2017 IEEE Hiroshima Section Activity Report

PART A - SECTION SUMMARY

A.1 Executive Summary

Section Highlights

- Held 12 sponsored, co-sponsored, and supported Technical Events (Lectures, Conference, Symposium, Contest and Seminars), and 5 Administrative Meetings including the General Assembly. (Details are in the Section B.3)
- Held the 19th IEEE Hiroshima Student Symposium (HISS). (Details are in the Section B.4)

2017 Section Executive Committee Member List

- Officers [2017-2018]:
  - Chair: Isao NAKANISHI (Tottori University)
    nakanishi@eecs.tottori-u.ac.jp
  - Vice-Chair: Kazuhiro UEHARA (Okayama University)
    uehara@okayama-u.ac.jp
  - Secretary: Akimitsu KANZAKI (Shimane University)
    kanzaki@cis.shimane-u.ac.jp
  - Treasurer: Hiroyasu OBATA (Hiroshima City University)
    obata@hiroshima-cu.ac.jp

- Executive Committee Members [2017-2018]:
  - Tetsushi KOIDE (Hiroshima University)
    koide@hiroshima-u.ac.jp
  - Masaru FUKUSHI (Yamaguchi University)
    mfukushi@yamaguchi-u.ac.jp
  - Nozomu NANATO (Okayama University)
    nanato@okayama-u.ac.jp
  - Yasuhiro TAJIMA (Okayama Prefectural University)
    tajima@cse.oka-pu.ac.jp
  - Chisa TAKANO (Hiroshima City University)
    takano@hiroshima-cu.ac.jp
  - Takayoshi YOKOTA (Tottori University)
    yokota@ike.tottori-u.ac.jp
  - Fumihito ITO (Shimane University)
    fumi@ecs.shimane-u.ac.jp
  - Takashi YAMANOUE (Fukuyama University)
    yamanoue@fiip.fukuyama-u.ac.jp
  - Nobuo FUNABIKI (Okayama University)
    funabiki@okayama-u.ac.jp

[Additional Posts]
- [Student Committee Chair]
- [Education Activities Chair]
- [Chapter Promotion Committee Chair]
- [Women in Engineering Committee Chair]
- [Industry Relation Committee Chair]
- [Membership Development Committee Chair]
- [Fellow Committee Chair]
## A.2 2017 Financial Report

<table>
<thead>
<tr>
<th>Income</th>
<th>(Japanese Yen)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Balance carried forward</td>
<td>1,236,546</td>
</tr>
<tr>
<td>Section Assessment</td>
<td>1,086,920</td>
</tr>
<tr>
<td>Section Rebate</td>
<td>496,431</td>
</tr>
<tr>
<td>Interest</td>
<td>12</td>
</tr>
<tr>
<td>Student Rebate</td>
<td>6,349</td>
</tr>
<tr>
<td>Support for HISS from Foundation</td>
<td>567,500</td>
</tr>
<tr>
<td>Balance carried forward of HISS</td>
<td>1,963</td>
</tr>
<tr>
<td>Total of Income in Section Account</td>
<td>3,395,721</td>
</tr>
<tr>
<td>Income of HISS (different account from section)</td>
<td>756,205</td>
</tr>
<tr>
<td>Sum of Total of Income in Section Account and Income of HISS</td>
<td>4,151,926</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Expense</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Section Assessment</td>
<td>977,978</td>
</tr>
<tr>
<td>Chapter Rebate for SMC28 ($275.00-)</td>
<td>30,467</td>
</tr>
<tr>
<td>Expense for Administrative Meetings</td>
<td>84,320</td>
</tr>
<tr>
<td>Expense for Technical Meetings</td>
<td>30,220</td>
</tr>
<tr>
<td>Section Activities</td>
<td>76,240</td>
</tr>
<tr>
<td>Support for Secondary Delegate of Section Congress</td>
<td>127,898</td>
</tr>
<tr>
<td>Postage &amp; Supplies</td>
<td>1,310</td>
</tr>
<tr>
<td>Stationery &amp; Bank charge</td>
<td>43,739</td>
</tr>
<tr>
<td>Reserve for next year</td>
<td>1,336,049</td>
</tr>
<tr>
<td>Support for HISS</td>
<td>687,500</td>
</tr>
<tr>
<td>Total of Expense in Section Account</td>
<td>3,395,721</td>
</tr>
<tr>
<td>Expense of HISS (different account from section)</td>
<td>756,205</td>
</tr>
<tr>
<td>Sum of Total of Expense in Section Account and Expense of HISS</td>
<td>4,151,926</td>
</tr>
</tbody>
</table>

End-of-Year Balance 0

### PART B - ORGANIZATIONAL ACTIVITIES

#### B.1 Membership Development Activities
- Number of Members@ Dec. 2017: 509 [-10 from Dec. 2016]
- Number of Members@ Dec. 2016: 519 [+0 from Dec. 2015]
- Number of Members@ Dec. 2015: 519

![Transition of number of members in Hiroshima Section.](image)

#### 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 [2017-2018]
Chair: Akira HARA (Hiroshima City University)
Vice Chair: Tomohiro HAYASHIDA (Hiroshima University)
Secretary: Keiichi TAMURA (Hiroshima City University)
Secretary: Jun-ichi KUSHIDA (Hiroshima City University)
Treasurer: Daisuke HIROTANI (Prefectural University of Hiroshima)

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 participants (*)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 21 Mar. 2017</td>
<td>Cooperation for 18th Annual Meeting of Self-Organizing Maps in JAPAN 2017</td>
<td>Technical</td>
<td>20 (0)</td>
</tr>
<tr>
<td>2 22 Jul. 2017</td>
<td>2017 IEEE SMC Hiroshima Chapter Young Researchers' Workshop</td>
<td>Technical</td>
<td>82 (25)</td>
</tr>
<tr>
<td>3 22 Jul. 2017</td>
<td>IEEE SMC Hiroshima Chapter Special Lecture Prof. T. Yamakawa</td>
<td>Technical</td>
<td>82 (25)</td>
</tr>
<tr>
<td>4 25 Sep. 2017</td>
<td>IEEE SMC Hiroshima Chapter Special Lecture Prof. S. Mabu</td>
<td>Technical</td>
<td>14 (10)</td>
</tr>
<tr>
<td>5 6 Oct. 2017</td>
<td>Special Session on Innovative Technologies and Applications in Computer Intelligence in SMC2017</td>
<td>Technical</td>
<td>16 (3)</td>
</tr>
<tr>
<td>6 11-12 Nov. 2017</td>
<td>2017 IEEE 10th International Workshop on Computational Intelligence and Applications (IWCIA)</td>
<td>Technical</td>
<td>58 (35)</td>
</tr>
<tr>
<td>7 11 Nov. 2017</td>
<td>IEEE SMC Hiroshima Chapter Invited Special Talk Prof. Y. Hoshino</td>
<td>Technical</td>
<td>53 (31)</td>
</tr>
</tbody>
</table>

(* Number of participants of IEEE members)

Educational Activities (SMC)
An educational program offering at least one tutorial, short course, lecture series, or other activity directly related to the tutorial education of its 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>66</td>
<td>58</td>
<td>-13.8%</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

2017 General Assembly of IEEE Hiroshima Section, Jan. 27, 2017 (Hiroshima Garden Palace)
Attendance: IEEE Members: 13 (letters of attorney: 43)

Administrative Meetings
- The 1st Board of Directors on April 10, 2017 (Hiroshima City University)
  Attendance: Officers and Executive Committee Members: 9
- The 2nd Board of Directors on June 3, 2017 (Shimane University)
  Attendance: Officers and Executive Committee Members: 11
- The 3rd Board of Directors on Sept. 2, 2017 (Yamaguchi University)
  Attendance: Officers and Executive Committee Members: 9
- The 4th Board of Directors on Dec. 3, 2017 (Shimane University)
  Attendance: Officers and Executive Committee Members: 11
### Lectures and Events

#### Section sponsored Technical and Educational Lectures: 5

<table>
<thead>
<tr>
<th>Date</th>
<th>Title</th>
<th>Attendance*</th>
</tr>
</thead>
</table>
| 1 27 Jan. 2017 | **Special Lecture at Hiroshima**  
Title: Academic education through the experiences in society and research activities -IEEE Hiroshima section student symposium and field experiments of mobile ad hoc networks  
Speaker: Prof. Yoshiaki Kakuda (Shimane University)  
Location: Hiroshima Garden Palace, Hiroshima, Hiroshima, Japan | 12 (11)  |
| 2 3 June 2017 | **Technical Lectures for Students at Shimane**  
Title: Think about the valuable abilities obtained through the organization of a student symposium  
Speaker: Prof. Masashi Hotta (Yamaguchi University)  
Location: Shimane University, Matsue, Shimane, Japan | 43 (9)  |
| 3 2 Sept. 2017 | **Technical Lecture at Yamaguchi**  
Title: Activities and educational effects of YSB (Yamaguchi University Student Branch)  
Speaker: Dr. Hiroaki Yamada (Yamaguchi University)  
Location: Yamaguchi University, Ube, Yamaguchi, Japan | 10 (10)  |
| 4 2 Dec. 2017 | **Technical Symposium at Shimane**  
Title: Innovation to be embodied – Human Development in the era of revolutionary change  
Speaker: Ms. Kana Takasu (Shimane University)  
Location: Shimane University, Matsue, Shimane, Japan | 109 (20)  |
| 5 2-3 Dec. 2017 | **Technical Symposium at Shimane**  
Title: The 19th IEEE Hiroshima Student Symposium (HISS)  
Location: Shimane University, Matsue, Shimane, Japan | 239 (20)  |

#### Section co-sponsored or supported Technical Events: 7

<table>
<thead>
<tr>
<th>Date</th>
<th>Title</th>
<th>Attendance*</th>
</tr>
</thead>
</table>
| 1 2 Mar. 2017 | **Co-sponsored Technical Event** – Organized by Research Institute for Nanodevice and Bio Systems, Hiroshima University  
Title: International Workshop on Nanodevice Technologies 2017  
Location: Hiroshima University, Higashi Hiroshima, Hiroshima, Japan | 100  |
| 2 11 Mar. 2017 | **Co-sponsored Technical Event** – Organized by Hiroshima City University  
Title: Hiroshima BioMedical Engineering School  
Location: Hiroshima City University, Hiroshima, Hiroshima, Japan | 82  |
| 3 6 Spr. 2017 | **Co-sponsored Technical Lecture** – Organized by Hiroshima University of Economics  
Title: Development of Cross-Language Information Retrieval  
Speaker: Dr. Agus Zainal Arifin (ITS, Indonesia / National Council for Curriculum at Association of Indonesian Higher Education in Informatics and Computer Sciences)  
Location: Hiroshima University of Economics, Hiroshima, Japan | 6  |
| 4 12-13 May 2017 | **Co-sponsored Technical Event** – Organized by ICSREE Organizing Committee  
Title: International Conference on Sustainable and Renewable Energy Engineering (ICSREE 2017)  
Location: Hiroshima YMCA, Hiroshima, Hiroshima, Japan | 40  |
| 5 7-10 Aug. 2017 | **Supported Technical Event** – Organized by IPSJ SIG-CVIM  
Title: Meeting on Image Recognition and Understanding (MIRU 2017)  
Location: International Conference Center Hiroshima, Hiroshima, Hiroshima, Japan | 660 (250)  |
| 6 10 Nov. 2017 | **Co-sponsored Technical Lecture** – Organized by IEICE Chugoku Section  
Title: Applications and key technologies of 5G mobile communication systems  
Speaker: Prof. Yukitoshi Sanada (Keio University)  
Location: Tottori University, Tottori, Tottori, Japan | 93 (7)  |
| 7 1 Dec. 2017 | **Co-sponsored Technical Lecture** – Organized by IEICE Chugoku Section  
Title: Current state of IoT technologies and commercial systems  
Speaker: Mr. Hiroaki Hata (NTT Com Engineering Corporation)  
Location: Location: Tottori University, Tottori, Tottori, Japan | 121 (11)  |

*() indicates Number of IEEE members
B.4 Students Activities

The 19th IEEE Hiroshima Section Student Symposium (HISS)
In December 2 and 3, the 19th HISS was held at Shimane University, Matsue, Shimane, Japan. The number of attendance for the 19th HISS is 239 (sum of two days). The contents of this symposium are as follows;

- One keynote lecture
- 2 presentations from industrial company
- 2 presentations from academic laboratories
- One get-together meeting for the students
- Technical presentations (Number of Technical Presentations: 85)
- 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: 19
      HISS English Presentation Award: 1
      HISS Best Presentation Award for High School Students: 1
      HISS Excellence Presentation Award for High School Students: 3
  -(b) Selected by the vote of attendances.
      HISS Best Presentation Award: 1
      Micron Award: 1
      HISS Good Presentation Award: 2

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.

Total number of Student Branches in Hiroshima Section: 1
- Yamaguchi University Student Branch (YSB)
  List of 2017 Officers of YSB
  Chair: Hisahiro YAMANAKA
  Vice Chair: Yusaku SHIMIZU
  Treasurer & Secretary: Yuki OKAMOTO

Number of Student Branches formed in the current year: 0

B.5 Awards & Recognition Activities

Award constituted by Hiroshima Section
- The 2017 Hiroshima Section Contribution Award: Prof. Masahito HIRAKAWA
- The 19th HISS Distinguished Contribution Award: 31 students
- The 19th HISS Distinguished Service Award: 12 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 Yamaguchi University Student Branch

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 19th 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, Kayamori Foundation of Information Science Advancement, 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 2017 IEEE Annual Elections
In the 2017 IEEE Annual Elections, we had aggressively encouraged our members to vote. As a result, the voting percentage in the Hiroshima Section had been the 2nd highest amongst 57 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 31, 2018.
(2) Board of Directors
   - Four committee meetings plan to hold.
(3) The 20th IEEE Hiroshima Student Symposium (HISS)
   - The 20th HISS plan to hold at Tottori University, Tottori, Japan on November, 2018.
(4) Hiroshima Sections’ 20th Anniversary Celebration
   - The Sections’ 20th Anniversary Celebration plan to hold at Tottori, Japan on November, 2018.
(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 20th Hiroshima Student Symposium (HISS) at Tottori.
- 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 grade 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.