In this year, 6 chapters joined the activity and 7 visits were completed.
1. Malaysia Chapter (visits Shikoku Chapter)
2. Japan Chapter (visits Singapore Chapter & Malaysia Chapter)
3. Singapore Chapter (visits Calcutta Chapter)
4. Shikoku Chapter (visits Shanghai Chapter)
5. Malaysia Chapter (visits Taipei Chapter)
6. Hyderabad Chapter (visits Singapore Chapter)
7. Shikoku Chapter (visits Guangzhou Chapter)

The following visit is accepted but the chapter withdrew the visit because of the visa problem of a student.
8. Shanghai Chapter (visits Taipei Chapter)

Visit reports prepared by the visiting chapters are attached from the next page of this file.

Metric of success

A. Number of proposals.
   target: 12, result: 8
   I wish more proposals from different chapters.

B. Number of countries of visiting chapters.
   target: 5, result: 4
   Average number.

C. Number of countries of host chapters.
   target: 4, result: 6
   Good number!!
IEEE CASS Networking Visit by IEEE CAS Society Malaysia Chapter to Shikoku Chapter

IEEE CASS Malaysia chapter visited IEEE CASS Shikoku Chapter on October 4 – 5, 2015 at Tokushima, Japan to strengthen the link between two chapters. Four representatives from Malaysia attended the meeting includes Dr. Fawnizu Azmadi Hussin and Dr. Tang Tong Boon (from Universiti Technology Petronas) and Dr. Fakhrul Zaman Rokhani and Lim Yang Wei (from Universiti Putra Malaysia).

Oct 4, 2015 (Sunday)

On the first day of visit, visiting team arrived at Kansai International Airport around 6.30am before traveling to Tokushima by bus. Upon arriving at Tokushima, Dr. Yoko Uwate and several Malaysian students welcomed the visitors, and later visitors were checked-in at Shinkura Kaikan. Some social/cultural activities were done on the first day that includes visit to Aizumicho Historical Museum and Mount Bizan.

Oct 5, 2015 (Monday)

A joint seminar by both Malaysia and Tokushima representatives was held at the Center for Information Technology from 10.00am to 4.00pm. The seminar titles present are shown in following:

1. Test & Reliability of Electronic Circuits: Overview and Case Study, Malaysia.
3. Probabilistic neural computing with advanced nanoscale MOSFETs, Malaysia.
5. Reliable and Energy Efficient Network on Chip, Malaysia.
8. Chaotic Attractor Observed in RC Phase Shift Oscillator and Pulse Generator, Japan.

IEEE CASS meeting between two Chapters was held after the seminar, followed by visit to Nonlinear Circuits Laboratory and university semiconductor fabrication clean room. During the meeting, several key points has been agreed – involvement in ICSys’17 as TPC and steering committee, involvement in BioPro’16 as speaker and joint seminar between Malaysia-Shikoku chapters in 2016.

Later that night, visitors were invited to a fine authentic Japanese dinner hosted by Dr. Yoshifumi Nishio, Dr. Tetsushi Ueta and Dr. Yoko Uwate. The visiting team returned to Malaysia on the early morning of October 6th 2015.
Photos

Fig. 1  Awa Indigo dyeing at Aizumicho Historical Museum, Tokushima

Fig. 2  Tokushima city view from the top of the Mount Bizan
Fig. 3  Dinner with Dr. Yoko Uwate and Malaysian Students on the first day

Fig. 4  Representatives from Malaysia arrived at Tokushima University, Oct 5th 2015
Fig. 5  Energy efficient and environment-friendly blue light-emitting diode (LED) invented by Isamu Akasaki, Hiroshi Amano and Shuji Nakamura that received Nobel Prize

Fig. 6  Seminar given by Dr. Fawnizu (Left) and Dr. Tang (Right)

Fig. 7  Seminar given by Dr. Fakhrul (Left) and Mr. Lim (Right)
Fig. 8 Group photo with speakers and participants of the joint seminar between CASS (Malaysia) and CASS (Shikoku).

Fig. 9 IEEE CASS Meeting between Malaysia and Shikoku Chapters
Fig. 10  IEEE CASS members from Malaysia and Shikoku Chapters

Fig. 11  Visit to Non-linear Circuit Laboratory
Fig. 12 Demonstration on clean-room facilities

Fig. 13 Farewell Dinner
Travel report for the Networking CASS Chapters in Asia-Pacific countries.

On behalf of IEEE CASS Japan Chapter, Hiroo Sekiya (Senior member, IEEE) and Sun Yuchong (Student member, IEEE) visited Prof. Pramod Kumar Mehere, who is a chair of the IEEE CASS Singapore Chapter, during 15:30-17:00, October 26 for making a strong network and good friendship between IEEE Circuits and Systems Society (CASS) Singapore and Japan Chapters. The meeting place is Nanyang Technological University (NTU), Singapore.

I made a technical lecture about wireless-power-transfer system designs. After that, I and student took a tour of NTU VLSI laboratory and talked with NTU professors and students about researches, education system, and cultures of both countries as well as IEEE CASS activities. We had a dinner with Singapore Chapter officers and discussed future events for networking. It was proposed from Singapore Chapter that Japan Chapter would join the student forum, which will be held in Singapore in July or August next year. Both chapters will make an effort to realize the joint forum for enhancing strong network between Japan and Singapore.

Sun and I moved to Malaysia at October 27. In Malaysia, I visited Prof. Nurul Amziah Md Yunus, who is a chair of the IEEE CASS Malaysia Chapter, at Universiti Putra Malaysia (UPM) during 12:00-15:00, October 27. Prof. Alan Harvey, who is a chair of Victoria Chapter, was also in UPM and there are talks and discussions about CASS activities of Malaysia, Victoria, and Japan Chapters. There was also an invited talk of Prof. Alan at UPM, which is very impressive for me. Sun and I moved from Kuala Lumpur (KL) to Ipoh in the evening.

At October 28, We visited Universiti Teknologi Petronas (UTP) for attending High Tea Event, which was organized by the IEEE CASS Malaysia Chapter. Many members of the IEEE CASS Malaysia Chapter attended the event. I made an invited talk in this event and Sun talked with many Malaysia-Chapter students and professors through the poster presentations. Prof. Nurul and I confirmed that Japan and Malaysia Chapters keep making a strong network and good partnership. It was planed that we will hold and attend International Conference on Electrical and Electronic Engineering Technology (ICEET2016) in August in Penan, Malaysia, IEEE CAS Malaysia symposium called ICSyS in 2017, and plenty of activities in Malaysia and Japan Chapters one another.

It is our common recognition that the research networks among Asia-Pacific countries are very important. Actually, posterior to our visiting Seoul and Tainan Chapters in the past two years, I really feel good friendships not only personally but also commonly. This year, “Taiwan and Japan Conference on Circuits and Systems” (TJCAS 2015) was held in Japan. I really hope to keep exchange visit program in Region 10 for making stronger networks among Asia-Pacific countries.

Reported by Hiroo Sekiya
Graduate School of Advanced Information Science, Chiba University
With Singapore-Chapter officers. (Center: Hiroo Sekiya, Right: Sun Yuchong.)

High-Tea event at UTP.

With Malaysia-Chapter members.
Report on Visit of IEEE Circuits and Systems Society Singapore Chapter to Calcutta Chapter under Networking CASS Chapters

**Visiting Chapter:** Singapore Chapter  
**Visiting Chapter’s Chair:** Pramod Kumar Meher  
**Host Chapter:** Calcutta Chapter  
**Host Chapter’s Chair:** Salil Kumar Sanyal  
**Visiting Officer:** Pramod Kumar Meher  
**Visiting Student:** Lou Xin  
**Visiting Schedule:** Lou Xin from 03 November 2015 to 05 November 2015 and Pramod Kumar Meher on 05 November 2015.

The student Lou Xin had extensive interaction with CASS members in Kolkata during his stay in Kolkata.

The networking meeting was held at Narula Institute of Technology, Agarpara, Kolkata on 05 November 2015. Welcome address was given by Prof. S. K. Sanyal, Chairman, IEEE CASS Calcutta Chapter. Prof. R. Nandi, Executive Committee Member of IEEE CASS Calcutta Chapter discussed the advantage of IEEE membership and IEEE CASS membership.

A technical talk on “Efficient Multiple Constant Multiplications” was delivered by the student Lou Xin.

I delivered a technical talk “Towards a smarter world: Opportunities and challenges”.

There was extensive discussion in a meeting with the members of CASS Calcutta Chapter regarding possible collaboration on organization of an outreach activity at Kolkata to promote CASS membership in that region. Besides, effort will made for stronger networking of CASS Chapters in India. A meeting of Chapter Chairs of CASS Chapters in India will be planned in 2016 to discuss the ways to promote IEEE CASS activities in India. Efforts will be made to have new CASS Chapters in India.

Pramod Meher  
Chapter Chair, IEEE CASS Singapore Chapter.
IEEE CAS Society, Shikoku Chapter

Report of "Networking CASS Chapters"

Name: Yoshifumi Nishio  
(Past-Chair, CASS Shikoku Chapter)

Date: November 30, 2015

1. Visiting Chapter:  
   IEEE CASS Shikoku Chapter

2. Visiting Officer(s):  
   Prof. Yoshifumi Nishio (Tokushima University), Chapter Past-Chair  
   Prof. Yasuteru Hosokawa (Shikoku University), Chapter Secretary

3. Visiting Student(s):  
   Mr. Takato Sei (Tokushima University)  
   Mr. Masaki Takeuchi (Tokushima University)

4. Host Chapter:  
   IEEE CASS Shanghai Chapter

5. Host Officer(s):  
   Prof. Peilin Liu, (Shanghai Jiao Tong University), Chapter Chair  
   Prof. Chen He, (Shanghai Jiao Tong University), Chapter Past-Chair  
   Prof. Di He, (Shanghai Jiao Tong University), Chapter Secretary

6. Visiting Date:  
   November 6-7, 2015

7. Detail:

   IEEE CAS Society Shikoku Chapter visited Shanghai Chapter on November 6-7, 2015.  
   Nishio, Shikoku Chapter Past-Chair/Treasurer, and Prof.  
   Hosokawa, Shikoku Chapter Secretary, introduced the activities of  
   the Shikoku Chapter in 2015 and several plans in 2016. Prof. Liu  
   and Prof. He introduced their activity and also their recent research  
   directions of unmanned robot/vehicle/plane.  
   Mr. Takato Sei and Mr. Masaki Takeuchi, both are undergraduate  
   students of Tokushima University, gave talks titled as  
   "Synchronization Phenomena of Triangle System and Two-Triangle  
   System of FitzHugh-Nagumo Neurons" and "Features of Firefly
Algorithm Distinguishing between Males and Females", respectively, in front of some professors and their students of Shanghai Jiao Tong University. This opportunity was their first experience to present their research results to foreign people.

8. Pictures:

Photo 1: Meeting between Shanghai Chapter and Shikoku Chapters.

Photo 2: Presentation of Takato Sei.

Photo 3: Shanghai Chapter and Shikoku Chapter.
Report about Two-Day Networking Visit by IEEE CAS Society Malaysia Chapter to Taipei Chapter

Prepared by Tong Boon Tang

Nov 23, 2015 (Monday)

Five delegates from IEEE CAS Society Malaysia Chapter visited the Taipei Chapter Chair, Prof Ke-Horng Chen, and his colleague Prof Huang-Ming Chen. Profs Chen represented two separate departments of National Chiao Tung University (NCTU), namely the Department of Electrical and Computer Engineering, and Department of Electronic Engineering. The meeting started with a talk by IEEE CASS student member Mr Lam Ghai Lim on his research work about *helical capacitance sensor design for hold-up measurement in two-phase stratified flow*. Next, the organization and the activities by IEEE CAS Society Malaysia Chapter were presented. Members from both chapters discussed about possible collaborations. Among all, Taipei Chapter was invited to participate in the annual high tea networking event and the biennial IEEE International Circuits and Systems Symposium (ICSyS) organized by the Malaysia Chapter. In turn, Malaysia Chapter was invited to participate in the Taiwan and Japan Conference on Circuits and Systems (TJCAS). Possible research collaboration in the areas of mixed signal and digital system design was also discussed. The Taipei Chapter has offered assistance in silicon chip implementation. This is an important outcome for the Malaysia Chapter as the access to semiconductor fabrication facility in Malaysia is limited, posing a major constraint to research progress. It has been agreed that researchers from both Chapters will be matched based on research topic, and the collaboration will be conducted first via student exchange program, before extended to visiting professor program. The meeting was successfully concluded with a tour to the Mixed-Signal and Power IC Lab as well as the System Integration and Silicon Implementation Lab of NCTU.

Nov 24, 2015 (Tuesday)

Prof Hsin Chen of National Tsing Hua University (NTHU), Taiwan, hosted the Malaysian delegates. Prof Chen was the key organizer of 2015 Asia-Pacific School on Bio-inspired Systems and Prosthetic Devices (BioPro) sponsored by IEEE CAS Society Outreach Initiatives. Postgraduate students of Prof Chen introduced the Malaysian delegates to their research work about neural engineering. Later, a tour to Taiwan National Chip Implementation Center (CIC) and National Nano Device Laboratories was conducted. This year, the CIC has organized a 3-week IC training course (include a student chip tape-out) for Taiwanese postgraduates. It is of common interest to both the CIC and the Malaysia Chapter that the course will be extended to foreign researchers visiting Taiwanese universities. After the tour, Prof Chen (NTHU) and Dr Tang (UTP) have agreed to collaborate in two research projects related to neural engineering, i.e. one project on hardware implementation of spiking deep belief network (DBN) and the other project on working memory study using functional near infrared spectroscopy (fNIRS). In addition, they will collaborate to host BioPro 2016 in Kuala Lumpur, Malaysia.
Photos during visit

Fig. 1: (a) Group photo of Malaysian delegates with Taipei Chapter representatives. (b) Presentation from Malaysian delegate about the organization and the activities by the IEEE CAS Society Malaysia Chapter. (c) Exchanging token of appreciation to Taipei Chapter Chair, Prof Ke-Horng Chen.

Fig. 2: (a) Meeting between delegates from Malaysia Chapter and the host Taipei Chapter. Touring the mixed-signal and power IC lab (b) and the System Integration and Silicon Implementation Lab (c), both at National Chiao Tung University.
Fig. 3: Visit to Neural Engineering Lab led by Prof Hsin Chen at National Tsing Hua University.

Fig. 4: Visit to Taiwan National Chip Implementation Center and National Nano Device Laboratories about their technologies and services.
Fig. 5: Social lunch at National Chiao Tung University on Nov 23, 2015 (a), and at National Tsing Hua University on Nov 24, 2015 (b).

Table 1. List of delegates from Malaysia Chapter

<table>
<thead>
<tr>
<th>No</th>
<th>Name</th>
<th>University</th>
<th>Position</th>
<th>Role in IEEE CASS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dr Tong Boon Tang</td>
<td>Universiti Teknologi PETRONAS</td>
<td>Faculty member</td>
<td>Committee Member</td>
</tr>
<tr>
<td>2</td>
<td>Dr Fakhrul Zaman Rokhani</td>
<td>Universiti Putra Malaysia</td>
<td>Faculty member</td>
<td>Committee Member</td>
</tr>
<tr>
<td>3</td>
<td>Lam Ghai Lim</td>
<td>Universiti Teknologi PETRONAS</td>
<td>Postgraduate student</td>
<td>Student Member</td>
</tr>
<tr>
<td>4</td>
<td>Yang Wei Lim</td>
<td>Universiti Putra Malaysia</td>
<td>Postgraduate student</td>
<td>Student Member</td>
</tr>
<tr>
<td>5</td>
<td>Fazrul Faiz Zakaria</td>
<td>Universiti Putra Malaysia</td>
<td>Postgraduate student</td>
<td>Student Member</td>
</tr>
</tbody>
</table>
IEEE CASS Networking Initiative 2015 for Asia Pacific Countries – Report

Under IEEE CASS networking initiative 2015, volunteers of IEEE Hyderabad Section, India visited IEEE Singapore Section. Details of the Sections and visitors are as follows:

Visiting Chapter: Hyderabad Chapter
Visiting Chapter’s Chair: P.A. Govindacharyulu
Host Chapter: Singapore Chapter
Host Chapter’s Chair: Pramod Kumar Meher
Visiting Officer: Srinivas Mandalika
Visiting Student: Srilakshmi Koganti
Visiting Schedule: Nov. 25-26, 2015

As a part of this visit, the visitors met the Host Chapter Chair and his colleagues at Nanyang Technological University, Singapore. After introductions about respective chapters, activities and strengths, the visitors delivered the following lectures to the audience:

Srinivas Mandalika: ‘ARI (Acute Respiratory Infection) Monitor for Early Detection of Pneumonia in Infants’

Srilakshmi Koganti: ‘Methodology for Selection of Optimal Off Shore Wind Energy Transmission System’

A few interesting questions were asked during the lectures and discussed.

After the lectures, both the teams discussed and agreed that there is a need and an opportunity for a larger cooperation and collaboration between the two sections. It was agreed that both Singapore and Hyderabad Section will work together to organize workshops, colloquia and conferences jointly in coming years. Also, active members from academia and industry in both the chapters will be identified and efforts will be put in to foster collaboration between them.

Later in the evening, Dr. Pramod Kumar Meher hosted a sumptuous dinner for the visitors in an Indian restaurant located in Little India part of Singapore.

Overall, the visitors had a very professionally satisfying time during their visit to Singapore Section and wish to thank IEEE CASS for making it possible through their networking initiative.
IEEE CAS Society, Shikoku Chapter

Report of "Networking CASS Chapters"

Name: Yoshifumi Nishio
(Past-Chair, CASS Shikoku Chapter)

Date: November 30, 2015

1. Visiting Chapter:
   IEEE CASS Shikoku Chapter

2. Visiting Officer(s):
   Prof. Yoshifumi Nishio (Tokushima University), Chapter Past-Chair

3. Visiting Student(s):
   Mr. Xiang Cao (Xi'an Jiaotong University)

4. Host Chapter:
   IEEE CASS Guangzhou Chapter

5. Host Officer(s):
   Prof. Hongmei Liu, (Sun Yat-Sen University), Chapter Chair

6. Visiting Date:
   November 29, 2015

7. Detail:

   IEEE CAS Society Shikoku Chapter visited Guangzhou Chapter on
   November 29, 2015.

   Nishio, Shikoku Chapter Past-Chair/Treasurer, introduced the
   activities of the Shikoku Chapter in 2015, several plans in 2016,
   the members of the Shikoku Chapter and their research interests,
   and so on. Prof. Liu, Guangzhou Chapter Chair, introduced the
   activities of the Guangzhou Chapter and also guided the historical
   campus of Sun Yat-Sen University.

   Mr. Xiang Cao of Tokushima University presented his research
   result of "An Auto-Calibration Method for Uniform Linear Array
   Subject to Phase Errors."

   During dinner, Nishio discussed possible future collaborations
   between the CASS Guangzhou Chapter and the CASS Shikoku
   Chapter with several members of the Guangzhou Chapter.
8. Pictures:

Photo 1: Introduction of Shikoku Chapters.

Photo 2: Presentation of Xiang Cao.

Photo 3: Discussion of Guangzhou Chapter and Shikoku Chapter.
Photo 4: Historical gate of Sun Yat-Sen University.

Photo 5: Beautiful campus of Sun Yat-Sen University.

Photo 6: Dinner with key members.