

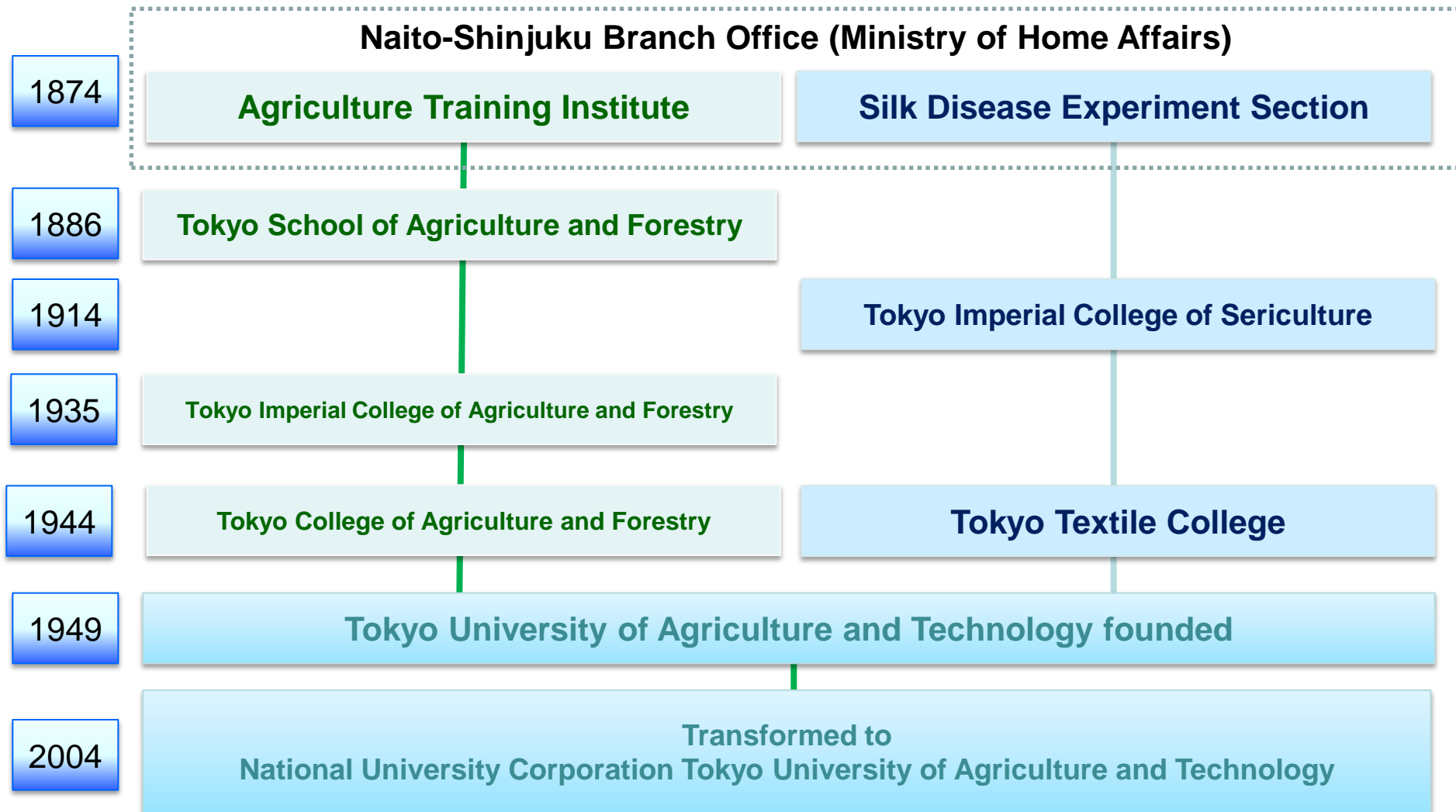
A Life-long e-learning system for foreign vocabulary acquisition

Keiichi Kaneko

*Tokyo University of Agriculture and
Technology*

IAIT 2012 Plenary Talk, 7 Dec. 2012

History of TUAT



Fundamental Principles of TUAT

“MORE SENSE”

Mission **O**riented **R**esearch and **E**ducation giving **S**ynergy in
Endeavors toward a **S**ustainable **E**arth

TUAT Vision

(from Second Mid-Term Goals)

TUAT's vision for the next 10 years is based on the following fundamental concepts:

『A Science and Technology University that Develops People, Clears the Way for Technology, and Contributes to our World』

- ① Fostering exceptional talent that will take on a leading role in global society
- ② Promoting and creating high-level knowledge as a research-oriented university of science and technology
- ③ Contributing comprehensively to public welfare and a lifestyle of wealth and knowledge through solving global problems that threaten humanity and constructing and developing a basis for industrial technology

Organization

G.S. of Agriculture
(Master's C. 9 departments)

United G.S. of Agr. Sc.
(Doctoral C. 5 departments)

United G.S. of Veterinary Sc.
(Doctoral C.)

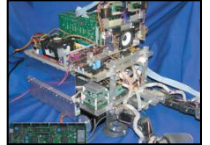
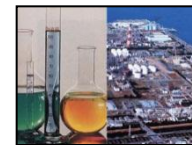


Graduate
Schools

G.S. of Engineering
(Master's C. & Doctoral C. 6 departments)

G.S. of Bio-Applications and Systems Engineering
(Master's C. & Doctoral C. 2 departments)

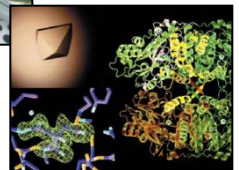
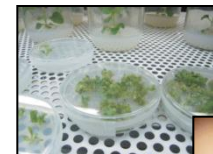
G.S. of Technology Management
(Master's C. 1 department)



Under
Graduate
Schools

Faculty of Agriculture (5 departments)

Faculty of Engineering (8 departments)



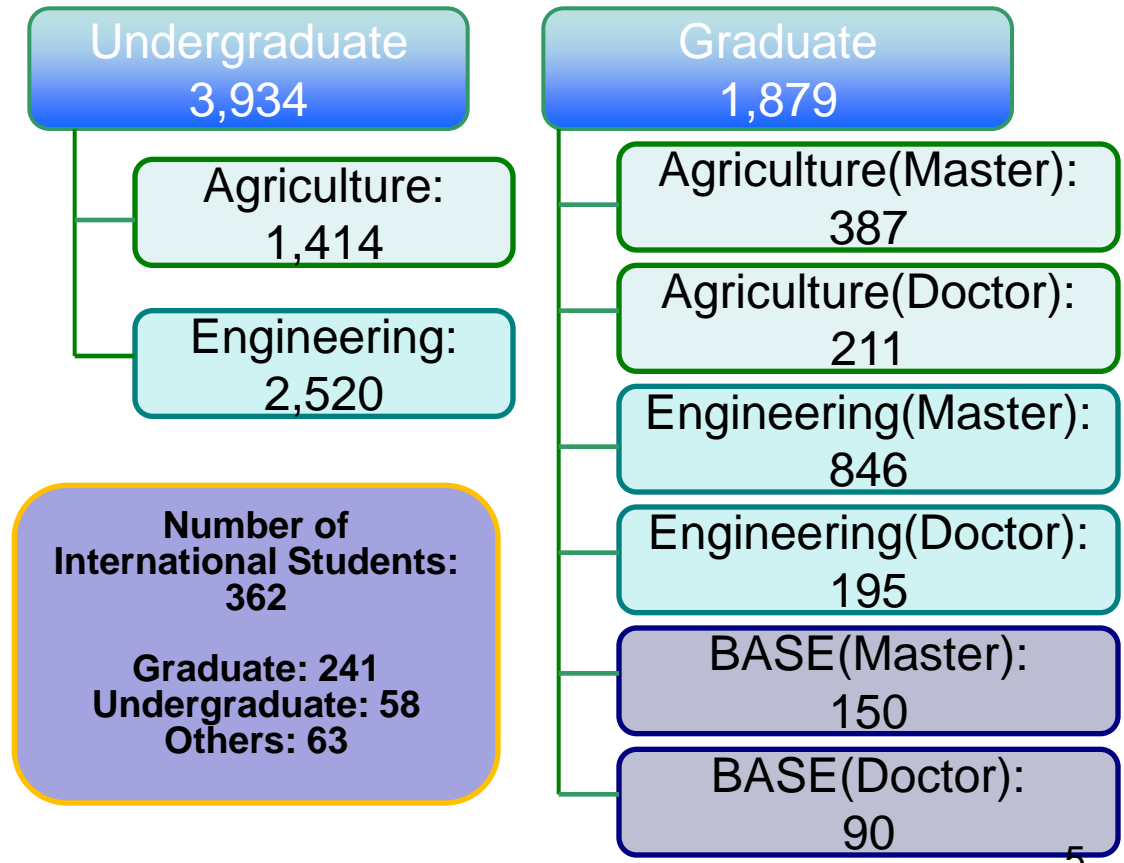
Number of Staff and Students

As of May 1st 2012

Staff

President	1
Vice-President (Trustees)	4
Auditors	2
Faculty	416
Technical Staff	58
Research Administrator	6
Administrative Staff	150

Students



Global Partner Universities



Global Partner Universities

- Middle East: 2
- Asia: 47
- Africa: 3
- Europe: 17
- North America: 7
- South America: 2

Supporting International Students



i-Center (International Center)



On campus accommodation



Japanese Language and
Intercultural Programs



Field Trip

Ranking of TUAT in Japan

Top 400 - The Times Higher Education World University Rankings 2011-2012

Domestic Ranking	World Ranking	University	Overall Score	Teaching	Int'l Outlook	Industry Income	Research
1	30	Univ. of Tokyo	74.3	86.1	23.0	76.6	80.3
2	52	Kyoto Univ.	64.8	76.4	21.1	71.7	72.0
3	108	Tokyo Inst. Tech.	52.8	56.0	24.9	66.3	58.9
4	119	Osaka Univ.	51.0	61.8	21.1	75.0	56.5
5	120	Tohoku Univ.	50.8	57.7	25.6	78.9	55.7
6	202	Nagoya Univ.	41.0	45.5	21.2	33.1	39.2
7	237	Tokyo Metro. Univ.	36.1	19.0	17.8	27.6	10.3
8	261	Tsukuba Univ.	34.3	37.2	27.2	32.0	26.2
9	271	Kyushu Univ.	33.5	46.8	19.5	75.1	30.7
10	284	Tokyo Medical and Dental Univ.	32.5	44.5	18.8	38.7	34.3
11	288	Hokkaido Univ.	30.0	42.8	18.0	40.8	22.6
12	346	Keio Univ.	26.5	32.3	18.3	40.0	21.9
13	371	Waseda Univ.	24.4	25.4	27.1	27.3	17.3
14	387	Kobe Univ.	22.6	28.3	18.1	33.5	15.5
15	397	Tokyo Univ. Agri. and Tech.	21.6	26.5	18.0	41.5	15.8
15	397	Hiroshima Univ.	21.6	27.7	18.8	39.4	16.3

Patent Income of TUAT



Patent Income No. 1, Surprising Univ. Name and the Secret.

ライフ

引用ブログ (6件) ツイート 412 いいね! 1,110

特許収入No. 1の意外な大学名 その秘密は？

2012.8.1 17:41 【教育】

The correct answer is TUAT.

「特許収入ランキング」で国内トップの大学はどこか。多くの人が東大や京大をはじめとする旧帝大グループを思い浮かべるだろう。正解は「東京農工大」（東京都小金井市）。意外な結果と受け取るなかれ。他の有力国立大学にはない自由で進取の学風が影響しており、決して“ブロック”ではない。



「産学連携」を掲げ、特許収入で国内大学トップに立つ東京農工大（同大提供）

Liberal and innovative school spirit

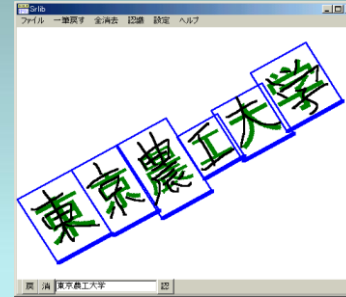
や研究機関など各方面からの評価は高いのだ。

Dept. Comp. & Inf. Sci.

Intelligent Inf. Support

Image Processing, Pattern Recognition, HI, Robotics

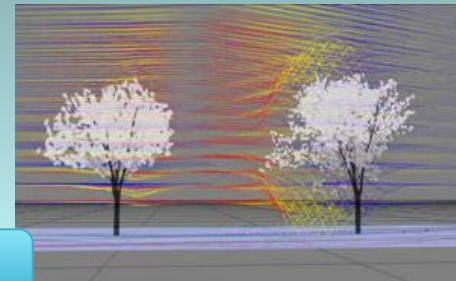
Support for Human Life



Mathematical Modeling & Simulation

Prediction, Inference, Knowledge Extraction, AI, Machine Learning

Implementation of a Real World in a Computer



New Generation IT System

Large-scale & High-speed Computatoin, Parallel Computatoin, Fast Network, Dependable System

IT Infrastructure to Support Convenient Life



Global Partners of Dept. CIS

- UK *: Sister Univ.
 - Univ. Brighton*, Univ. Birmingham
- Finland
 - Univ. Oulu
- Poland
 - Polish-Japanese Inst. Inf. Tech.*
- Thailand
 - KMUTT*, MU*, CU*
- Vietnam
 - HUST*, HCMUT*, HCMUS*
- China
 - Dalian Univ. Tech.*

A Life-long e-learning system for foreign vocabulary acquisition

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Content

1. Background
2. Vocabulary Learning System
3. Evaluation
4. Function Enhancement
5. Effective Materials
6. Concluding remarks

Why foreign language?

- With progress of globalization, acquisition of foreign languages is getting more important.
- After school education, continuous learning activities are necessary to maintain ability of foreign language communication.
- It is a pleasure of life to talk with overseas friends after retirement.
- Foreign language acquisition is an important target of life-long learning.

Why vocabulary?

- Vocabulary is the foundation of our ability to share our thoughts with others.
- A good vocabulary makes communication easier and more efficient.
- Lexical knowledge is more important than grammatical correctness in communication.
- Lexical errors could be a more serious obstacle in L2 than is commonly believed.

(Laufer 1986)

Why vocabulary? (cont.)

- Vocabulary acquisition in foreign language learning has been “neglected”.
- Teachers are not “neglecting”, but there is not enough time in the classrooms to “teach” vocabulary.



- It is necessary to find ways to promote “autonomous” vocabulary learning outside the classrooms. → Life-long learning