

2016 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 18th IEEE Hiroshima Student Symposium (HISS). (Details are in the Section B.4)
- List of 2016 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)
[Additional Post: Fellow Committee Chair]
kanzaki@cis.shimane-u.ac.jp
 - Takamaro KIKKAWA (Hiroshima University)
[Additional Post: Industry Relation Committee Chair]
kikkawat@hiroshima-u.ac.jp
 - Mitsuyoshi KISHIHARA (Okayama Prefectural University)
[Additional Post: Student Committee Chair]
kisihara@c.oka-pu.ac.jp
 - Kazuhiro FUJIMORI (Okayama University)
[Additional Post: Educational Activities Chair]
fujimori@okayama-u.ac.jp
 - Kazushi MIMURA (Hiroshima City University)
[Additional Post: Student Committee Chair]
mimura@hiroshima-cu.ac.jp
 - Hiroaki YAMADA (Yamaguchi University)
[Additional Post: Membership Development Committee Chair]
hiro-ymd@yamaguchi-u.ac.jp
 - Shigang LI (Hiroshima City University)
[Additional Post: Chapter Promotion Committee Chair]
shigangli@hiroshima-cu.ac.jp
 - Sang-Seok LEE (Tottori University)
[Additional Post: Award Committee Chair]
sslee@ele.tottori-u.ac.jp
 - Takashi YAMANOUE (Fukuyama University)
[Additional Post: Chapter Promotion Committee Chair]
yamanoue@fuip.fukuyama-u.ac.jp
 - Kenji ISHIDA (Hiroshima City University)
[Past Chair, Additional Post: Women in Engineering Committee Chair]
ishida@hiroshima-cu.ac.jp

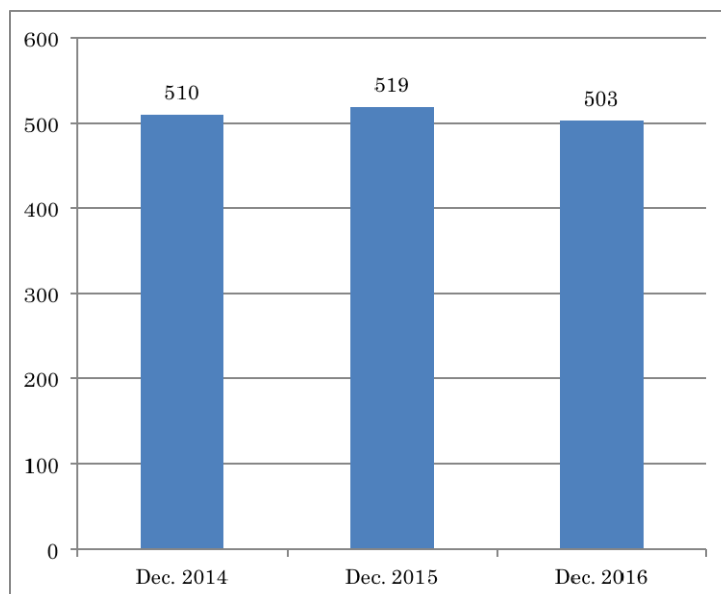
A.2 2016 Financial Report

		(Japanese Yen)
Income	Balance carried forward	1,157,547
	Section Assessment	1,013,138
	Section Rebate	448,499
	Section Support from IEEE Japan Council	300,000
	Interest	109
	Total of Income	2,919,293
Expense	Section Assessment	830,323
	Chapter Rebate for SMC28 (\$275.00-)	27,673
	Expense for Administrative Meetings	50,698
	Expense for Technical Meetings	56,610
	Support for HISS	560,000
	Section Activities	124,662
	Postage & Supplies	3,760
	Stationery & Bank charge	29,021
	Reserve for next year	1,236,546
	Total of Expense	2,919,293
End-of-Year Balance		0

PART B - ORGANIZATIONAL ACTIVITIES

B.1 Membership Development Activities

- Number of Members@ Dec. 2016: 503 [- 16 from Dec. 2015]
 - Number of Members@ Dec. 2015: 519 [+ 9 from Dec. 2014]
- Number of Members@ Dec. 2014: 510
- * 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

	Meeting date	Title	Type	Number of participants (*)
1	6-Mar-2016	Cooperation for 17th Annual Meeting of Self-Organizing Maps in JAPAN 2016	Technical	23(2)
2	29-Mar-2016	IEEE SMC Hiroshima Chapter Special Lecture 1st speaker: Prof. S. Sekizaki 2nd speaker: Prof. T. Ogawa	Technical	17(14)
3	16-Jul-2016	2016 IEEE SMC Hiroshima Chapter Young Researchers' Workshop	Technical	72(30)
4	16-Jul-2016	IEEE SMC Hiroshima Chapter Special Lecture Prof. Y. Teranishi	Technical	72(30)
5	11-Oct-2016	Workshop on Innovative Computational Intelligence, Learning Representation of Data, and Industrial Applications	Technical	30(6)
6	5-Nov-2016	2016 IEEE 9th International Workshop on Computational Intelligence and Applications (IWCIA)	Technical	28(20)
7	5-Nov-2016	IEEE SMC Hiroshima Chapter Invited Special Talk Prof. Y. Tanaka	Technical	28(20)
8	22-Dec-2016	IEEE SMC Hiroshima Chapter Special Lecture Prof. T. Tateyama	Technical	14(7)

(* 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)

Growth of chapter membership

Membership at last status report submitted	Current Membership	% Growth
68	66	-3%

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

- 2016 General Assembly of IEEE Hiroshima Section, Jan. 28, 2016 (Hiroshima Garden Palace)
Attendance: IEEE Members: 10 (letters of attorney; 67)
- Administrative Meetings; 4
 - (1) The 1st Board of Directors on April 14, 2016 (Matsue Terrsa)
Attendance: Officers and Executive Committee Members: 10

- (2) The 2nd Board of Directors on May 22, 2016 (Yamaguchi University)
Attendance: Officers and Executive Committee Members: 9
- (3) The 3rd Board of Directors on Aug. 22, 2016 (Okayama University)
Attendance: Officers and Executive Committee Members: 8
- (4) The 4th Board of Directors on Nov. 19, 2016 (Yamaguchi University)
Attendance: Officers and Executive Committee Members: 9

➤ Lectures and Events

(1) Section sponsored Technical and Educational Lectures; 7

	Date	Title	Attendance*
1	28 Jan., 2016	Special Lecture at Hiroshima Title: Device Reliability and Characterization Speaker: Prof. Tsuchiya Toshiaki (Shimane University) Location: Hiroshima Garden Palace, Hiroshima, Hiroshima, Japan	9(9)
2	14 Apr., 2016	Technical Lectures at Okayama Title: Latest Trends from a Payment Division as Financier Speaker: Mr. Keiji Minami (Sony Payment Services Inc.) Location: Okayama University, Okayama, Okayama, Japan	10(10)
3	22 May, 2016	Technical Lectures for Students at Yamaguchi Title: What should you do in the IEEE Hiroshima Section Student Symposium? Speaker: Prof. Masashi Hotta (Yamaguchi Univ.) Location: Yamaguchi University, Ube, Yamaguchi, Japan	52(10)
4	22 Aug., 2016	Technical Lecture at Okayama Title: Electronic Craftsman of Microwave Technology Speaker: Mr. Yukihiro Takeuchi, Sanyo Electronic Industries Co.,Ltd. and AI Electronics Ltd. Location: Okayama University, Okayama, Okayama, Japan	24(8)
5	16 Nov., 2016	Technical Lecture at Okayama Title: Realistic communication -Network Utilization of Five Senses- Speaker: Prof. Yutaka Ishibashi (Nagoya Institute of Technology) Location: Okayama University, Okayama, Okayama, Japan	56(4)
6	19 Nov., 2016	Technical Symposium at Yamaguchi Title: Diversity for Accelerating Innovation Speaker: Prof. Yuko Hayashi (Yamaguchi University Management of Technology) Location: Yamaguchi University, Ube, Yamaguchi, Japan	224(22)
7	19-20 Nov., 2016	Technical Symposium at Yamaguchi Title: The 18th IEEE Hiroshima Student Symposium (HISS) Location: Yamaguchi University, Ube, Yamaguchi, Japan	416(44)

(2) Section co-sponsored or supported Technical Events; 4

1	2 Mar, 2016	Co-sponsored Technical Event - Organized by Research Institute for Nanodevice and Bio Systems, Hiroshima University Title: International Workshop on Nanodevice Technologies 2016 Location: Hiroshima University, Higashi Hiroshima, Hiroshima, Japan	60(35)
2	1 July, 2016	Sponsored Technical Lectures - Organized by Hiroshima City University Title: Monitorology and Big Data in the Age of Data Analytics Speaker: Prof. Miroslaw Malek, Universita della Svizzera italiana Location: Hiroshima City University, Hiroshima, Hiroshima, Japan	30(7)
3	8 Apr., 2016	Co-sponsored Technical Lectures - Organized by Hiroshima City University Title: The Time-Triggered Architecture Speaker: Em.Prof. Dr. Hermann Kopetz (Vienna University of Technology)	22(7)

		Location: Hiroshima City University, Hiroshima, Hiroshima, Japan	
4	8 Apr., 2016	Co-sponsored Technical Lectures - Organized by Hiroshima City University Title: Perspective on the Realization of Brainware LSI Based on Stochastic Computation Speaker: Prof. Naoya Onizawa (Tohoku Univ.) Location: Hiroshima City University, Hiroshima, Hiroshima, Japan	27(6)

*() indicates Number of IEEE members

B.4 Students Activities

- The 18th IEEE Hiroshima Student Symposium (HISS)

In November 19 and 20, the 18th HISS was held at Yamaguchi University, Ube, Yamaguchi, Japan. The number of attendance for the 18th HISS is about 400 (sum of two days). The contents of this symposium are as follows;

 - One keynote lecture
 - One panel discussion
 - 2 presentation from industrial company
 - 8 presentations from academic laboratories
 - One get together meeting for the students
 - Technical presentations (Number of Technical Presentations: 134)
 - 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; 21
 - HISS International Session Award; 1
 - HISS Best Presentation Award for High School Students; 1
 - HISS Excellence Presentation Award for High School Students; 4
 - (b) Selected by the vote of attendances.
 - HISS Best Presentation Award; 1
 - HISS Good Presentation Award; 6
- 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 2016 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 18th HISS Distinguished Contribution Award:** 29 students
 - The 18th HISS Distinguished Service Award:** 19 students



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

- Section Web site
 - <http://www.ieee-jp.org/section/hiroshima/> (in Japanese)
 - <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/> (will be appeared soon)
- The web page of IEEE SMC chapter in Hiroshima Section:
 - <http://www.smc-hiroshima.info.hiroshima-cu.ac.jp/eng/>
- The web page of IEEE EMBS West Japan Joint Chapter:
 - <http://www.ieee-jp.org/section/fukuoka/embwj/>
- The 18th HISS website (in Japanese):
 - <http://hiss18th.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 27, 2017.
- (2) Board of Directors
 - Four committee meetings plan to hold.
- (3) The 19th IEEE Hiroshima Student Symposium (HISS)
 - The 19th HISS plan to hold at Shimane University, Shimane, Japan on November, 2017.
- (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 19th Hiroshima Student Symposium (HISS) at Shimane.
- 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.