

# IEEE CAS Society, Shikoku Chapter

## Report of Outreach Initiative 2017

Name: Tetsushi Ueta  
(Chair, CASS Shikoku Chapter)

Date: October 5, 2017

1. Event name: IEEE CASS Shikoku Chapter YP and Student  
Member Meeting

2. Date: September 22, 2017

3. Place: Hotel Mielparque Matsuyama,  
123-2, Dogo-Himetsuka, Matsuyama, JAPAN

4. Attendance: IEEE Members: 27, Guests: 10

5. Metrics to measure its success:

A. Number of young members joining the meeting.  
target: 35, result: 37

B. Number of new members recruited for the meeting.  
target: 15, result: 10

C. Number of talks given by young members.  
target: 10, result: 11

## 6. Program:

Sep 22 (Friday)

- 13:30-13:35 Opening address by Prof. Tetsushi Ueta (Chair, CASS Shikoku Chapter)
- 13:35-13:50 Introduction of IEEE Circuits and Systems Society and Shikoku Chapter activities by Prof. Yoshifumi Nishio (BoG Member R10 Representative, CAS Society)
- 13:50-14:00 Introduction of YP and WiCAS Activities of IEEE Circuits and Systems Society and Shikoku Chapter by Dr. Yoko Uwate (WiCAS-YPP Past-Chair, CAS Society)

14:00-15:00 Talks by student members

- A. "Visiting Russia for NOMA 2017 Conference"  
by Mr. Daiki Nariai (Graduate Student Member)
- B. "Report on NDES 2017 in Switzerland"  
by Mr. Kazuki Ueta (Graduate Student Member)
- C. "Studying Abroad is True or False"  
by Mr. Minh Hai Tran (Graduate Student Member)
- D. "Introduction of Vietnam"  
by Mr. Vu Minh Hien (Graduate Student Member)

15:15-15:40 Invited Talk

- "The Fun in Research Activities"  
by Dr. Haruna Matsushita (Kagawa University)

15:40-17:10 Research introductions by student members

- E. "Synchronization Phenomena of Coupled Chaotic Circuits with Different Network Structure"  
by Mr. Shuhei Hashimoto (Graduate Student Member)
- F. "Synchronization of Coupled Chaotic Circuits including Memristors"  
by Mr. Tsubasa Tezuka (Student Member)
- G. "Study on Period Doubling Bifurcation Point Detection Method by Particle Swarm Optimization"  
by Mr. Kenji Yamazaki (Graduate Student Member)
- H. "Discriminate Temporal Data with Deep Learning"  
by Mr. Shinsaburo Kittaka (Graduate Student Member)
- I. "Method of Analysis for the Hybrid Systems"  
by Mr. Yuu Miino (Graduate Student Member)
- J. "Cellular Neural Networks with Using Two Templates for Some Image Processing"  
by Mr. Takahisa Ando (Graduate Student Member)

17:30-18:30 Discussions and Q&A

19:00-21:00 Reception party

## 7. Detail:

IEEE CAS Society Shikoku Chapter organized the IEEE CASS Shikoku Chapter YP and Student Member Meeting on September 22 at Hotel Mielparque Matsuyama, Matsuyama-City, Japan. The same event was held from 2008 in order to give YP (formerly GOLD) and Student Members in the CASS Shikoku Chapter an opportunity to communicate each other and to discuss their future.

In this year, 27 CASS members and 10 guests attended the event. First, Prof. Ueta, the Chair of the CASS Shikoku Chapter, welcomed all the participants and talked about the importance of the meeting. Next, Prof. Nishio, who is the CASS BoG Member Region 10 Representative and also the past-chair of the chapter, introduced the detail of the IEEE CASS organization and the chapter's past and current activities. Dr. Uwate, who is the CASS WiCAS-YP Past-Chair and the chapter's WiCAS-YP Chair, followed with the introduction of the WiCAS and YP community in CASS and the past activities in the Shikoku Chapter.

In the first session, four graduate student members introduced their international experiences. Mr. Nariai and Mr. Ueta talked their experiences attending international conferences held in Russia and Switzerland, respectively. They also gave their opinions what they could obtain through their experiences. Mr. Tran talked about his memory when he spent a year in Tokyo as a foreign student who could not understand Japanese. Mr. Hien introduced the life and the culture in Vietnam to Japanese students.

After a short break, Dr. Matsushita of Kagawa University delivered an invited talk on how research activities are beneficial to students not only in technical part but also in his/her own life. After her talk, five graduate student members and one student member introduced their research results. Their research areas were complex networks, memristor circuits, swarm optimization, deep learning, nonlinear system analysis, and cellular neural networks. Finally, the discussions and Q&A session was very exciting. At the end of the Q&A session, two students are awarded the CASS T-Shirts for their best presentations.

In this year, we have set up the three targets to measure the success of this event as described in the previous section. Although we were short to reach the target of recruiting new members, the event successfully stimulated many young student members. We should work harder to recruit more young researchers including students and to encourage them by exploiting every opportunities, because we believe that young people are definitely the future of our society.

## 8. Pictures:

