

Mar. 2019

ISCA Distinguished Lecture Tour (2018-2019)

Report for the Year 2018

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I was appointed an ISCA DL to serve during 2018-2019. In 2018, I visited several places in Indonesia. In addition, I also made a couple of invited lectures as a part of my ISCA DL lecture series in Japan. Below is a brief report of my lectures in 2018.

1) Indonesia

Satya Wacana Christian University (Salatiga, Indonesia)

The first lecture in Indonesia was held at Satya Wacana Christian University in Salatiga. The city is located in central Java.



The lectures were held in the building shown in the following photograph:



Pictured on the right in the photograph below, Dr. Matias Budhianth hosted the event.



Many faculty members attended the lecture on Aug. 21st, 2018.



I also gave two additional lectures:

- **Introduction to Speech Science with Vocal-tract Models**
- **Advanced topics in Speech Communication with Vocal-tract Models**



During the lectures, I demonstrated human speech production using a set of education tools including different types of vocal-tract models and the lung model.

These photographs were taken with two groups of students from several departments, including the Department of Electrical Engineering, the Department of English, and the Department of Education:



Because the lectures included aspects of science and engineering as well as acoustic phonetics and education in acoustics, it seemed that students from various disciplines were able to appreciate it.

I gave a short history of speech research, and I introduced a classic book: *The Vowel, Its Nature and Structure* written by Chiba and Kajiyama. During the break between the two lectures, one of the chairs quizzed the attendees to make sure they understood my lecture. One of the quizzes asked about Chiba and Kajiyama.

Maranatha Christian University (Bandung, Indonesia)

The second lecture in Indonesia was held at Maranatha Christian University in Bandung. The city is located in west Java.



I gave this lecture on Aug. 23rd, 2018, and the hall was filled with students as follows:



The host of my lecture was Dr. Benjamin Soenarko, pictured on the left, below.



My demonstrations were very popular here as well, and the audience was intrigued with each activity.



Both the Dean of the Faculty of Engineering and the Dean of the Faculty of Letters came to my lecture, and I appreciate their opening remarks and their subsequent questions, after my lesson.

ITB: Bandung Institute of Technology (Bandung, Indonesia)

I gave the third lecture in Bandung at Bandung Institute of Technology on Aug. 23rd, 2018. The chair of my lecture was Dr. Miranti Indar Mandasari, shown in the middle in the photograph below:



They gave me a tour of their campus, and the following photograph was taken in their anechoic chamber:



UMN: Multimedia Nusantara University (Jakarta, Indonesia)

The fourth lecture in Indonesia was held at Multimedia Nusantara University in Jakarta. Jakarta is the capital of Indonesia and is located on the northwest coast of Java.



I gave this lecture on Aug. 24th, 2018. The host of the event at the UMN was Kanisius Kryono, S.T., M.T., shown on the left in the photograph below:



This lecture was so successful that I received many questions and messages even after I returned to Japan. The following pictures were taken during my talk (left) and afterwards, in a group photo (right):



2) International Symposium on Applied Phonetics (ISAPh)

ISAPh 2018 was held at the University of Aizu in Aizuwakamatsu, Japan, on Sep. 19-21, 2018. I was invited to this symposium, and I gave a keynote address as a part of the ISCA-DL lecture tour.

My talk was entitled, “Intuitive education in acoustic phonetics and speech science.” I showed various demonstrations on speech production with a set of vocal-tract models and related tools, including our most recent tools.



3) Universal Acoustical Communication (UAC)

UAC events were held at the Tohoku University in Sendai, Japan in October, 2018. I was invited to a seminar on brain, hearing and speech sciences for universal speech communication. I gave a keynote address as a part of the ISCA-DL lecture tour.

My talk was entitled “How physical models of the human vocal tract contribute to the field of speech communication,” and I showed various demonstrations on speech production with a set of vocal-tract models and their applications. The following is a picture with a current and former students of mine:



4) Tokyo Medical and Dental University (TMDU)

I gave two lectures at the TMDU as a part of the ISCA-DL lecture tour.

Special Lecture in the Graduate School at the TMDU

On Oct. 3, 2018, I conducted a lecture entitled, “Understanding speech science with your eyes, hands, and ears,” as a special lecture for the graduate school. The lecture included a demonstration of the vocal-tract models. After my talk, attendees continued to experiment with producing speech using the vocal-tract models as shown in the photograph on the right.



International Workshop for Young Maxillofacial Prosthetic Educators (yMPE)

Because studying the production of human speech is important in maxillofacial prosthetics, I gave a lecture (Part 1) and led a hands-on activity (Part 2) for young educators from all over the world, as follows:

- Part 1) Introduction to sound production and evaluation using physical models
- Part 2) Hands-on sound production using various physical models of a simulated human head

This is a snapshot taken during the hands-on activity on March 8, 2019:

