

Hello From AOBAYAMA

School of Engineering Tohoku University



Research Highlight: Assoc. Prof. Narita

Mechanics of functional composites

Wearable Internet of Things (IoT) devices require innovatively designed electromagnetic materials and energy harvesting technology, and such devices must be lightweight and able to withstand vigorous exercise and impact. Associate Professor Fumio NARITA and his team at the Department of Materials Processing, Graduate School of Engineering at Tohoku University are engaged in research to design and develop polymer-based composite materials incorporating magnetostrictive fibers and piezoelectric nanoparticles for sensing and energy harvesting applications. They are making extensive use of state-of-the-art electromagneto-mechanical characterization techniques, in combination with computational modeling to gain insights into fundamental structure-property relationships of complex multifunctional composite materials. They are also conducting research with a theme of "Let's create the best biodegradable composite!" using materials such as cotton, bamboo, and cellulose nanofiber.

Student: Carlos Rivero (Puerto Rico) Learning the Japanese way of Engineering



I am from Puerto Rico. As a child, I used to watch my father work on cars. As a teenager I began repairing cars myself. Working on cars made me respect Japanese engineers, who were able to make reliable, efficient, reasonably priced cars. I wanted to see firsthand how Japanese engineers studied so I joined the International Aerospace and Mechanical Engineering Course for Undergraduates (IMAC-U) at Tohoku University. There I joined the Adachi-Takeno Laboratory and became knowledgeable in the science of tribology. My research was developing a surface acoustic wave (SAW) motor by improving its stability and performance. Coming to Japan has been a wonderful adventure!

Student: Yu Li (China)



Aobayama Concert

Scientific and cultural impact

Yu Li comes from Hunan in China. Interested in Japanese culture and technology since his childhood, he decided to pursue a master's degree after graduating from Huaqiao University in China. After graduation, he had a gap year during which he learnt Japanese, traveled, and did part-time jobs to save money for studying abroad. He came to Sendai in 2014, becoming a member of Ogawa Lab of the Fracture and Reliability Research Institute, Graduate School of Engineering, Tohoku University. Now his research involves evaluation of damage behavior by the fine particle impact of TiAl alloys, which are a possible replacement for traditional Ni-based superalloy components in aircraft turbine engines.

Melody swinging with deep green leaves



The First Aobayama Concert was held on a sunny day in Aobayama during the rainy season with the trees luxuriating in the rare sunshine. Trading their textbooks and notebooks computers for musical instruments, students and professors in the School of Engineering became concert performers. Piano solos, string ensembles, and a chorus immersed the audience of 70 music lovers in beautiful melodies. The grand resplendent piano in shining black lacquer was donated by the mechanical engineering alumni association in March in hopes it would help soothe minds traumatized by the earthquake and its resulting damage.

Campus News

CHEERLEADING SQUAD

Some belong to the School of Engineering; others are from the School of Law. Yet, they all belong to the Cheerleading Squad of Tohoku University.They not only support their sports teams but they are involved in various activities such as welcoming and encouraging high school students who will take the university entrance examination.

TESP

With more than 60 students of 18 different nationalities, the 2016 Tohoku University Engineering Summer School Program was an absolute success. In addition to Robotics, TESP has extended its program to electrical and electronic engineering.

TAKOYAKI PARTY

Japanese and international students gathered at the Division of International Education and Exchange to cook and taste one of the most famous street food snacks in Japan: takoyaki. This little ball of fried batter cooked around a chunk of boiled octopus is originally from Osaka and is best eaten piping hot.



Detailed web version: http://newsletter.eng.tohoku.ac.jp/

Editor: Division of International Education and Exchange, School of Engineering, Tohoku University Publisher: Yasushi Uematsu, Associate Dean, School of Engineering Contact: leed-eng@grp.tohoku.ac.jp 6-6-04 Aramaki-aza-aoba, Aoba-ku, Sendai, Miyagi Prefecture, 980-8579, Japan. Tel / Fax: +81-22-795-3452





Study in Japan! Study in Tohoku University!

Degree Programs for International Students

 International Doctoral Program in Engineering, Information Sciences, Environmental Studies, Biomedical Engineering: Course starts: Oct. 1

Application Deadline: Late May Contact: eng-in@grp.tohoku.ac.jp http://www.eng.tohoku.ac.jp/english/ admission/procedure/doctoral.html

 International Materials Science and Engineering Master Course (IMSE): Course starts: Oct. 1

Application Deadline: Early Jan. Contact: eng-in@grp.tohoku.ac.jp http://g30.eng.tohoku.ac.jp/imse/

- International Mechanical and Aerospace Engineering Course (IMAC-G) Master, Doctoral course: Course Starts: Oct. 1 Application Deadline: Late Apr. Contact: eng-in@grp.tohoku.ac.jp http://g30.eng.tohoku.ac.jp/imac/
- International Mechanical and Aerospace Engineering Course (IMAC-U) Bachelor course: Course Starts: Oct. 1

Application Deadline for 2017 Enrollment: Refer to the Admission Guideline on FGL website below. Contact: tohoku-fgl@grp.tohoku.ac.jp http://g30.eng.tohoku.ac.jp/imac/

Exchange, Double/Joint Degree Programs for International Students in Partner

Universities Overseas

Exchange Programs

JYPE (Junior Year Program in English)

http://www.insc.tohoku.ac.jp/english/exchange/jype/

Junior year students can enroll in exchange programs for one year/semester of study at Tohoku University. Courses are provided in fields of science, engineering and agriculture. All lectures are given in English. The core course of this program is the Individual Research Training course.

DEEP (Direct Enrollment Education Program)

http://www.insc.tohoku.ac.jp/english/exchange/deep-u/

Special Auditing Students [Undergraduate & Graduate]: Students can take regular courses, almost all of which are conducted in Japanese.

Special Research Students [Graduate]: Students can do research under the supervision of academic advisors at Tohoku University.

COLABS (Cooperative Laboratory Study Program)

http://www.insc.tohoku.ac.jp/english/exchange/colabs/

Students can join research training in assigned research laboratories based on collaboration of professors at Tohoku University and its partner universities.

Double Degree Programs

http://www.tohoku.ac.jp/en/academics/double_degree_program.html

Students can acquire graduate degrees at both Tohoku University and its partner universities. We have Double Degree Programs now with institutions in France and Sweden: Ecole Centrale Group (France), INSA de Lyon (France), KTH (Sweden).

Joint Education Program

http://www.tohoku.ac.jp/en/academics/double_degree_program.html Students can acquire two degrees at Tohoku University and Tsinghua University (China).



Detailed web version: http://newsletter.eng.tohoku.ac.jp/

Editor: Division of International Education and Exchange, School of Engineering, Tohoku University Publisher: Yasushi Uematsu, Associate Dean, School of Engineering Contact: leed-eng@grp.tohoku.ac.jp 6-6-04 Aramaki-aza-aoba, Aoba-ku, Sendai, Miyagi Prefecture, 980-8579, Japan. Tel / Fax: +81-22-795-3452



Regular Degree Programs

International students can also apply (in English) to the degree programs which most Japanese students take. Please find details from the website below

http://www.eng.tohoku.ac.jp/english/ admission/programs.html

Academic Exchange Agreements with Foreign Institutions

University Level : 207

http://www.bureau.tohoku.ac.jp/kokusai/exchangej/scientificj/f2-1.html

School of Engineering Level : 80 http://www.bureau.tohoku.ac.jp/kokusai/exchangej/scientificj/f2-2.html

Tohoku University Alumni "Shuyukai"

The alumni association aims to promote interaction and exchange among its members, thus strengthening ties to the Tohoku University community. The Alumni Association holds Home Coming Days as well as regional gatherings to provide alumni association members the opportunity to connect and remain in touch with Tohoku University. Please find the information on exchange events.

http://www.tohoku.ac.jp/en/alumni/ind ex.html

