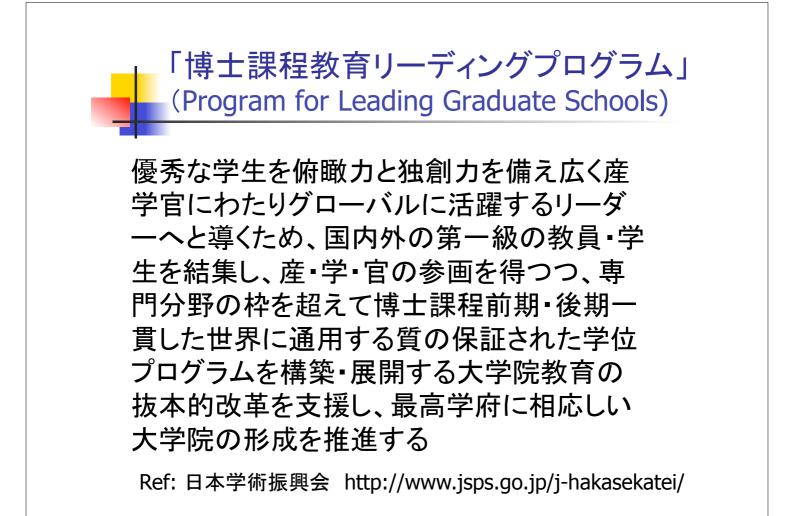
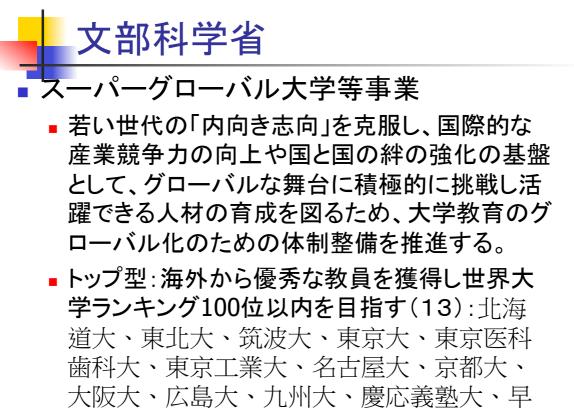
世界をリードする高等教育を目指して

富塚誠義 Cheryl and John Neerhout, Jr. Distinguished Professor カリフォルニア大学バークレー 機械工学科

2015年10月25日





R翻曲本学術振興会 http://www.jsps.go.jp/j-sgu/

CWUR: Center for World University Rankings (Japanese Universities)

World Rank	Institution	Country/Region	National Rank	Quality of Education	Alumni Employment	Quality of Faculty	Publications	Influence	Citations	Broad Impact	Patents	Sco
13	University of Tokyo	Japan	1	16	3	38	14	19	31	29	7	78.;
17	Kyoto University	Japan	2	22	16	24	30	42	69	60	16	68.0
34	Keio University	Japan	3	284	5	218+	309	246	368	270	80	59.6
38	Waseda University	Japan	4	288	8	218*	406	389	368	388	248	58,
45	Osaka University	Japan	5	46	39	75	50	58	182	67	18	56.0
73	Tohoku University	Japan	6	41	170	218*	68.	127	115	119	22	52.5
100	Kyushu University	Japan	7	367+	49	218+	152	182	264	200	37	50.0
109	Tokyo Institute of Technology	Japan	8	170	50	128	169	169	136	190	52	50.1
125	Nagoya University	Japan	9	39	322	53	138	140	146	195	78	49.5
178	Hokkaido University	Japan	10	279	277	135	148	173	287	251	53	47.5
245	Okayama University	Japan	11	367+	288	218+	353	335	287	318	60	46.5
262	University of Tsukuba	Japan	12	202	567*	107	230	255	212	242	213	46.4
290	Hiroshima University	Japan	13	367+	567+	218+	304	287	428	273	112	46.1
320	Kobe University	Japan	14	95	240	116	368	271	321	335	301	45.7
392	Tokyo Medical and Dental University	Japan	15	367+	567+	218+	473	352	645	335	272	45.5
418	Chiba University	Japan	16	367+	567*	218*	361	343	368	362	267	45.1
419	Kumamoto University	Japan	17	308	353	218+	495	441	428	409	152	45.1
457	Kanazawa University	Japan	18	367+	416	218+	474	419	511	381	350	44.5

CWUR: Center for World University Rankings

World Rank	Institution	Country/Region	National Rank	Quality of Education	Alumni Employment	Quality of Faculty	Publications	Influence	Citations	Broad Impact	Patents	Sco
1	Harvard University	USA	1.	1	1	1	1	1	1	1	э	100
2	Stanford University	USA	2	9	2	4	5	3	3	4	10	98.6
3	Massachusetts Institute of Technology	USA	3	3	11	2	15	2	2	2	1	97.5
4	University of Cambridge	United Kingdom	1	2	10	5	31	6	12	13	48	96.8
5	University of Oxford	United Kingdom	2	7	13	10	7	12	7	9	15	96.4
6 Č	Columbia University	USA	4	13	6	9	13	13	11	12	4	96.3
7	University of California, Berkeley	USA	5	5	21	6	10	4	4	7	29	92.5
81	University of Chicago	USA	6	11	14	8	17	16	12	22	141	90.7
9	Princeton University	USA	7	4	15	3	72	25	24	33	225	89,4
10	Cornell University	USA	8	12	18	14	24	15	25	22	11	86.7
11	Yale University	USA	9	10	26	11	18	8	35	20	49	36.6
12	California Institute of Technology	USA	10	6	328	7	53	9	19	25	13	84.4
13	University of Tokyo	Japan	1	16	3	38	14	19	31	29	7	78.5
14	University of Pennsylvania	USA	11	20	4	28	8	18	14	9	14	77,6
15	University of California, Los Angeles	USA	12	28	27	13	6	14	8	6	9	76.5
17	Kyoto University	Japan	2	22	16	24	30	42	88	60	16	68.0
34	Keio University	Japan	3	284	5	218+	309	246	368	270	80	59.
35	Imperial College London	United Kingdom	4	90	82	30	19	26	23	19	47	59.
36	École Polytechnique	France	1	98	7	216	327	314	234	295	172	59.
37	École normale supérieure - Paris	France	2	8	502	54	379	157	645	295	871+	58
38	Waseda University	Japan	4	288	8	218+	406	389	368	388	248	58

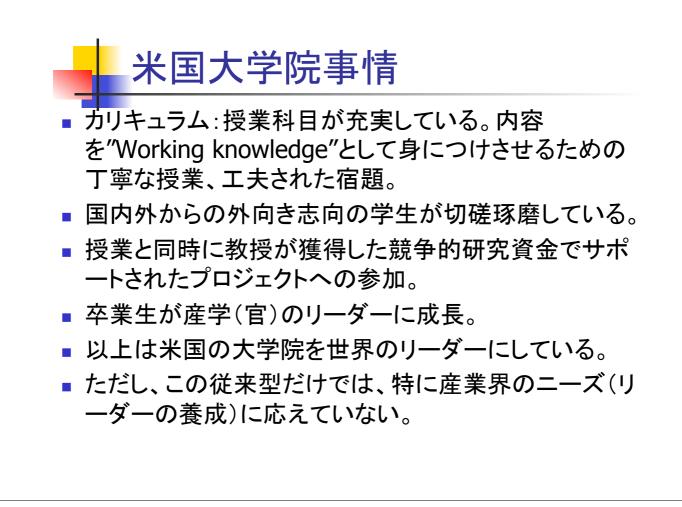
Ranking of Japanese Universities (US News and World Report)

- 1.University of Tokyo (75.2 Global Score)
- 2.Kyoto University (67.1)
- 3.Osaka University (62.4)
- 4.Tohoku University (60.8)
- 5.Nagoya University (58.6)
- 6.Tokyo Institute of Technology (57.5)
- 7.University of Tsukuba (54.3)
- 8.Hokkaido University (53.5)
- 9.Kyushu University (53.2)
- 10.Waseda University (52.9)
- 11.Hiroshima University (47.9)
- 12.Keio University (46.5)
- 12.0kayama University (46.5)
- 14.Kobe University (45.2)
- 15.Tokyo Medical and Dental University (44.3)
- 16.Chiba University (42.2)

Indicators (US News and World Report)

 Gobal research reputation 	12.5%
 Regional research reputation 	12.5%
 Publications 	10%
 Books 	2.5%
 Conferences 	2.5%
 Normalized citation impact (e.g. h-index score) 	10%
 Total citations 	7.5%
 Number of publications that are among the 10 percent most cited 	12.5%
 Percentage of total publications that are among the 	
10 percent most cited	10%
 International collaboration 	10%
 Number of PhDs awarded 	5%
 Number of PhDs awarded per academic staff member 	5%

World Ranking (US News and World Report) (US News and World Report) (US Persel (US News and World Report) (UR Persel (UR	 31 University of Tokyo 41. Peking University 49. National Univ of Singapore 59. Tsinghua University 70. University of Hong Kong 74. Nanyang Technological Univ 86. Kyoto University 96. Fudan University 105. Seoul National University 106. Zhejiang University 107. Seoul National University 108. Zhejiang University 119. Chinese Univ of Hong Kong 126. National Taiwan University 131. University of Sc and Tech of China 142. Hong Kong Univ of Sci&Tech 146. Osaka University 165. Tohoku University 180. Nanjing University 181. Korea Ad Inst of Sc and Tech, KAIST 187. City University of Hong Kong 194. Nagoya University 197. Pohang Univ of Sci and Tech 198 Sun Yat-sen University (China) 209. Tokyo Inst of Technology 217. Hong Kong Polytechnic University 231. Sungkyunkwan University 251. Wuhan Unversity 260. Younsei University 265. Tsukuba University
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Master of Engineering(カリフォルニア大学バークレー) http://funginstitute.berkeley.edu/programs-centers/fulltime-program/

- Technical Depth(専門分野の知識)
- Leadership Training(リーダーシップ、独 創性)
 - Core Leadership Courses
 - Capstone Integration
- One year program (24 units)
 - Technical depth 12
 - Leadership courses 5
 - Capstone integration 7
- MEng Career Service Team

Jacobs Institute for Design Innovation

The Jacobs Institute for Design Innovation is Berkeley's interdisciplinary hub for students, teachers and practitioners who have working at the intersection of design and technology. We empower you with a place to explore, a place to connect and a place to explore, a way you learn best – by doing

Jacobs Institute for Design Innovation - Vision -

"Today, it is not enough to provide our future engineering leaders with technical skills. They must also learn how to work in interdisciplinary teams, how to iterate designs rapidly, how to manufacture sustainability, how to combines art and engineering, and how to address global markets."



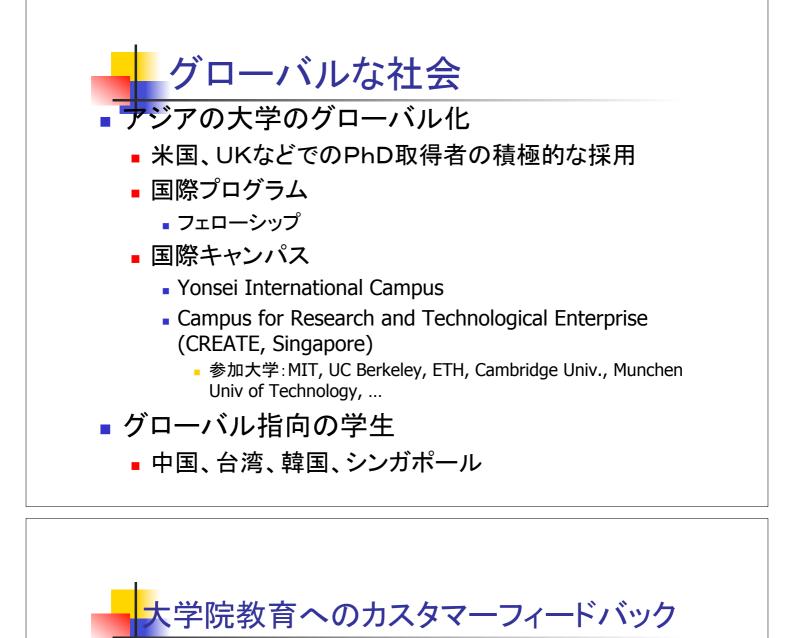
Paul E Jacobs `84, `86,'89 Executive Chairman, Qualcomm Inc.

Jacobs Institute for Design Innovation - Vision -

- We think of design and innovation as a single concept that starts with asking the right questions and ends with changing the world.
- We interview and observe users.
- We turn our insights into prototypes, and we test and iterate our way toward solutions that truly benefit people and society.
- We believe in the power of diverse teams to generate the best ideas.



- 「俯瞰する力」、物事全体を「高い視点から広く見渡す力」
- 俯瞰的なアプローチが身につくような訓練をすることは重要であるが教えて身につくものはわずか。俯瞰力の重要性を意識し続け、経験をつむことが重要である。
- 専門分野の幅広い知識をつける。このためには授業科目が バラエティーに富んでいることが重要。専門分野の知識が中 途半端ではこえる枠もできていない。
- 専門分野の幅広い知識がプロフェッショナルとして、研究また実業界での問題解決にいかされる。
- 他の人に教えることによって個々に関する知識が整理され て全体像をつかむことができる。後期の学生にティーチング の機会を与える。
- チームワーク、リーダシップなどについての教育訓練。



■ 優秀な学生が応募し入学してくるのか?

- 卒業していく学生がプログラムをどのように評価するのか?
- 雇用先は?
- 雇用者が卒業生をどのように評価するのか?
- リーディングプログラムについてこれらの フィードバックの結果を楽しみにしている。

