As a result, the voting percentage in the Hiroshima Section had been the 1st highest amongst 58 sections in Region 10.

PART D - GOALS AND PLANS

D.1 Continuation of project/activity in progress and their implementation plans
(1) General Assembly
Annual meeting plan to hold at Hiroshima on January 28, 2020.
(2) Board of Directors
Four committee meetings plan to hold.
(3) The 22nd IEEE Hiroshima Student Symposium (HISS)
The 22nd HISS plan to hold at Hiroshima University, Hiroshima, Japan on November, 2020.
(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.

(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 22nd Hiroshima Student Symposium (HISS) at Hiroshima.
- We try to find the system for active communications between academic and company members.

**D.3. Standing Committees Activities**

(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

(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.

(3) **Fellow Nomination Committee**
We encourage the members to upgrade their higher grades membership.

(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.