



TOHOKU UNIVERSITY

# HELLO FROM AOBAYAMA

School of Engineering  
Tohoku University



No.2

Nov. 28, 2014

New building of Department of Information and Intelligent Systems (2014. 10)

## Message from the Editors

Greetings from Aobayama! We, the members of IEED (Division of International Education & Exchange), are pleased to introduce ourselves to our dear alumni, colleagues at our partner universities, teachers in high schools, and friends. We are an international team consisting of Prof. Keisuke Asai, Prof. Qiang Chen (Chinese), Prof. Ying Chen (Chinese), Prof. Mikiko Nakajima, Assoc. Prof. Hirokazu Moriya, Assoc. Prof. Philippe Gaubert (French), Assoc. Prof. Vinicius Aguiar de Souza (Brazilian), and Res. Assoc. Ai Funayama. See us on our webpage!

## Who are We in IEED

## Research Highlight



The School of Engineering (SoE) of Tohoku University has successfully endeavored to develop space technologies. Space engineering at SoE has always been greatly served by leading professors, such as Professor Yoshida, who is conducting research on space robotics at the Department of Aerospace Engineering. You can see what he has to say in a special issue of "Driving Force" at SoE homepage ([http://www.eng.tohoku.ac.jp/driving\\_force/english/vol1-1.html](http://www.eng.tohoku.ac.jp/driving_force/english/vol1-1.html)). Three other luminaries, Professor Ando from the Department of Electrical Engineering, and Professor Asai and Associate Professor Makihara from the Department of Aerospace Engineering have also been invited to launch the first issue of the SoE periodical Research News of Engineering "Tune" (<http://www.eng.tohoku.ac.jp/media/files/pdf/english/intro/tune01.pdf>) with a focus on space engineering.

## The gateway to space

## Tohoku University (TU) Alumni Aboard

## TU Chinese Alumni Association



The Tohoku University Chinese Alumni Association, which was established in 2006, will celebrate its 8th anniversary at the end of this year. Having more than 500 members all over China, it is proud of being the largest foreign university alumni association in China, as well as the largest TU overseas alumni community in the world. There are more than 60 members who graduated from SoE or had roots in SoE. The "big members" and advisers of the association are the former President of Tsinghua University, Prof. Binlin Gu, and the current President of Peking University, Prof. Enge Wang, both of whom worked at IMR (Institute for Materials Research), TU in the 1990s. The current chair of the association is Prof. Qikun Xue, a famous physicist in the Department of Physics and Vice President of Tsinghua University, as well as a professor in AIMR (Advanced Institute for Materials Research) of TU.

## Completion of New Research Facilities

## Three new buildings now in use



New building of Dept. Civil Eng. and Architecture (2014. 10.)

The Great East Japan Earthquake of March 11, 2011 severely damaged some buildings on campus, three of which were declared unsafe by the authorities and had to be demolished. The professors and students had to move into temporary buildings for the duration of the reconstruction. The long wait of over 3 years for their new facilities and research equipment has finally come to an end with the completion of all three buildings! After a busy period of relocation in Sep. and Oct., all affected personnel have now returned to their research activities and have started to enjoy their new environments.



New building of Dept. Materials Sci. and Eng. (2014. 9.)

## Campus News



### Sports Day

This year, the event took place on May 23, 2014 and was participated in by all departments of the School of Engineering. All students joined the event, either to compete or support their teams. Even the professors were invited to compete! Finally, the Department of Applied Chemistry became the overall winner.

### Open Campus

One of the most important annual Aobayama events is the Open Campus at the end of July. For two days, the campus is visited by many high school students. This is a unique opportunity for public to access all laboratories and to look into the research being conducted. We had a total 7,000 visitors during the two days this year.

### With Robots in Sendai

Tohoku University Engineering Summer Program (TESP) on Robotics was created in 2010 to offer international students a unique opportunity to be involved in cutting edge and pioneering research. The program is divided into a series of English lectures conducted by internationally renowned specialists and hands-on work in leading laboratories on various research topics such as nano-robots and space rovers.



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Study in Japan! Study in Tohoku University!

Realize your dream in Aobayama

# Exchange Programs for International Students in Partner Universities Overseas

## General Information of Exchange Programs and Double Degree Programs

		Field	Language	Eligibility	
				Undergraduate	Graduate
Short Summer Program (TESP, TSSP, TUPE, TUSE, etc.)		Eng., Sci., Culture	English	All (TSSP, TUPE)	All (TSSD)
Exchange Programs	JYPE (Junior Year Program in English)	Eng., Sci., Arg.	English	3 <sup>rd</sup> , 4 <sup>th</sup> year	--
	IPLA (International Program in Liberal Arts)	Liberal Arts, Social Sci.	English	2 <sup>nd</sup> , 3 <sup>rd</sup> year	--
	DEEP (Direct Enrollment Education Programs)	All	Japanese	All	All
	COLABS (Cooperative Laboratory Study Program)	Eng., Sci., etc.	English	--	All
Double Degree Programs	Double Degree Program	Eng., Sci., etc.	English/Japanese	3 <sup>rd</sup> , 4 <sup>th</sup> year (Ecole Centrale Group)	1 <sup>st</sup> year MS 1 <sup>st</sup> , 2 <sup>nd</sup> year PhD

## Academic Exchange Agreements with Foreign Institutions

Tohoku University Level  
Foreign Institutions with Academic Exchange Agreements: 190

<http://www.bureau.tohoku.ac.jp/kokusai/exchange/scientific/en/university-en.html>

School of Engineering Level  
Foreign Institutions with Academic Exchange Agreements: 67

<http://www.bureau.tohoku.ac.jp/kokusai/exchange/scientific/en/department-en.html>

## Information about Each Program

### Exchange Programs

#### JYPE (Junior Year Program in English)

<https://www.cefix.insc.tohoku.ac.jp/ASEP/JYPE/index.html>

Junior (or senior) year students can enroll in exchange programs for one year/fall semester of study at Tohoku University. Courses are provided in fields of science, engineering and agriculture. All lectures are given in English.

#### IPLA (International Program in Liberal Arts)

<http://www.insc.tohoku.ac.jp/cms/ipla/>

Students can study in a variety of Liberal Arts classes taught in English, including Economics, Management, Education, Law, and Literature at Tohoku University.

#### DEEP (Direct Enrollment Education Program)

<http://www.insc.tohoku.ac.jp/cms/index-e.cgi?pg=100915122927=p#Deep>

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)

<https://www.cefix.insc.tohoku.ac.jp/ASEP/COLABS/index.html>

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

Tohoku University students can acquire two degrees at Tohoku University and Tsinghua University (China)

## Admission Information for International Degree programs

- International Doctoral Program in Engineering, Information Sciences, Environmental Studies and Biomedical Engineering:

<http://www.eng.tohoku.ac.jp/english/admission/procedure/doctoral.html>

- International Mechanical and Aerospace Engineering Course (IMAC-G, IMAC-U) Bachelor, Master, Doctoral course:

<http://g30.eng.tohoku.ac.jp/imac/>

- International Materials Science and Engineering Master course (IMSE):

<http://g30.eng.tohoku.ac.jp/imse/>

