

IEEE Student Transition & Elevation Partnership (STEP) Event
Mitsubishi Electric Tour and Discussion with Researchers

Date: September 8th, 2014 (14:30 – 19:30)

Venue: Information Technology R&D Canter, Mitsubishi Electric, Kanagawa, Japan

5-1-1, Ofuna, Kamakura-city, Kanagawa, 247-8501

(<http://www.mitsubishielectric.co.jp/corporate/gaiyo/network/randd/detail/#P000000027>)

SCHEDULE

14:30 to 14:35: Opening speech - Dr. Hiroaki Sugiura (IEEE Fellow)

14:35 to 14:55: Company information Session - Naoshi Yamada

Divided into 2 groups(A and B group) in following tour

<Group A>

14:55 to 15:25: Information Technology R&D Canter Tour

15:25 to 15:55: Industrial Design Center Tour

15:55 to 16:50: Living Environments System Laboratory (Smart House) Tour

16:50 to 17:05: EMC Center Tour

17:05 to 17:20: Antenna Center Tour

<Group B>

15:00 to 15:55: Living Environments System Laboratory (Smart House) Tour

15:55 to 16:10: EMC Center Tour

16:10 to 16:25: Antenna Center Tour

16:25 to 16:55: Industrial Design Center Tour

16:55 to 17:20: Information Technology R&D Canter Tour

17:20 to 17:30: Wrap-up

17:30 to 19:30: Group Meeting and Social Gathering

Organized by Kohei Ohno (IEEE Tokyo Young Professionals Affinity Group Chair), Shinji Yamashita (Fujitsu Lab.), and Yusuke Kozawa (IEEE Tokyo Young Professionals Affinity Group Treasurer)

IEEE Tokyo YPs affinity group organized STEP event on September 8th, 2014. The STEP event was held at Mitsubishi Electric as the 3rd event in Japan. The main topic of the event

was "Make aware of career development as an electronic and electronics engineer". There were 25 participants in the event. The participants included 22 students (18 Graduating Student IEEE Members, and 4 Student IEEE Members). It provided the students a good opportunity to make aware of vision for "future of electric and electrical engineer".

At the beginning of this STEP event, Dr. Hiroaki Sugiura, who is a center president of Industrial Design Center, made the opening speech. Next, Dr. Naoshi Yamada, who is an electronics engineer of Fujitsu Lab., explained company information.

In the Living Environments System Laboratory (Smart House) Tour, Mitsubishi HEMS was explained. We saw the demonstration of Mitsubishi HEMS(Home Energy Management System). It is possible to control home electronics for saving energy using the tablet in outside. We could know the how to save the energy. At the EMC Canter Tour, we heard about "What is EMC(Electromagnetic Compatibility)", "How to defer the EMC" and so on. We looked the anechoic chamber for the measurement of EMC. In the anechoic chamber, we heard about "How to measure the EMC", "role of radio wave absorbent" and so on. In the Antenna design center, "How to measure the antenna characteristic" was lectured. We saw the big anechoic chamber for the antenna characteristics. We knew the mechanism of refractor and antenna. In the Industrial Design Center Tour, We heard the design of development for Mitsubishi Electric's diverse product. We saw products that are made for foreign countries. We learned importance of design. In the Information Technology R&D Canter Tour, we are reminded about security. We could know the MISTY(Mitsubishi Improved Secure Technology). We learned the history of security technology.

Finally, we enjoyed the social gathering at the Kouhi-sou, that is restaurant of Mitsubishi Electric. Many researchers of Mitsubishi Electric who is affiliated with IEEE attended the social gathering, and all of the participants had a casual discussion with the savvy researchers. All members made self introduce and remarked about tour. Main impressions are shown at follows.

"It was amazing, everything is different from university."

"It was very good experience for preparing for job."

"It was boring, noting was interesting." and so on

After self introduce, Dr. Kohei Ohno talked about benefits of IEEE membership as an electronics engineer at the wrap-up.

The STEP events took place in a relaxed environment and were intended as an opportunity for students and young professionals to learn about "an electronics engineer". The event was organized successfully by close collaboration between IEEE Tokyo GOLD Affinity Group, and Mitsubishi Electric.

< Group Photograph >



< Social gathering & Wrap-up >



The participants enjoyed discussions and meals at the social gathering