2015 IEEE Hiroshima Section Activity Report

PART A - SECTION SUMMARY

A.1 Executive Summary

- **Section Highlights**
  - Held 11 sponsored, co-sponsored, and supported Technical Events (Lectures, Contest, and Seminars), and 5 Administrative Meetings including the General Assembly. (Details are in the Section B.3)
  - Held the 17th IEEE Hiroshima Student Symposium (HISS). (Details are in the Section B.4)

- **List of 2015 Section Executive Committee Members and Officers**
  - **Officers [2015-2016]:**
    - Chair: Nobuo FUNABIKI (Okayama University)
      funabiki@okayama-u.ac.jp
    - Vice-Chair: Yoshio IWAI (Tottori University)
      iwai@ike.tottori-u.ac.jp
    - Secretary: Yoshinobu TAMURA (Yamaguchi University)
      tamura@yamaguchi-u.ac.jp
    - Treasurer: Yutaka SASAKI (Hiroshima University)
      yusasaki@hiroshima-u.ac.jp
  - **Executive Committee Members [2015-2016]:**
    - Akimitsu KANZAKI (Shimane University)
      kanzaki@cis.shimane-u.ac.jp
    - Takamaro KIKKAWA (Hiroshima University)
      kikkawat@hiroshima-u.ac.jp
    - Mitsuyoshi KISHIHARA (Okayama Prefectural University)
      kishihara@c.oka-pu.ac.jp
    - Kazuhiro FUJIMORI (Okayama University)
      fujimori@okayama-u.ac.jp
    - Kazushi MIMURA (Hiroshima City University)
      mimura@hiroshima-cu.ac.jp
    - Hiroaki YAMADA (Yamaguchi University)
      hiro-ymd@yamaguchi-u.ac.jp
    - Shigang LI (Hiroshima City University)
      shigangli@hiroshima-cu.ac.jp
    - Sang-Seok LEE (Tottori University)
      sslee@ele.tottori-u.ac.jp
    - Takashi YAMANOUE (Fukuyama University)
      yamanoue@fuip.fukuyama-u.ac.jp
    - Kenji ISHIDA (Hiroshima City University)
      ishida@hiroshima-cu.ac.jp
### A.2 2015 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>1,006,391</td>
</tr>
<tr>
<td>Section Assessment</td>
<td>1,153,640</td>
</tr>
<tr>
<td>Section Rebate</td>
<td>536,853</td>
</tr>
<tr>
<td>Section Support from IEEE Japan Council</td>
<td>240,000</td>
</tr>
<tr>
<td>Voting Incentive</td>
<td>21,556</td>
</tr>
<tr>
<td>Interest</td>
<td>108</td>
</tr>
<tr>
<td><strong>Total of Income</strong></td>
<td>2,958,548</td>
</tr>
<tr>
<td><strong>Expense</strong></td>
<td></td>
</tr>
<tr>
<td>Section Assessment</td>
<td>1,037,378</td>
</tr>
<tr>
<td>Chapter Rebate for SMC28 ($275.00-)</td>
<td>32,494</td>
</tr>
<tr>
<td>Expense for Administrative Meetings</td>
<td>26,400</td>
</tr>
<tr>
<td>Expense for Technical Meetings</td>
<td>151,830</td>
</tr>
<tr>
<td>Support for HISS</td>
<td>500,000</td>
</tr>
<tr>
<td>Section Activities</td>
<td>45,554</td>
</tr>
<tr>
<td>Postage &amp; Supplies</td>
<td>2,701</td>
</tr>
<tr>
<td>Stationery &amp; Bank charge</td>
<td>4,644</td>
</tr>
<tr>
<td>Reserve for next year</td>
<td>1,157,547</td>
</tr>
<tr>
<td><strong>Total of Expense</strong></td>
<td>2,958,548</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. 2015: 519 [+ 9 from Dec. 2014]
- Number of Members@ Dec. 2014: 510 [- 4 from Dec. 2013]
- Number of Members@ Dec. 2013: 514

* Excepting the number of Associate Members

Transition of number of members in Hiroshima Section.
B.2 Chapter Activities

- Total number of Chapters in the Hiroshima Section; 2
  a) Fukuoka/Hiroshima/Shikoku (West Japan) Chapter, EMB18
     Activities of EMB West Japan Chapter; Please refer the Fukuoka Section.
  b) Hiroshima Section Chapter, [SMC Hiroshima Chapter], SMC28
     [Activities of SMC Hiroshima Section Chapter]
     ○ List of Chapter Officers of SMC [2015-2016]
       Chair: Takumi Akira HARA (Hiroshima City University)
       Vice Chair: Tomohiro HAYASHIDA (Hiroshima University)
       Secretary: Tetsuya SHIGEYASU (Prefectural University of Hiroshima)
       Treasurer: Jun-ichi KUSHIDA (Hiroshima City University)

B.2-b)-I. 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>30-Jan-2015</td>
<td>Technical co-sponsorship for Hiroshima IT Fusion Forum Special Lecture (1) Dr. H. Kawanaka</td>
<td>Technical</td>
<td>20(6)</td>
</tr>
<tr>
<td>30-Jan-2015</td>
<td>Technical co-sponsorship for Hiroshima IT Fusion Forum Special Lecture (2) Prof. T. Ichimura Mr. S. Kamada</td>
<td>Technical</td>
<td>20(6)</td>
</tr>
<tr>
<td>18-Jul-2015</td>
<td>2015 IEEE SMC Hiroshima Chapter Young Researchers' Workshop</td>
<td>Technical</td>
<td>73(30)</td>
</tr>
<tr>
<td>18-Jul-2015</td>
<td>IEEE SMC Hiroshima Chapter Special Lecture Prof. H. Wakuya</td>
<td>Technical</td>
<td>73(30)</td>
</tr>
<tr>
<td>11-Oct-2015</td>
<td>Special Session on Emerging Technologies and Applications in Computer Intelligence in SMC2015</td>
<td>Technical</td>
<td>15(15)</td>
</tr>
<tr>
<td>6-Nov-2015</td>
<td>2015 IEEE 8th International Workshop on Computational Intelligence and Applications (IW CIA)</td>
<td>Technical</td>
<td>37(29)</td>
</tr>
<tr>
<td>7-Nov-2015</td>
<td>IEEE SMC Hiroshima Chapter Invited Special Talk Prof. Y. Masutani</td>
<td>Technical</td>
<td>34(28)</td>
</tr>
<tr>
<td>18-Dec-2015</td>
<td>Technical co-sponsorship for 8th SICE Symposium on Computational Intelligence</td>
<td>Technical</td>
<td>44(10)</td>
</tr>
</tbody>
</table>

(* Number of participants of IEEE members

B.2-b)-II. 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.

B.2-b)-III. Membership Communication and Advancement (SMC)

<table>
<thead>
<tr>
<th>Membership at last status report submitted</th>
<th>Current Membership</th>
<th>% Growth</th>
</tr>
</thead>
<tbody>
<tr>
<td>80</td>
<td>68</td>
<td>-15%</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

- 2015 General Assembly of IEEE Hiroshima Section, Jan. 27, 2015 (Hiroshima Garden Palace)
  Attendance: IEEE Members: 18 (letters of attorney; 47)
- Administrative Meetings; 4
  (1) The 1st Board of Directors on April 17, 2015 (Okayama University)
Lectures and Events

(1) Section sponsored Technical and Educational Lectures; 6

<table>
<thead>
<tr>
<th>Date</th>
<th>Title</th>
<th>Attendance*</th>
</tr>
</thead>
</table>
| 27 Jan., 2015 | **Special Lecture at Hiroshima**  
Title: Integrated Circuits: The Past and the future  
Speaker: Emeritus Prof. Hideo Sunami (Hiroshima University)  
Location: Hiroshima Garden Palace, Hiroshima, Hiroshima, Japan | 24(19)      |
| 17 Apr., 2015 | **Technical Lectures at Okayama**  
Title: What is Academic Globalization in YU?  
Speaker: Prof. Masashi Hotta (Yamaguchi University)  
Location: Okayama University, Okayama, Okayama, Japan | 11(11)      |
| 30 May, 2015  | **Technical Lectures for Students at Okayama**  
Title: Easily, Rapidly and Inexpensively to Manage Academic Conferences  
Speaker: Prof. Satoshi Taoka (Hiroshima Univ.)  
Location: Okayama University, Okayama, Okayama, Japan | 38(9)       |
| 28 Aug., 2015 | **Technical Lectures at Yamaguchi**  
Title: Noninvasive Measurement Technique of Brain Activity and Its Application to Human-Machine Interfaces Design  
Speaker: Prof. Keiichi Watanuki (Saitama University)  
Location: Yamaguchi University, Ube, Yamaguchi, Japan | 13(12)      |
| 21 Nov., 2015 | **Technical Lecture at Okayama**  
Title: Cross-Cultural Communication  
Speaker: Mr. Matsuchiyo Ota, Benesse InfoShell Co., Ltd  
Location: Okayama University, Okayama, Okayama, Japan | 329(37)     |
| 21-22 Nov., 2015 | **Technical Symposium at Okayama**  
Title: The 17th IEEE Hiroshima Student Symposium (HISS)  
Location: Okayama University, Okayama, Okayama, Japan | 329(37)     |

(2) Section co-sponsored or supported Technical Events; 5

<table>
<thead>
<tr>
<th>Date</th>
<th>Title</th>
<th>Attendance*</th>
</tr>
</thead>
</table>
| 3 Mar., 2015 | **Co-sponsored Technical Event** - Organized by Research Institute for Nanodevice and Bio Systems, Hiroshima University  
Title: International Workshop on Nanodevice Technologies 2015  
Location: Hiroshima University, Higashi Hiroshima, Hiroshima, Japan | 139(70)     |
| 20 Mar., 2015 | **Sponsored Technical Lectures** - Organized by Hiroshima City University  
Title: Custom Computing : New Paradigm for Highly-Efficient High-Performance Computation  
Speaker: Prof. Kentaro Sano (Tohoku University)  
Location: Hiroshima City University, Hiroshima, Hiroshima, Japan | 18(11)      |
| 18 Aug., 2015 | **Co-sponsored Technical Lectures** - Organized by Chugoku Branch of IEEJ  
Title: Renewable Energy Effects on Egyptian Distribution Network  
Speaker: Prof. Abdalla Ibrahim, Aswan University, Egypt  
Location: Hiroshima University, Higashi-Hiroshima, Hiroshima, Japan | 16(10)      |
| 18 Aug., 2015 | **Sponsored Technical Lectures** - Organized by Chugoku Branch of IEEJ | 16(10)      |
| Title: New Trend in Power System Frequency Control  
| Speaker: Prof. Hassan Bevrani, University of Kurdistan, Iran  
| Location: Hiroshima University, Higashi-Hiroshima, Hiroshima, Japan  
| **5**  
| **14 Dec., 2015**  
| **Co-sponsored Technical Lectures** - Organized by Hiroshima City University  
| Title: Scalable Graphical Security Models and Their Applications  
| Speaker: Dr. Dong-Seong Kim (University of Canterbury, New Zealand)  
| Location: Hiroshima City University, Hiroshima, Hiroshima, Japan  
| **15(5)**  

*( ) indicates Number of IEEE members

**B.4 Students Activities**

- The 17th IEEE Hiroshima Student Symposium (HISS)  
  In November 21 and 22, the 17th HISS was held at Okayama University, Okayama, Okayama, Japan. The number of attendance for the 17th HISS is about 500 (sum of two days). The contents of this symposium are as follows;
  - One keynote lecture  
  - 1 presentation from industrial company  
  - 6 presentations from academic laboratories  
  - One get together meeting for the students  
  - Technical presentations (Number of Technical Presentations: 166)  
  - 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: 20  
      - HISS English Presentation Award; 1  
      - HISS Best Presentation Award for High School Students; 1  
      - HISS Excellence Presentation Award for High School Students; 2  
      - HISS Good Presentation Award for High School Students; 3  
    (b) Selected by the vote of attendances.
      - HISS Best Presentation Award; 1  
      - HISS Good Presentation Award; 4

- Recruitment of Student Members
  - Student members who joined HISS steering committee deserve additional prizes with their contribution awards  
  - Establishment of encouragement system for presentation of the student members on the domestic conference.  
  - Amend the supporting system for the presentation of the student members on the international symposium or conference. Such active IEEE student members deserve to receive grant (Max: 10,000Yen).

- Total Number of Student Branches in Hiroshima Section: 1  
  - Yamaguchi University Student Branch (YSB)
    - List of 2015 officers of YSB
      - Chair: Kurachi Shinya  
      - Vice-chair: Murata Masanari  
      - Treasurer & Secretary: Katamoto Yuta

- Number of Student Branches Formed in the Current Year: 0

**B.5 Awards & Recognition Activities**

- Award Constituted by the Section
  - The 17th HISS Distinguished Contribution Award: 19 students  
  - The 17th HISS Distinguished Service Award: 27 students
B.6 Communication Activities (Newsletter, Home Page, E-mail etc.)

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

- The web page of Yamaguchi University Student Branch:
  - [http://www.ieee-jp.org/section/hiroshima/YSB/](http://www.ieee-jp.org/section/hiroshima/YSB/) (will be appeared soon)

- The web page of IEEE SMC chapter in Hiroshima Section:

- The web page of IEEE EMBS West Japan Joint Chapter:
  - [http://www.ieee-jp.org/section/fukuoka/embwj/](http://www.ieee-jp.org/section/fukuoka/embwj/)

- The 17th HISS website (in Japanese):
  - [http://hiss17th.sakura.ne.jp/](http://hiss17th.sakura.ne.jp/)

PART C - OTHERS

C.1 Relationship with National Societies

- 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 IEEJ (The Institute of Electrical Engineers of Japan) and so on, through their local branches around the Hiroshima Section, and also Universities.

C.2 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 Japan Council, Hiroshima Section, Electric Technology Research Foundation of Chugoku, 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.

## 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, 2016.

2. **Board of Directors**
   - Four committee meetings plan to hold.

3. **The 18th IEEE Hiroshima Student Symposium (HISS)**
   - The 18th HISS plan to hold at Yamaguchi University, Yamaguchi, Japan on November, 2016.

4. **Technical Lectures**
   - Planning at least 5 Sponsored Technical Lectures and at least 5 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 18th Hiroshima Student Symposium (HISS) at Yamaguchi.
- 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 Activity Committee**
   - Promotion for the use of a grant (Max.: 10,000JPY) to active IEEE student members. We encourage the student members to present their work at the domestic and/or international symposia.
   - 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.