

2021 IEEE Hiroshima Section Activity Report

PART A - SECTION SUMMARY

A.1 Executive Summary

- **Section Executive Committee Member List**

- **Officers [2021-2022]:**

- **Chair:** Kazuhiro Uehara (Okayama University)
uehara@okayama-u.ac.jp

- **Vice Chair:** Satoshi Taoka (Hiroshima University)
taoka@infonets.hiroshima-u.ac.jp

- **Secretary:** Hiroaki Yamada (Yamaguchi University)
hiro-ymd@yamaguchi-u.ac.jp

- **Treasurer:** Kokoro Kitamura (Shimane University)
kitamura@ecs.shimane-u.ac.jp

- **Executive Committee Members [2021-2022]:**

- Akira Furui (Hiroshima University)
[Additional Post: Membership Development Committee Chair]
akirafurui@hiroshima-u.ac.jp

- Yusuke Fujita (Yamaguchi University)
[Additional Post: Chapter Promotion Committee Chair]
y-fujita@yamaguchi-u.ac.jp

- Yukinobu Fukushima (Okayama University)
[Additional Post: Educational Activities Chair]
fukusima@okayama-u.ac.jp

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

- Masashi Nakayama (Hiroshima City University)
[Additional Post: Industry Relation Committee Chair]
masashi@hiroshima-cu.ac.jp

- Naoto Sasaoka (Tottori University)
[Additional Post: Student Activities Committee Chair]
sasaoka@tottori-u.ac.jp

- Toshiyuki Yoshida (Shimane University)
[Additional Post: Student Activities Committee Chair]
yosisi@ecs.shimane-u.ac.jp

- Naoki Kagawa (Fukuyama University)
[Additional Post: Fellow Committee Chair]
kagawa@fukuyama-u.ac.jp

- Kensuke Okubo (Okayama Prefectural University)
[Additional Post: Award Committee Chair]
okubo@c.oka-pu.ac.jp

- **Section Highlights**

- 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 23rd IEEE Hiroshima Student Symposium (HISS) (Details are in Section B.4)

- **Major Events (International, National)**

- **Major Chapter Activities**

- **Major Student and Affinity Group Activities**

- **Awards**

- The 2021 Hiroshima Section Contribution Award

A.2 Financial Report – (Please follow the format given below)

		(Japanese Yen)
Income	Balance carried forward	1,435,382
	Section Assessment	933,629
	Section Rebate	470,652
	Student Rebate	19,114
	2021 R10 Section Incentive	172,635
Income	Interest	1,632
	Support for HISS from Foundation	562,850
	Total of Income in Section Account	3,595,894
	Income of HISS (different account from section)	347,000
Sum of Total of Income in Section Account and Income of HISS		3,942,894
Expense	Section Assessment	792,925
	Chapter Rebate for SMC28 (\$295.00-)	32,113
	Student Rebate for HSSB and YUSB	18,941
	Expense for Technical Meetings	33,410
	Section Activities	159,000
	Postage & Supplies	6,920
	Stationery & Bank charge	26,049
	Reserve for next year	1,925,655
	Support for HISS	100,000
	Support for HISS from Foundation	559,850
	Exchange gain and loss	-58,969
	Total of Expense in Section Account	3,595,894
	Expense of HISS (different account from section)	347,000
Sum of Total of Expense in Section Account and Expense of HISS		3,942,894
End-of-Year Balance		0

PART B - ORGANIZATIONAL ACTIVITIES

B.1 Membership Development Activities

- Number of Members@ Dec. 2021: 535 [+19 from Dec. 2020]
- 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]

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 [2020-2021]
Chair: Tomohiro HAYASHIDA (Hiroshima University)
Vice Chair: Keiichi TAMURA (Hiroshima City University)

Secretary: Daisuke HIROTANI (Prefectural University of Hiroshima), Yosuke Kakiuchi(Hiroshima Institute of Technology)
 Treasurer: Tatsuhiko SAKAI (Shimane University)

Technical Activities (SMC)

	Meeting date	Title	Type	Number of days	Number of participants (*)
1	24 Apr. 2021	IEEE SMC Hiroshima Chapter Special Lecture Prof. T. Tanizaki (Kindai University)	Technical	1	16 (16)
2	17 Jul. 2021	2021 IEEE SMC Hiroshima Chapter Young Researchers' Workshop	Technical	1	63 (28)
3	17 Jul. 2021	IEEE SMC Hiroshima Chapter Special Lecture Prof. T. Kajiyama (Hiroshima City University)	Technical	1	63 (28)
4	18 Oct. 2021	Special Session on Advanced Computational Intelligence and Knowledge Extraction in SMC2021	Technical	1	21 (15)
5	6-7 Nov. 2021	2021 IEEE 12 th International Workshop on Computational Intelligence and Applications (IWCIA2021)	Technical	2	55 (29)
6	6 Nov. 2021	IEEE SMC Hiroshima Chapter Invited Special Talk Prof. A. Niimi (Future University Hakodate)	Technical	1	55(29)
7	18 Dec. 2021	IEEE SMC Hiroshima Chapter Special Lecture Prof. K. Taniguchi (Yasuda Women's University)	Technical	1	24(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
51	56	+9.8%

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) 2021 General Assembly of IEEE Hiroshima Section

Jan. 26, 2021 (Online), Attendance: IEEE Members: 27 (letters of attorney: 85)

(B.3.2) Administrative Meetings

Administrative meetings were held 4 times.

1. The 1st Board of Directors on April 2, 2021 (Online)
Attendance: Officers and Executive Committee Members 12
2. The 2nd Board of Directors on May 29, 2021 (Online)
Attendance: Officers and Executive Committee Members 11
3. The 3rd Board of Directors on Sept. 10, 2021 (Online)
Attendance: Officers and Executive Committee Members 11
4. The 4th Board of Directors on Nov. 26, 2021 (Online)
Attendance: Officers and Executive Committee Members: 12

<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)

- Lecture Meetings were held 4 times.

1. Special Lecture at Hiroshima
Title: Research Activities in Diversity
Speaker: Prof. Nobuo Funabiki (Okayama University)
Location: Online (Zoom)
Date: Jan. 26, 2021
Attendance: 27 (IEEE Member:27)
<https://www.ieee-jp.org/section/hiroshima/e/2021/01/15/special-lecture-january-26-2021/>
2. Technical Lecture
Title: Development of detection method for defect in the casting and evaluation method of material properties for steel using magnetic non-destructive testing
Speaker: Prof. Kenji Sakai (Okayama University)
Location: Online (Webex)
Date: Apr. 2, 2021
Attendance: 13 (IEEE Member:12)
<https://www.ieee-jp.org/section/hiroshima/e/2021/04/03/technical-lecture-april-2-2021/>
3. Technical Lecture
Title: Let's make the IEEE Hiroshima Section Student Symposium (HISS) successful!
Speaker: Prof. Masashi Hotta
Location: Online (Zoom)
Date: May 29, 2021
Attendance: 38(IEEE Member:10)
<https://www.ieee-jp.org/section/hiroshima/e/2021/05/30/technical-lecture-may-29-2021/>
4. Technical Lecture
Title: Japanese chicken - genetic resource in research and foods -
Speaker: Prof. Masaki Tsuzuki
Location: Online (Zoom)
Date: November 26, 2021
Attendance: 17 (IEEE Member:15)
<https://www.ieee-jp.org/section/hiroshima/e/2021/11/30/technical-lecture-november-26-2021/>

The image shows a screenshot of a technical lecture slide from Hiroshima University. The slide is titled "広島大学 日本鶏資源開発プロジェクト研究センター" (Hiroshima University Japanese Chicken Resource Development Project Research Center). It lists various fields of study: 遺伝学, 育種学, 発生学, 発生工学, 繁殖学, 免疫学, 生理学, 管理学等の観点から研究・教育・社会貢献を展開 (Research, education, and social contribution from the perspective of genetics, breeding, development, developmental engineering, reproduction, immunology, physiology, and management, etc.).

The slide also features a section titled "都築グループの研究紹介:" (Introduction of the Tsuzuki Group's research) with the following bullet points:

- ★ ニワトリおよびウズラにおける, 成長性, 産卵性, 卵質, 肉質を支配している量的形質遺伝子(座)の解明 (QTL解析).
⇒ ゲノム育種が可能に (卵肉の自給率向上に貢献).
- ★ ニワトリ品種間の遺伝的類縁関係の解明 (DNAマーカー利用).
- ★ ニワトリおよびウズラにおける形態学的 (質的) 突然変異遺伝子の解明.
- ★ 日本鶏を用いての, 新規肉用鶏開発 (大学発は国内初)

On the right side of the screenshot, a Zoom meeting interface is visible, showing a list of participants: 大-07 都築政起, 山田 洋明_山口大学, 田岡智志_広島大学, 上原一浩_岡山..., 上原一浩_岡山大学, 北村心_島根大学, 北村心_島根大学, 高山 雄利_山口..., 高山 雄利_山口大学, 酒田 彬史_山口..., and 酒田 彬史_山口大学.

Screenshot of technical lecture on November 26, 2021.

■ Technical symposium (HISS2021) was held as follows:

The 23rd IEEE Hiroshima Section Student Symposium (HISS) was held in November 27, 28, 2021 via online. HISS is an event, "for society by student" mainly planned and managed by the students. The number of attendances for the 23rd HISS is 241 (sum of two days).

Zoom Maximum number of simultaneous accesses

- Opening ceremony: 130
- Invited lecture (21st IEEE Engineer Spotlight): 141
- Keynote lecture: 95
- Exchange meeting: 65

The contents of this symposium are as follows;

- Invited lecture
 - Title: Future and development of semiconductor memory industry, how to work in manufacturing business and global environment
 - Speaker: Dr. Nahomi Aoto (Micron Technology, Inc.)
- Keynote lecture
 - Title: Toward an innovation construction city “Ube”
 - Speaker: Toshiaki Mito (Administration officer, Commerce and fishery section, Ube city)
- One presentation from industrial company
- 1 presentation from academic laboratories
- 1 presentation from high-school students
- One get-together meeting
- Technical presentations (Number of Technical Presentations: 87)
- One experience course
- On this symposium, following prizes are awarded:
 - Selected by the Nomination Committee of HISS Research Award.
 - HISS Best Paper Award: 1
 - HISS Excellent Paper Award: 16
 - HISS English Presentation Award: 1
 - IEEE WIE Shikoku, Fukuoka, and Hiroshima Section Award: 1
 - HISS Best Presentation Award for High School Students: 1
 - HISS Excellent 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/>

The screenshot displays a presentation slide on the left and a Zoom meeting interface on the right. The slide, titled "IEEEの組織構造と、HISSとの関係" (IEEE Organizational Structure and Relationship with HISS), shows a hierarchy starting with "IEEE Members" at the top, leading to a "Committee" and "Board of Directors". Below this are various divisions: "Publication", "IEEE-USA", "International Activities", "MGA (Member and Geographic Activities)", "Standards Association", and "Technical Activities". A box highlights "R-1, R-2, R-3, R-4, R-5, R-6, R7, R8, R9, R10" with a note "(日本はR-10に属する)". Another box lists "日本の9つのSection" (9 Sections of Japan) including Hokkaido, Sendai, Tokyo, Niigata, Chubu, Kansai, Chugoku, and Fukuoka. A note at the bottom states "100ヶ国以上の大学に約3,000の学生部会" (Approximately 3,000 student branches in over 100 countries). The Zoom interface on the right shows a grid of participants, including the event organizer and several attendees.

Screenshot of opening ceremony.

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

1. Technical Co-Sponsored Event
Title: 20th International Symposium on Communications and Information Technologies (ISCIT 2021)
Date: 19-22 Oct., 2021
Location: Tottori University (Online)
2. Co-sponsored Technical Lecture
Title: "Let's think about a work-life balance under the new normal for Young CAS Researches and Students" Women in Circuits and Systems (WiCAS)
Date: 22 Nov., 2021
Location: Okayama Convention Center (hybrid)
3. Technical Co-Sponsored Event
Title: 24th International Symposium on Wireless Personal Multimedia Communications (WPMC2021)
Date: 13-16 Dec., 2021
Location: Okayama Convention Center (hybrid)
4. Technical Co-Sponsored Event
Title: 4th International Symposium on Devices, Circuits and Systems
Date: 3-5 March, 2021
Location: Online
5. Technical Co-Sponsored Event
Title: Fresh IT Award 2021
Sponsored: IEICE
Date: 31 Oct., 2021
Location: Online
6. Technical Co-Sponsored Event
Title: Technical forum – A new twist of design, implementation, and control in actual system
Sponsored: Japan Society of Mechanical Engineers
Date: 10 Dec., 2021
Location: Online-

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 2021, 11 students have been supported for their presentation.
-
- **Yamaguchi SB:** A meeting and 2 workshops were held by Yamaguchi SB Committee.
1. Election of board member
Date: Feb. 22, 2021
Location: Online (Zoom)
Number of participants: 8
Description: New board members were elected in an annual election.
 2. Presentation workshop
Date: May 7, 2021
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: May 19, 2021
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 3 times.
 1. Homepage management
 - Date: Jan. 6, 2021
 - Location: Online (Google Meet)
 - Number of participants:4
 - Description: Teaching of homepage management.
 2. Meeting to elect officers
 - Date: Ja. 29, 2021
 - Location: Online (Google Meet)
 - Number of participants:7
 - Description: We decided on the officers.
 3. 1st board meeting
 - Date: May. 25, 2021
 - Location: Online (Google Meet)
 - Number of participants:4
 - Description: We discussed the activities of the SBLTW (Student Branch Leadership Training Workshop) and changes to the bylaws to elect officers for the vacant positions.

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

B.5 Affinity Group Activities

- Women In Engineering (WIE)
 - The IEEE WIE Shikoku, Fukuoka, and Hiroshima Section Award was instituted for the technical symposium 23rd HISS.

B.6 Awards & Recognition Activities

- Awards constituted by the Hiroshima Section
 - The 2021 Hiroshima Section Contribution Award: Prof. Toshihiko Hamasaki (Hiroshima Institute of Technology)
 - The 23rd HISS Distinguished Contribution Award: 1 student
 - The 23rd HISS Contribution Award: 8 students
 - The 23rd HISS Distinguished Activity Award: 8students
 - The 23rd HISS Activity Award: 20 students



Screenshot of the 2021 Hiroshima Section Contribution Award.

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

- Newsletter
R10 Newsletter, “R10 Small Section of the Month”, p.23, July 2021
<https://www.ieeer10.org/wp-content/uploads/2021/08/IEEE-R10-Connect-July-Issue-Final-v2.pdf>
- Website of the Hiroshima Section
Section website
 - <https://www.ieee-jp.org/section/hiroshima/> (in Japanese)
 - <http://www.ieee-jp.org/section/hiroshima/e/> (in English)**The website of Hiroshima Section Student Branch**
 - <https://hiroshima-ssb.netlify.com/> (in Japanese)**The website of Yamaguchi University Student Branch**
 - <http://ysb.eee.yamaguchi-u.ac.jp/> (in Japanese)**The website 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 website of 23rd HISS**
 - <http://www.ieee-jp.org/section/hiroshima/e/>
- Other means of contacts with Section members including social media
Section Facebook page
 - <https://www.facebook.com/ieee.hiroshima/> (in Japanese)

PART C - OTHERS

C.1 Special Events

The 23rd 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 unique events 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 Universities.

C.4 Support extended to Sub-sections & Society Chapters within the Section

- Support extended for organizing technical, educational, and professional activities
- Joint activities for membership development
- Support extended for the formation of a Sub-section or transition of a Sub-section into a full Section

C.5 Best Practices of your 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 19, 2022.

(D.1.2) Board of Directors

Four committee meetings plan to hold.

(D.1.3) The 24th IEEE Hiroshima Student Symposium (HISS)

The 24th HISS plan to hold at Okayama University, Okayama, Japan on November, 2022.

(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 24th HISS at Okayama University.
- We try to find the system for active communications between academic and company members.