

Session B:

Fostering and Recruiting Internationally

Competitive Human Resources

Internationalization of Education: POSTECH Experience

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ABSTRACT

POSTECH was established in 1986 as Korea's first research-oriented science and technology university. Implementing the founding philosophy of educating a small number of bright students in a research-oriented environment, POSTECH has in its short 20-year history, become the top university in Korea and one of the leading science and technology universities in Asia.

In recent years, the idea of internationalization of education has been the subject of much discourse for universities world-wide. Universities are continuously seeking ways to internationalize their campus and curriculum to provide students with a global frame of mind to answer growing demand for talented, globalized individuals.

POSTECH, in its effort, has pursued providing students' opportunities to participate in outbound programs, recruitment of international students and other international activities on campus to enhance their university experience.

With POSTECH's aim to become one of the world's top 20 research-oriented universities by the year 2020, internationalization is a key strategic policy which the university will aggressively pursue.

Internationalization of Education : POSTECH Experience



**POHANG UNIVERSITY
OF SCIENCE AND TECHNOLOGY**

February 2007

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POSTECH Overview

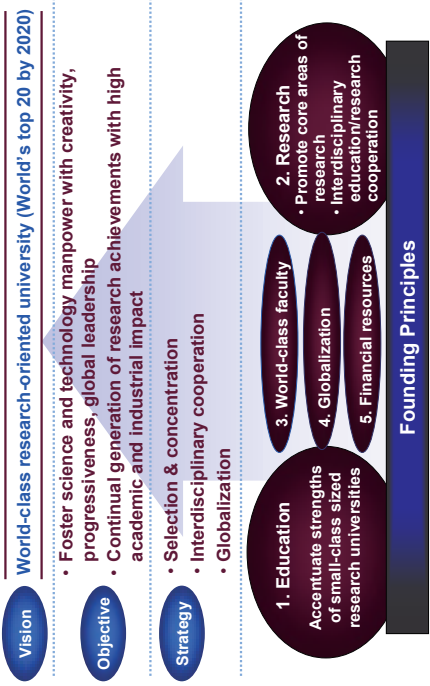


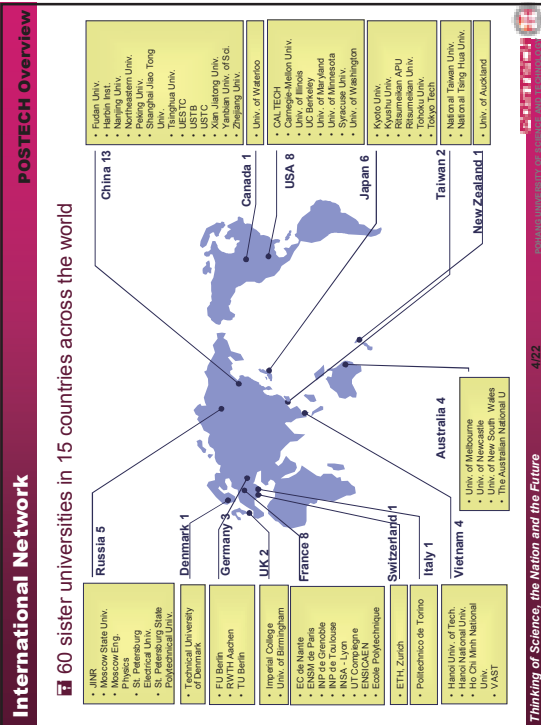
- 📅 Founded in 1986
- 📍 First research-oriented university in Korea
- 📏 1,638,135 m² Land area
325,362 m² Building area
- 👥 Faculty: 229
Researcher: 698
Staff: 206
Student: 2,822 (Graduate 1,505)

(1) PAL: Pohang Accelerator Laboratory
(2) RIST: Research Institute of Industrial Science and Technology
(3) Expected to open in July 2007

- I. POSTECH Overview
- II. Internationalization of Education
- III. Conclusion & Suggestions

POSTECH Vision 2020



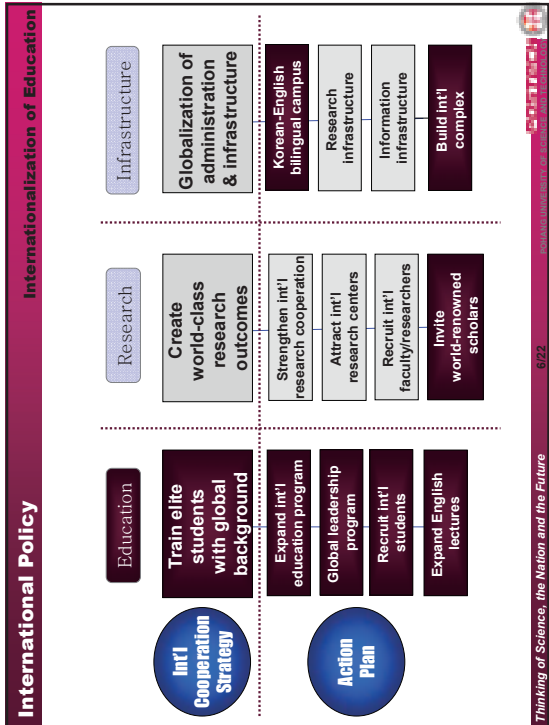


I. POSTECH Overview

II. Internationalization of Education

III. Conclusion & Suggestions

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Expand Int'l Education Programs

Internationalization of Education

- Exchange Program (Semester and Year-long Program)**
In participation with approximately 20 overseas partner universities
1989-2006 Outgoing Students: 290
- Summer Session Program (Summer)**
Courses or language training through summer programs in overseas universities
2004-2006 Outgoing Students: 299
- Language Training Program (Summer & Winter)**
English language training program for early entrance students
2001-2006 Outgoing Students: 299
- Cross Strait Symposium**
Tri-party symposium for graduate students of POSTECH, Busan National University & Kyushu University
1999-2006 Participants: 228

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Expand Int'l Education Programs – Planned

Study Abroad Program (Semester and Year-long Program)

To expand outgoing students for semester & year-long program (students' need)
 Solve the imbalance problem of exchange student numbers
 Student Limit: 10 (annually)
 Cost: Pay tuition fees (negotiable)
 Credit Transfer: Same as exchange program
 Partner University: U of Minnesota, UC Berkeley, U of Columbia and etc

Internship Program (Summer and Winter)

Internship or Research Program at overseas universities
 Exchange students among member countries through IAESTE*
 Student Limit: 20 (annually)
 Cost: Living Expenses & stipend (negotiable)
 Credit Transfer: N/A
 Partners: University, Company, Research Institution

*IAESTE: The International Association for the Exchange of Student for Technical Experience

Global Leadership Programs

Global Leadership Programs for POSTECH Students

Annual Student Camp by 17 AEARU member universities
 1997-2006 Outgoing Students: 64

Bang Doshie Global Expedition
 Funded with an endowment from Mrs. BANG Doshie
 2000-2005 Outgoing Students: 46

Study Tour for Student Leaders
 Visit several universities and research institution abroad
 2004-2005 Outgoing Students: 28

Recruit International Students

Int'l Student Recruiting Activities (Degree-seeking)

Activity	Particulars
Study Fair	Shanghai, Peking, Hanoi, Delhi
Recruiting Visit	Fudan U, SJTU, Zhejiang U, USTC, HIT, Tsinghua U, Peking U, USTB, Nanjing U
Recruiting Visit & Provide English Test	HUT, HUS
Networking Convention	POSTECH-Partner Universities Networking Convention (PNC) 2005
DM	Prospective Students (Campus News, Research Accomplishments, PR Materials, and etc)
Department Visit	Promotional Faculty Group Visit

Planned

Recruit International Students

POSTECH-Partner Universities Networking Convention 2005

Purpose

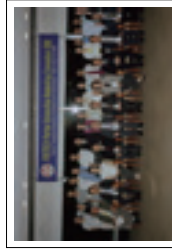
Invite partner universities' administrators
 Introduce POSTECH campus, education environment and degree program
 Exchange ideas and future cooperation

Participants

12 from 10 universities in China and Taiwan
 Fudan U, HIT, Nanjing U, NTU, SJTU, Peking U, Tsinghua U, USTB, USTC, Zhejiang U

Main Program

Campus tour, degree program introduction and department visit
 Meeting with President and home university alumni
 Networking and discuss future cooperation



Int'l Student Enrollment / Department (2002~2006)

Department	2002	2003	2004	2005	2006	Total
Mathematics				1	1	2
Physics	1		1			2
Chemistry	2	2	2	1	3	10
Life Science			1	2		3
MSE	4			2	1	7
IME	1	1	1	1	1	5
IME	1	1	1	1	1	5
EEE	2	3	2	2	3	10
CSE	2	1			1	4
Chemical Eng	2	1			1	4
SEE	3	2	2	5		12
GSIT	1	3	3		1	8
GIPT	9	6	13	15	4	47
Total	28	19	25	30	17	119

Incoming Exchange Program (1988-2006)

General/Exchange Program

- Take courses
- Semester or year-long program

Research Program

- Participate in research projects
- Several months or year-long program

Combined Program

- Combination of the two programs above

Country	Number
USA	25
UK	4
Canada	12
Australia	14
Germany	22
Denmark	1
France	26
Japan	2
China	17
Taiwan	4
Russia	2
Others	11
Total	140

English Lectures (2002~2006)

Year	2003	2004	2005	2006	2007	2010
Undergraduate	14.3%	17%	17.6%	16.8%	30%	100%
Graduate	29.6%	28.3%	26%	33.5%	50%	100%
Total	22%	22.7%	21.8%	25.2%	40%	100%

University Development Key Indicators for POSTECH Vision 2020

Policy to Increase English Lectures

- Korean Government promotes English lectures
- BK21 Program, IT Scholarship
- Recruit international faculty and students
- New faculty are supposed to teach ALL lectures in English
- Provide additional stipend to faculty who gives English lectures
- Promote English seminars and group meetings

Invite World-Renowned Scholars

- Guest Lecture Program
- Invite Fields/Nobel laureates or world-renowned scholars
- Funds for development of science and technology

Year	Area	Lecturer	Position / Prize
1991	Physics	Norman F. Ramsey	Harvard Univ. / '89 Nobel Prize (Physics)
1992	Chemistry	Derek Barton	Texas A&M Univ. / '69 Nobel Prize (Chemistry)
1994	Life Science	Bert Sakmann	Heidelberg Univ. / '91 Nobel Prize (Medical Science)
1995	Mathematics	John Milnor	New York State Univ. / '62 Fields Medal
1997	Physics	Ilya Prigogine	Prigogine Center / '77 Nobel Prize (Chemistry)
1999	Chemistry	Jean-Marie Lehn	Univ. of Louis Pasteur / '87 Nobel Prize (Chemistry)
2001	Mathematics	Efim I. Zelmanov	Yale Univ. / '94 Fields Medal
2001	Political Science	Robert A. Scalapino	UC Berkeley
2002	Life Science	Paul Greengard	The Rockefeller Univ. / 2000 Nobel Prize (Physiology)
2004	Physics	Robert B. Laughlin	Stanford Univ. / '98 Nobel Prize (Physics)
			- POSTECH Chair-Professor
2006	Mathematics	Jean-Christophe Yoccoz	College of France / '94 Fields Medal
	Chemistry	Roderick MacKinnon	The Rockefeller Univ. / 2003 Nobel Prize (Chemistry)

Korean-English Bilingual Campus

- Provide Online Information in Korean/English**
POVIS (POSTECH Vision Information System)
POSTECH website
- Provide Offline Information in Korean/English**
All text books are in English
PR materials, guidebook and official documents
Signboards and placards
- Improve University Administrators' English Proficiency**
One of the important requirements for promotion
Provide overseas language training and experience
POSTECH Language Center

POSCO International Complex

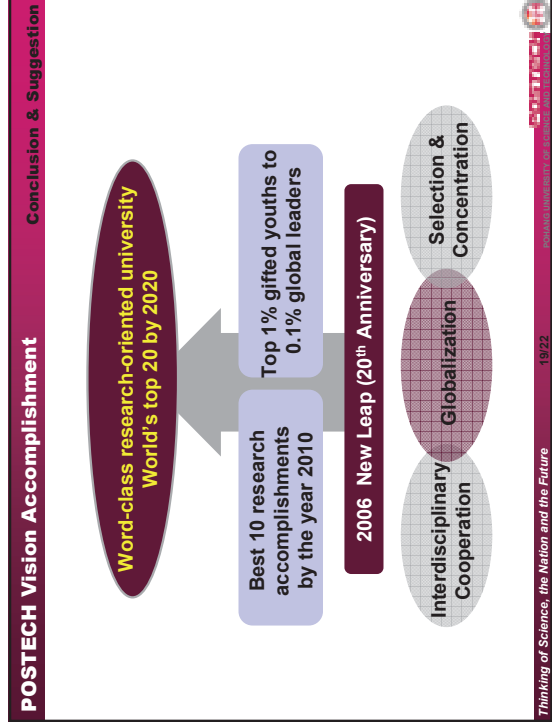
- Purpose: Aid POSTECH in expanding cooperative relationships and enhancing competitiveness among global universities
- Expected completion: July 2007
- Area: 20,491 m² (6 ground, 2 basement levels)
- Main facilities: conference area (convention, accommodation & board, convenience facility)



I . POSTECH Overview

II . Internationalization of Education

III. Conclusion & Suggestions



Suggestions **Conclusion & Suggestion**

AEARU Exchange Programs

Asian community programs among AEARU members

Main Activities

- Student & teacher exchanges
- Joint development of study program
- International intensive program
- Thematic networks between departments & faculties
- Languages courses
- AEARU credit transfer system

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Suggestions **Conclusion & Suggestion**

AEARU Exchange Program

Association of East Asian Research Universities, AEARU
 17 Universities in East Asia from China, Hong Kong, Japan, Korea and Taiwan
 Activities: 10 science & technology workshops and 2 student camps annually

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Q & A **www.postech.ac.kr**

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ISSUES AND CHALLENGES FACING RITSUMEIKAN UNIVERSITY'S POLICIES FOR INTERNATIONAL STUDENTS

~ Focusing On the Recruitment of and Support for Incoming Students ~

Kiyoko TANAKA

Assistant Administrative Manager,
Office of International Education at Kinugasa Campus
Ritsumeikan University

ABSTRACT

1. Transformation of Ritsumeikan University's Exchange Programs in the Past Two Decades

A) Increase in the Number of Partner Schools and International Students

With the goal of globalizing the whole campus under the slogan of "Ritsumeikan University Open to the World" the number of universities Ritsumeikan University (RU) has formed exchange agreements with and that of international students has grown significantly since the opening of the Faculty of International Relations in 1988. Whereas the number of institutions RU had agreements with was only 4 in 4 countries in 1986, it has grown to 260 in 51 area/countries in January 2007. Likewise, the number of degree-seeking international students and that of non-degree short-term international students (students attending RU for 1 or 2 semesters) increased from 60 to 818 and from 6 (from 4 universities in 3 countries) to 124 (from 59 universities in 16 area/countries) respectively during the period between 1986 and October, 2006.

B) Advantages of Student Exchange

Student exchange has a number of positive effects not only on international students seeking educational opportunities in Japan, but also on Japanese students who are given opportunities to interact with these students from different parts of the world, as well as the university itself. The mere presence of international students heightens the awareness of the world for domestic students. Student exchange also has the effect of revitalizing research as well as of strengthening networks among universities around the world. RU is currently working toward the goal of accepting a total of 2,200 international students, including degree-seeking, short-term non-degree-seeking and study tour students, by 2010, which is part of RU's larger drive to create a "multicultural campus".

2. Recruitment of and Support for International Students: Where We Stand and Where We are Heading

A) Recruitment of International Students

As part of its recruitment efforts, RU has participated in the annual Japan Education Fair hosted by the Japan Student Services Organization, held in Japan and overseas, where Japanese universities promote their schools and recruit students from overseas. RU also recruits international students through general admission tests, held twice a year, and a special examination designed for students nominated by Japanese-language schools in Japan.

B) Assistance for Degree-Seeking International Students

Degree-seeking international students receive a number of financial and living assistances from the university and their Japanese peers through tutoring and entertainment activities throughout the year. As part their financial assistance, these students receive partial tuition reductions as well as a partial refund of health insurance premiums, a scheme supported by the Ritsumeikan University Parents Association for Student Education Assistance.

C) Assistance for Short-Term Non-Degree International Students

RU accepts short-term non-degree international students twice a year, in April and September. For these students, RU offers small group intensive Japanese language courses divided into 5 levels, Japanese traditional arts courses taught by the celebrated leaders of Kyoto's traditional arts and courses taught in English. Moreover, RU is providing short-term international students with various living and study assistances by providing them with affordable housing options as well as consultation in Chinese, Korean and English by native speakers of these languages.

D) Challenges Facing RU's Exchange Programs

International students generally have good academic records. The number of international students who find jobs at first-rate companies after graduation has increased sharply in recent years. RU is confident that the international students who attend RU have a great potential to excel in the societies they are from as well as in the larger world. However, RU still faces a number of challenges that need to be addressed, such as problems related to the shortage of housing and the courses taught in English, transfer of credits between RU and students' home universities, and a lack of

scholarship funds for qualified students. Moreover, employment rates and internship participation rates for international students remain low.

3. Challenges in Recruiting Highly Competent Students

A) Difficulties in Recruiting Competitive Students

Japan has entered an era in which the number of students wishing to attend a university almost equals the number of spots available in the existent universities. Therefore, the competition among universities in securing competent students has become more severe than ever before. In that respect, it would hardly be sufficient to rely on the existing entrance examination system to recruit internationally competitive students.

B) Future Tasks

In order to attract the best students, RU needs to improve the quality of classes offered to students, support cutting-edge research and expand economic assistance to qualified students. Moreover, RU needs to take full advantage of the rich educational and cultural history of the greater Kyoto area (where both Kinugasa Campus and Biwako-Kusatsu Campus are located), the highly effective career planning and internship services and the diverse curriculum offered to both undergraduate and graduate students at RU. Only by offering the most attractive educational and living opportunities to students would RU be able to attract the most competitive students in this era of severe competition among universities.

ISSUES AND CHALLENGES FACING RITSUMEIKAN UNIVERSITY'S POLICIES FOR INTERNATIONAL STUDENTS

~Focusing on the Recruitment of and
Support for Incoming Students~

Kiyoko TANAKA
Assistant Administrative Manager
Office of International Education at Kinugasa Campus,
Ritsumeikan University

~OUTLINE~

Recruitment of and Support for Incoming Students

- Transformation in the Past Two Decades
- Where We Stand and Where We Are Heading
- Challenges in Recruiting Highly Competent Students

Past Two
Decades

Transformation in 20 years

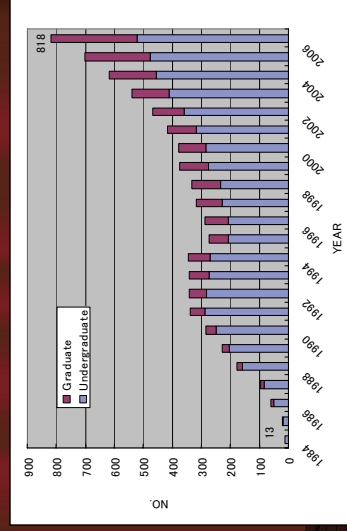
~Advantages of Student Exchange~

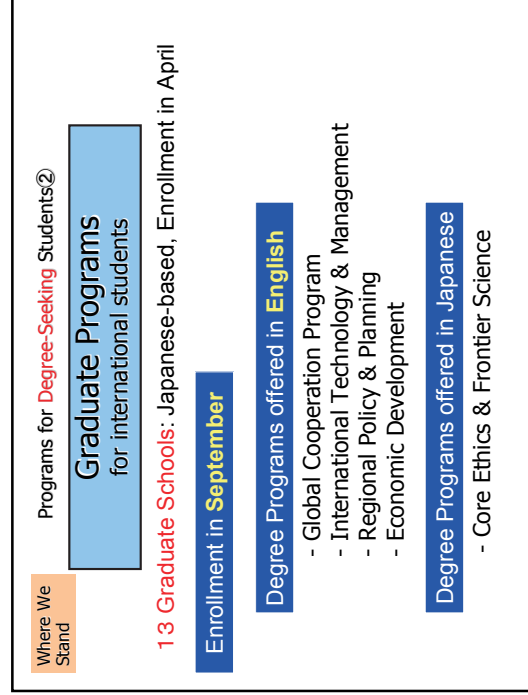
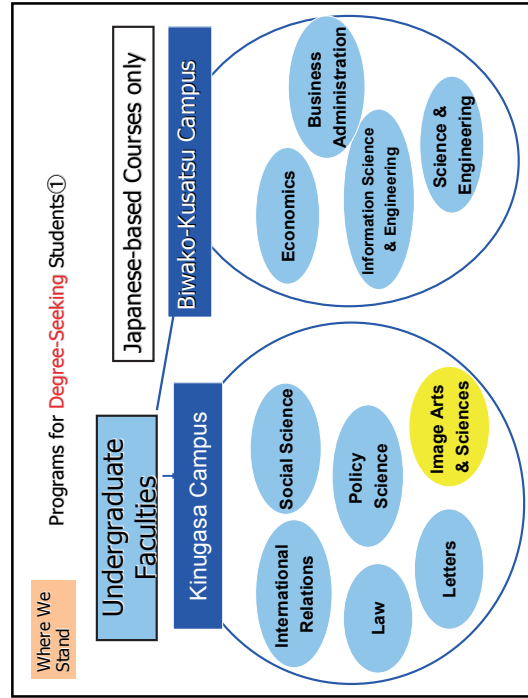
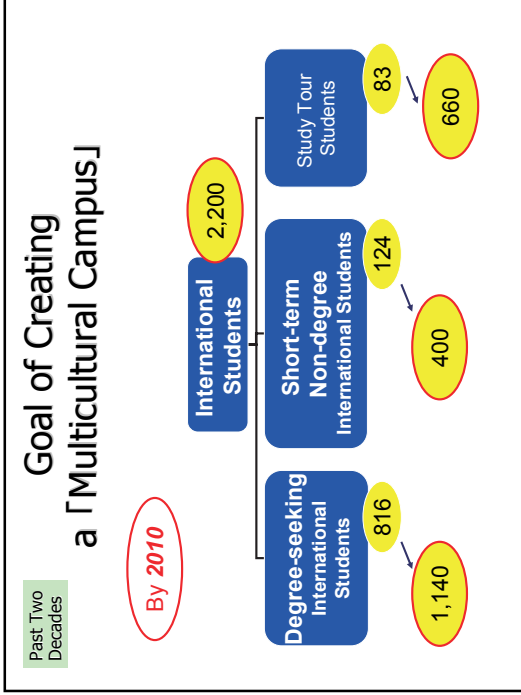
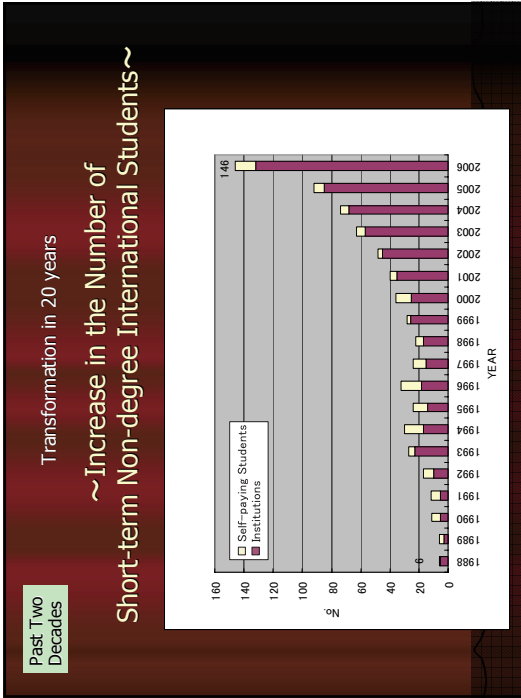
- Contribution to international human resource development
- Benefits for Domestic Students
- Revitalization of Research
- Strengthening of Networks

Past Two
Decades

Transformation in 20 years

~Increase in the Number of
Degree-seeking International Students~





Where We Stand

Recruitment of Degree-seeking International Students

~Recruitment Efforts~

- Participation in Japan Education Fair hosted by JASSO (In Tokyo, Osaka, Pusan, Seoul, Taipei)
- Visit to Japanese language schools
- General admission tests (twice a year)
- Special exam designed for students nominated by Japanese-language schools

Where We Stand

Assistance for Degree-Seeking International Students①

~Financial Assistance by RU~

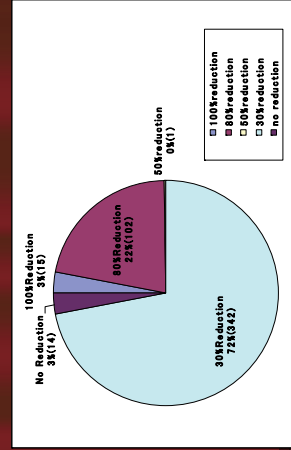
- Partial tuition reduction
- Partial refund of health insurance premiums
- Various scholarships
- Student loans for university expenses

Where We Stand

Assistance for Degree-Seeking International Students②

Partial Tuition Reduction

For self-paying students (474 students in 2005)



Where We Stand

Assistance for Degree-Seeking International Students③

~Percentage of Scholarship Recipients~ Self-paying International Students



Where We Stand

Assistance for Degree-Seeking International Students④

~Living Assistance~

- Pre-entrance Orientation Camp
- Tutoring
- Entertainment Activities
- Consultation

Where We Stand

Assistance for Short-Term Non-Degree International Students①

Study in Kyoto Program (SKP)

Intensive Japanese Language Track

Japan and World Perspectives Track

- Small group Intensive Japanese Language Courses
-
- Courses taught in English
- Japanese Traditional Arts Courses
- Introductory Japanese Language Courses

Enrollment in April & September, 1-2 semesters

Where We Stand

Assistance for Short-Term Non-Degree International Students②

~Living & Financial Assistance~

- 4-day orientation
- International House I & II
- Consultation in Chinese, Korean and English
- Scholarships
- Full access to the university facilities: library, internet, gym, medical center, etc.

Where We Stand

ISSUES

Facing RU's Exchange Programs

Degree-seeking

- Lack of Scholarship Fund
- Lack of Networking Opportunities
- Low Employment Rate
- Low Internship Participation Rate

Short-term Non-degree

- Shortage of Housing
- Lack of Courses Taught in English
- Transfer of Credits

Challenges

Challenges in Recruiting Highly Competent Students①

RU's Advantages

- Rich educational & cultural history of the greater Kyoto area
- Highly effective career planning & internship services
- Diverse curriculum
- Active extracurricular activities
- More than 100 year's history

Challenges

Challenges in recruiting highly competent students②

Future Tasks

Education

- **Improving the quality of classes**
e.g., Teaching, Bridging the gap between research & education, Diversity of courses in English, Class evaluation
- **Starting new courses**
e.g., Additional Japanese language courses, Internship program for short-term international students
- **Creating an internationally compatible system**
- **Support for cutting-edge research**

Challenges

Challenges in recruiting highly competent students③

Future Tasks

Student Support

- **Support for Job Placement**
e.g., Support for Career Seeking Activities, Encouraging Internship participation
- **Alumni Networking**
e.g., Organizing Alumni, Strengthening the overseas offices
- **Expanding Financial Assistance**
e.g., Securing Scholarship Funds
- **Securing New Housing**

Thank you for your attention!



Ritsumeikan

Our Educational Philosophy
Peace & Democracy

University

If First & Best, it's surely **KAIST!**

KAIST/UNESCO Program for Human Capacity Building

Globalization

Relatively young university (founded in 1971), but gained rapid international fame. Wants to go further in globalization

- ❖ Increase the number of foreign faculty
- ❖ Increase the number of foreign students
- ❖ Implementation of dual degree programs
- ❖ All lectures given in English for Freshmen
- ❖ Setting up bilingual campus
- ❖ Internationalization KAIST culture

Evaluation & Achievement

- ❑ Asian Ranking by ASIaweek *
 - 1999 & 2000 : First in "Best Universities in Asia in Science and Technology"
- ❑ World Ranking by the THES**
 - 2004 : top 37th in ICT**** field
 - 2005 : top 42nd in Technology field
 - 2006 : top 37th Technology field
 - 2006 : top 82nd in Science field
- ❑ World Ranking by CACM****
 - 2006 : First in System & Software Engineering
- ❑ Scientific Citations per Paper
 - Technology = 1.92 Science = 6.67

* ASIaweek : a journal published by the CNN in Hong Kong
 ** THES : The Times Higher Education Supplement
 *** ICT : Information and Communication Technology
 **** CACM : Association for Computing Machinery

Budget 2006

Approx. 327 Million USD

Global Budget for International Activities:
 2.6 millions USD for overall, half million + α USD for office running

Faculties & Staffs

Professors	296	
Associate Professors	72	421
Assistant Professors	52	
Full-Time Instructor	1	
Professors Emeriti	38	687
Research Professors	34	266
Adjunct Professors	26	
Part-Time Professors	168	
Admins & Supports	324	
Teaching Assistant & Graduate Instructors		ca. 2,500

More than 1000, the number of faculty to make the ratio faculty to student be 1:6 in near future

Korea Advanced Institute of Science and Technology

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Enrollment 2006

Total: 7,336 students

	Students	females	non-Korean
BS	3,021 (41.2%)	663 (22.0%)	72
MS	2,089 (28.5%)	408 (19.5%)	78
PhD	2,226 (30.3%)	295 (13.3%)	79
total	7,336 (100%)	1,366 (18.6%)	229 (3.1%)

Number of non-Korean students : 500 by the year 2010

Korea Advanced Institute of Science and Technology

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Globalization

Types of Cooperation :

- Student Mobility
- Student OJT and Research Internship
- Joint Degree Programs
- Joint Research Programs
- Export of Know-How in Educational Engineering
- Student Placement & Scholarship Programs
- Value-added International Activities

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Globalization

Students are the client, as well as the product of KAIST

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Globalization

International Relations for Students is one of the high value added educational process whose basic philosophy is as below

	knowledge	experience	human networking
Social Culture & Systems	★	★	★
Industrial/biz culture	★	★	★
Language	★	★	☆

Non-movers can also be internationalized by the presence of massive incoming foreigners, and lectures in foreign language.



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KAIST-UNESCO COOPERATION




ACCESS-net
Association of Computer Centers for Sustainable Synergy - network



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Philosophy

Training of students in an environment of international teamwork to meet challenge of scientific, technological and human cultures that are different from their own :

- ❖ to develop their capability of adaptation to the international scientific and engineering environment
- ❖ to develop their capacity of innovation in science and technology
- ❖ to develop the autonomy and opening of their vision to the new frontier
- ❖ to provide them with chance to create natural friendship
- ❖ to give a true international dimension to KAIST by establishing a truly internationalized educational environment
- ❖ to create true bilingual campus
- ❖ to extend world widely the zone of influence of KAIST through "Training of Trainers"



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Conditions

Project FFF : Fifty Foreign High School Graduates

Conditions:

- Not older than a year
- English speaking
- Excellent school records
- Profile of future leader of the country



Korea Advanced Institute of Science and Technology

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Benefits

Scholarships

N°	Item	amount (US\$)	Comment
1	Tuition	15000	exemption
2	Parent Trust Fund	2000	exemption
3	Medical Insurance	410	proxy payment
4	Allowance	3600	paid 300\$/month
5	Settling-in Allowance	2500	paid 200\$/month first year only
	First year	23410	balance: +2695 \$/year
	Second year and after	20715	balance: +295\$/year

*Note: Tuition fees vary according to students academic performance of the previous year.
Monthly allowance of 300\$ covers largely boarding & lodging fees.*

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KAIST-UNESCO COOPERATION

UNESCO's Worldwide Network

Get help from its organization and competency

- over 220 countries
- all delegation in one place
- good cooperation with educational authority
- easy help from educational specialists

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KAIST-UNESCO COOPERATION

Cooperation Work

- selection of target countries
- coordination with national commission
- announcement among students
- face-to-face interview
- evaluation and pre-selection
- admission panel

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Result of Operation

Country	Applicants	Admitted	%
Azerbaijan	8	4	50
Bangladesh	1	1	100
Brazil	1	1	100
Chile	1	1	100
China	8	5	62.5
India	1	0	0
Iran	1	0	0
Kazakhstan	1	1	100
Pakistan	14	2	14.3
Romania	7	1	14.3
Rwanda	4	1	25
South Africa	1	0	0
Tajikistan	9	2	22.2
Ukraine	11	6	54.5
Uzbekistan	13	4	30.8
Vietnam	24	18	75
Total	105	47	44.8

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Accomplishments

Direct Outcomes

- time saving
- cost saving
- students of highly motivated and qualified
- promotion of KAIST
- sustainable cooperation
- zone of influence



Korea Advanced Institute of Science and Technology

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Thank You !



Tohoku University's Strategy for Human Resources

Hideaki Hirayama

Director, International Exchange Division

Tohoku University

ABSTRACT

Tohoku University enacted Principles of Strategy for International Exchange on 8 March 2005 and we have established GOC (Global Operations Centre) on the first day of June 2005 supported by the Ministry of Education, Culture, Sports, Science and Technology.

The Centre will be an administrative headquarters for all matters related to international exchanges, and will serve to devise and put into action a united set of strategies in all faculties.

The Center is aimed to create an environment for academic staff to make Tohoku University as an internationally competitive university with highly acclaimed world-class research and education and to ensure the university is well-equipped to maintain a position of excellence in the global academic community.


Last year, Tohoku University introduced a Double Degree Programs with French Grandes Ecoles and Joint Educational Program with Tsinghua University in China to promote exchange of well-selected students with Prominent Educational Institutions overseas.



Tohoku University
Strategy of Human Resources

at Aoyama University
 11 February 2007

Hideaki Hirayama
 Director of International Exchange Division
 Tohoku University





TOHOKU UNIVERSITY Sendai, Japan


Location of the City of Sendai

- In the North-East of Japan
- Distance from Tokyo 350km
- Travel time from Tokyo (by bullet train) 1h35m

Population of the City
 1,025,647




1




TOHOKU UNIVERSITY Sendai, Japan

Sendai is surrounded by natural beauty:




Matsushima, a picturesque seacoast.

2



TOHOKU UNIVERSITY Sendai, Japan

Sendai is a capital city in the Northern part of Japan



The site of Aoba Castle, where Tohoku University is located.

3



Founded in 1907 as the 3rd Imperial University



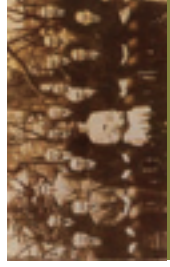
Founder of the modern Chinese literature, Lu Xun ("Rajin"), entered Tohoku U. in 1904.



Dr. Albert Einstein visited Tohoku University on Dec. 3, 1922.



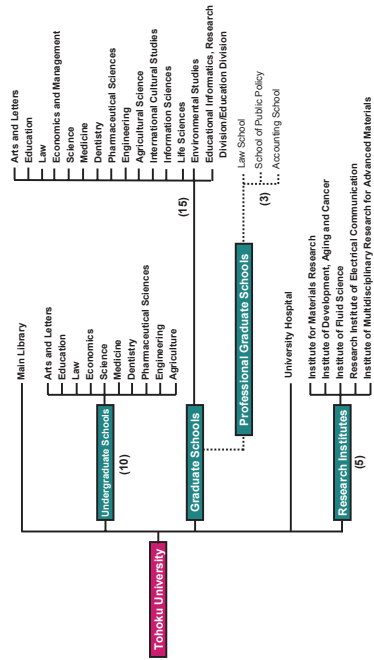
Chika Kinoda, the first woman, Tohoku U. admitted a female student for the first time among all the national universities in Japan in 1913.



Dr. Niels Bohr and Mrs. Bohr visited Tohoku University on May 2, 1937.



Research and Education Organization



Location of the Campuses in Sendai City



TOHOKU UNIVERSITY Sendai, Japan

Number of Board Members and Staff
As of November, 2006

President	1
Executive Directors	7
Auditor	2
Faculty Members	2,699
Administrative and technical staff	2,436
Total	5,145

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TOHOKU UNIVERSITY Sendai, Japan

Number of Students
As of May, 2006

Undergraduate	10,815
Master	4,175
Doctor	2,870
Total	17,860

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TOHOKU UNIVERSITY Sendai, Japan

Major research projects of Tohoku University

The 21st Century COE Program(13)

Future Medical Engineering based on Bio-nanotechnology	International Center of Research & Education for Unexplored Chemistry
International Center of Research & Education for Materials	System Construction of Global-Network Oriented Information Electronics
System Construction of Global-Network Oriented Information Electronics	Center for Innovative Therapeutic Development for Common Diseases
Exploring New Science by Bridging Particle-Matter Hierarchy	Advanced Science and Technology Center for the Dynamic Earth
Advanced Science and Technology Center for the Dynamic Earth	International COE of Flow Dynamics
Center for the Study of Social Stratification and Inequality	Gender Law and Policy Center
Comprehensive Research and Education Center for Planning of Drug Development and Clinical Evaluation	

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TOHOKU UNIVERSITY Sendai, Japan

Mr. Koichi TANAKA, Nobel Laureate

Koichi Tanaka – Prize Award Photo



Photo: Hans Mahlin, Nobel e-Museum

- 1959 • Born in Toyama, Japan
- 1983 • Graduated from Department of Electrical Engineering, School of Engineering, Tohoku University
- Researcher in Shimadzu Corporation
- 2002 • The Nobel Prize in Chemistry 2002
- “The development of methods for identification and structure analyses of biological macromolecules”
- Honorary Doctor of Tohoku University

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Citations

National Ranking	International Ranking	Field	Citations	Papers
1	2	Materials Science	25,185	4,554
2	14	Physics	89,139	9,762
5	21	Chemistry	53,301	5,919
4	72	all fields	302,547	36,583

Resource: ISI Essential Science IndicatorsSM, Jan. 1995 – Apr. 2005

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Principles of Strategy for International Exchange

Promote the worlds highest standards of research through active participation in an international academic network

Invite and gather the highly motivated, capable and talented individuals from all over the globe and cultivate international leaders who can contribute to the advancement of world development.

Communicate our accomplishments in education and research internationally and contribute them to the international community

Strengthen the foundations of research and education and increase the university's international recognition to support realization of the three above goals

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Global Operations Centre (GOC)

Establishment

Global Operations Centre (GOC) was established on June 1st, 2005 as the base for international strategy of Tohoku University, financially supported under the "Strategic Fund for Establishing International Headquarters in the Universities" Program of the Ministry of Education, Culture, Sports, Science and Technology.

Function

This Centre will be the administrative headquarters for all matters related to international exchanges and will serve to devise and activate a united set of strategies in all its facilities.

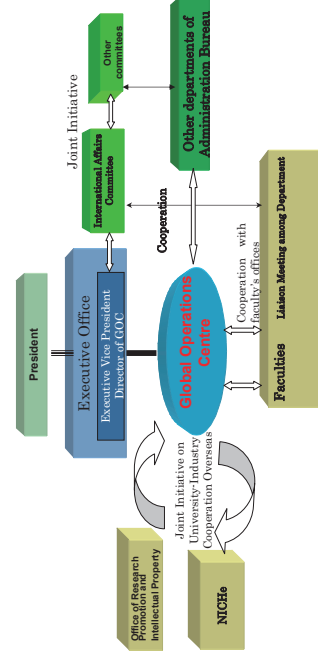
Purpose

The Centre is aimed to create an environment for academic staff in establishing Tohoku University as an internationally competitive university highly acclaimed with world-class research and education and to ensure that the university is well-equipped to maintain a position of excellence in the global academic community.

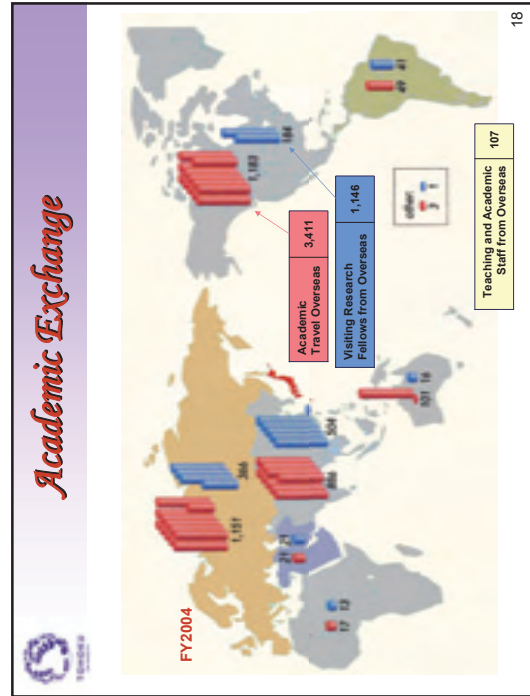
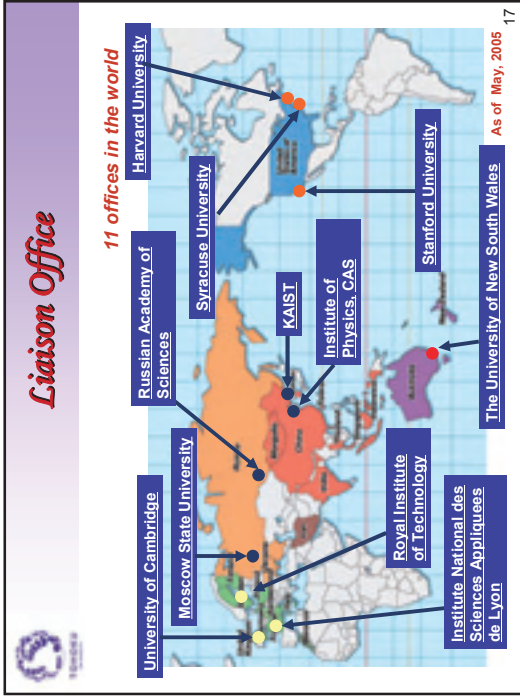
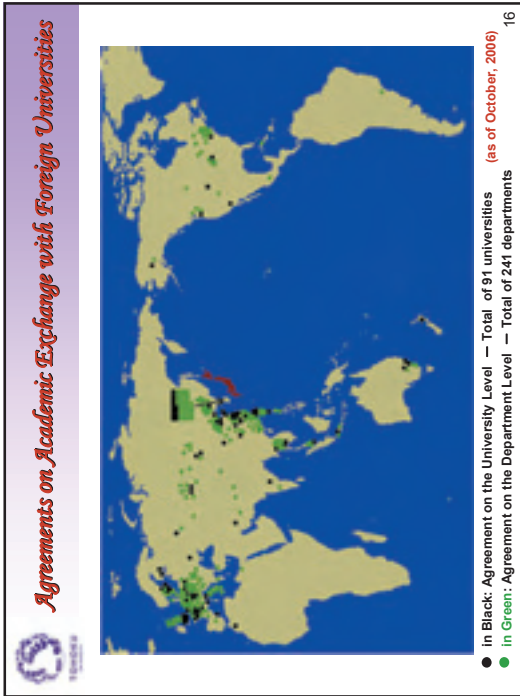
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Global Operations Centre (GOC) structure



15

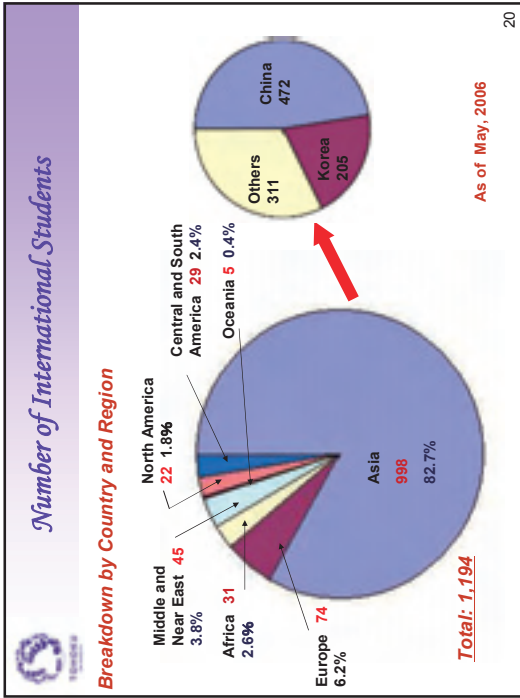


TOHOKU UNIVERSITY Sendai, Japan

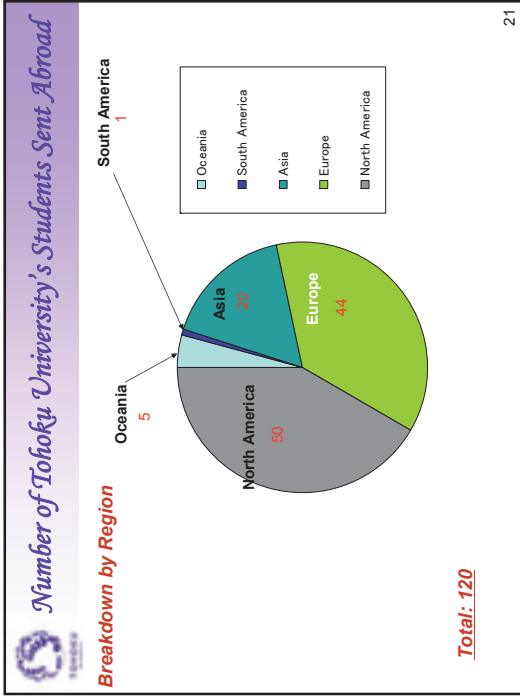
Number of International Students

As of May, 2006

Undergraduate School	126
Graduate school	778
Others	290
Total	1,194



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**How to foster students
Interact with
global academic community actively**

- Participation in Conventional Exchange Program**
 - Collège doctoral franco-japonais (with French government) Programme 8
 - Short-term (within 1 year) exchange with partner universities
- New Joint Educational Initiatives with Prominent Higher Educational Institutions overseas**
 - Double Degree Programs with French Grandes Écoles
 - Joint Education Program with Tsinghua University
- Providing of Scholarships and the practical language training courses** (some significant issues still remain to be resolved)

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**Exchange of well-selected students with
Prominent Educational Institutions overseas**

- Double Degree Programs with French Grandes Écoles**

These programs allow French and Japanese Students to obtain a Master Degree of Engineering or Science from Tohoku University and Diplôme d'Ingénieur from French grandes écoles simultaneously.
- Joint Educational Program with Tsinghua University(China)**

This program allow Chinese Students to obtain a Master degree of Engineering or Science from Tohoku University within a period of a year, and a half by transferring acquired credits from Tsinghua University, and vice versa for Japanese Students.

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Broader-Based Global Exchange

Grandes Écoles and other universities in EU

Double Degree programs with French Grandes École (Écoles Centrale Group, INSA-Lyon)

Key Universities

Joint Educational Program with Tsinghua University

Tohoku Univ.

to be expanded to other major universities in EU

to be expanded to other key universities in China

Hopefully together with other major Japanese universities forming a consortium for a broader participation of Japanese universities

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Joint Education Agreement with Tsinghua University

25

Agreement for Educational and Academic Cooperation with Écoles Centrale Group

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TOHOKU UNIVERSITY Sendai, Japan

The 100th Anniversary of Tohoku University in 2007

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Target Goal

Tohoku University is aiming to become a “World’s Leading University” amongst the top 30 in the world.



Akihisa Inoue
President and Academician
Tohoku University

International Academic Exchange at National Tsing Hua University

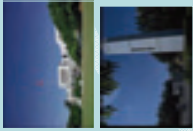
Shih-Lin Chang

National Tsing Hua University, Hsinchu, Taiwan 300

ABSTRACT

To achieve academic excellence and broaden educational spectra, international academic exchange is one of the main focuses on which almost every university has put on a lot of efforts. At Tsing Hua University in Hsinchu, Taiwan, the international academic exchange program has been the major task of the Division of International and Continuing Education, which is under the Office of Academic Affairs. In this presentation the missions and strategies of this international program will be described and the current status be reported. Issues and challenges in promoting and pursuing international academic exchange will be also addressed.

International Academic Exchanges at National Tsing Hua University



Shih-Lin Chang
National Tsing Hua University, Hsinchu, Taiwan

2. 01, 2007

National Tsing Hua University

1

Outlines

- Missions
- Statistics of international students
- Statistics of exchange students
- Strategies
- Future goals
- Issues and suggestions



National Tsing Hua University

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Missions

- Achieve academic excellence recognized internationally
- Train outstanding students with global view
- Encourage students to study abroad
- Recruit more international students
- Enhance teaching and research excellence



National Tsing Hua University

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Statistics of International Students

2004-2006 Profile of International Students

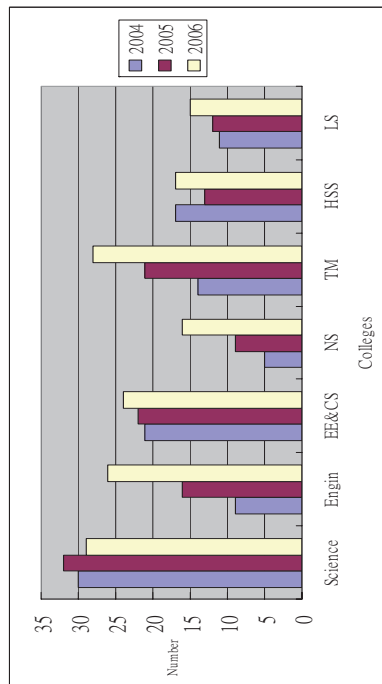
Year	Number of International Students			Total	Students of NTHU	Ratio of International Students at NTHU
	Bachelor	Master	Doctoral			
2004	23	40	44	107	10265	1.04%
2005	25	47	53	125	10640	1.17%
2006	33	60	62	155	11014	1.41%

- Goal : Increase 50 international students per year and reach 3% ratio in 2010

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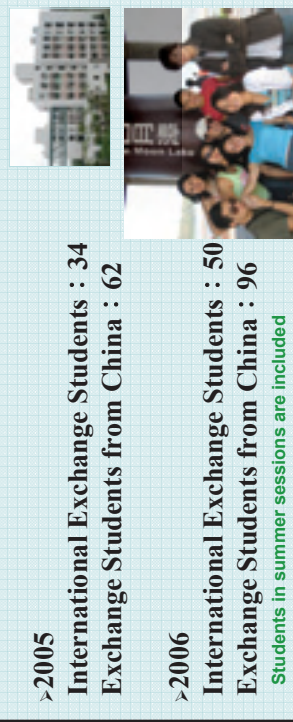
Statistics of International Students



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Statistics of Int'l Exchange Students

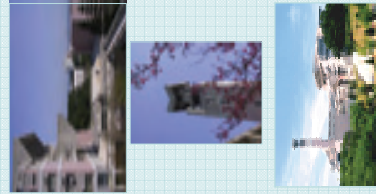


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National Tsing Hua University

Strategies

- > Develop dual degree programs
- > Scholarships for studying abroad
- > Scholarships for studying in China
- > Scholarships for international students
- > On-line application system for international students
- > Offer programs specifically for International students
- > Encourage faculties to teach courses in English
- > Tuition waive for exchange students
- > Establish offices for international affairs



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National Tsing Hua University

Strategy: Develop Dual Degree Programs

Department / Institute

- National Tsing Hua University
- > Physics
 - > Materials Science and Engineering
 - > College of Electrical Engineering and Computer Science
- Linkoping University (Linkoping Institute of Technology)
- Master's Program in System-on-Chip for Communication and Media (SOCWARE)
 - Master's Program in Materials Physics and Nanotechnology

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National Tsing Hua University

Strategy: Develop Dual Degree Programs

Degree Plan and Requirements

- > Study Abroad : First semester of senior year
- > Study Period : 2 years
- > Degree Requirements : Complete undergraduate courses in NTHU
Take graduate level courses and thesis in Linkoping University
- > Degree Awarded: Bachelor of National Tsing Hua University
Master of Linkoping University

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Strategy: Scholarship for Studying Aboard

NTHU Scholarship for International Exchanges

- > Objective : students gain global view and international experiences
- > Qualification : sophomores
- > Quota : 8 students per year
- > Study period : one year



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Strategy: scholarship for Studying Aboard

MOE Taiwan Merit Scholarship

- > Objectives : students enhance research experiences, skills, and/or knowledges
- > Qualification : undergraduate and graduate students
- > Study period : 3 months to 1 year
- > Visit labs and/or take non-degree courses

National Tsing Hua University

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Strategy: Scholarship for Studying Aboard

- > Objective : academic exchanges between Taiwan and China
- > Qualification : sophomores or juniors
- > Quota : 60-70
- > Study period : 6 weeks in summer session
- > NTHU establishes the exchange program of undergraduate research with the following 10 universities in China
 1. Peking University
 2. Tsinghua University
 3. Fudan University
 4. Lanzhou University
 5. Soochow University
 6. Zhe-Jiang University
 7. Harbin University
 8. Xian Jiaotong University
 9. China University of Sci.& Tech.
 10. Shandong University



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Strategy: scholarship for Studying Aboard

- >Taiwan Scholarship
2006 Recipients : 37
- >Scholarship of International Cooperation and Development Fund (ICDF) 2006 Recipients : 23
- >Scholarship of Taiwan International Graduate Program (TIGP) 2006 Recipients : 19
- >Tsing Hua International Student Scholarship
2006 Recipients : 59

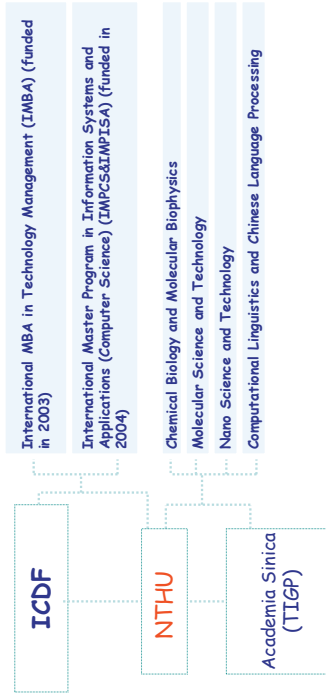
89% of international students receive one of the scholarships.

Strategy: On-Line Application System for International Students



Strategy: International Programs

NTHU cooperates with ICDF and Academia Sinica to establish programs in English



Strategy: International Programs

Number of Students in ICDF's Program

Year	IMBA	IMPCS	IMPISA
2003	5		
2004	4	2	
2005	7	3	
2006	7	IMPICS is renamed as IMPISA	6

Strategy: Courses Offered in English

11% of Courses Offered in English in 2006

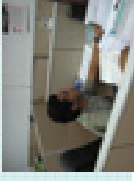
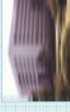
Academic Year	Courses Offered in English (Professional Courses)	Number of Courses Offered (Professional Courses)	Ratio of Courses Offered in English (Professional Courses)
2006 Spring Semester	142	1363	10.4%
2006 Fall Semester	158	1385	11.4%

> Incentive for offering courses in English (one of three)

- Financial support for TA's
- Financial support on teaching materials
- 50% more course credits

Strategy: Tuition Waive and Scholarship for Exchange Students

- > Application deadline : six weeks prior to the study
- > Study period : fall semester, spring semester, and/or summer session
- > Students from sister universities can waive tuition and credit fees
- > Exchange student scholarship

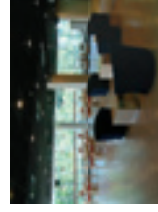
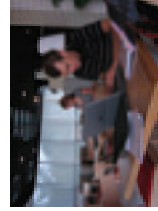


Strategy: Offices for International Affairs

Office	Function
Office of Research and Development Division of Academic Cooperation	* MOU and agreements with sister universities and research institutes * Guest visit
Office of Academic Affairs Division of International and Continuing Education	* Admissions for international students and exchange students * Documents for visa applications * Scholarships for studying abroad
Office of Student Affairs Division of Oversea and Foreign Student Affair	* Provide assistance in living, international student activities, and etc. * Scholarships for international students

University Center on International Affair for the coordination of international affairs

UCIA



University Center of International Affairs

Goals

Number of International Students Reaching 3%



15% of Courses Taught in English

Achieve Academic Excellence Recognized Internationally

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Issues and Suggestions (1/6)

- ◆ **Not many people are familiar with NTHU, which limits the number of international applications.**
 - Aggressively attend education fairs and visit foreign universities to recruit international students.
- ◆ **Tuition and living expenses in NTHU might be expensive for international students from developing countries.**
 - Provide scholarships and part-time jobs for international students.

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Issues and Suggestions (2/6)

- ◆ **Students from some countries are difficult to obtain Taiwan visa.**
 - Ministry of Education should help international students to resolve any visa problem.
- ◆ **Only 10% of all courses are offered in English.**
 - Provide more incentives for professors to offer courses in English and also more learning tools for local students to get used to English.

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Issues and Suggestions (3/6)

- ◆ **Mathematics and science backgrounds of some admitted international freshmen are not comparable with the backgrounds of local students.**
 - Design mathematics and science evaluation sheets for international applicants to answer voluntarily.
- ◆ **Courses in listening, speaking, reading, and writing Chinese language for international students are needed.**
 - Establish more such courses to help international students to fit in Taiwan culture and the campus life.

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Issues and Suggestions (4/6)

- ◆ The required General Education courses such as History, Constitution, and Sociology are very difficult for some international students.
 - Revise course requirements such that international students can take Chinese language courses instead of the General Education courses.
- ◆ Dormitories do not have sufficient facilities to accommodate different cultures and living habits of international students.
 - Build or remodel dormitories in the consideration of international students.

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Issues and Suggestions (5/6)

- ◆ Most documents and University regulations do not print in English.
 - Require all documents and regulations to have English versions.
- ◆ Few living and travel information such as food menu and directions are created specifically for international students.
 - Encourage local students to collect materials and establish web sites that provide information for foreigners.

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Issues and Suggestions (6/6)

- ◆ Tuitions of foreign universities may not be affordable for our students.
 - Establish more sister universities with MOU that offers tuition waive for our exchange students.
- ◆ Our students do not have strong motivation to study aboard.
 - Encourage students to study aboard by providing more scholarships, English learning courses, and international fairs.

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Thank you

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