KSME Annual Fall Conference November 4, 2004, Daejeon

ROLE OF ENGINEERING SOCIETIES IN ENHANCING PROFESSIONAL DEVELOPMENT

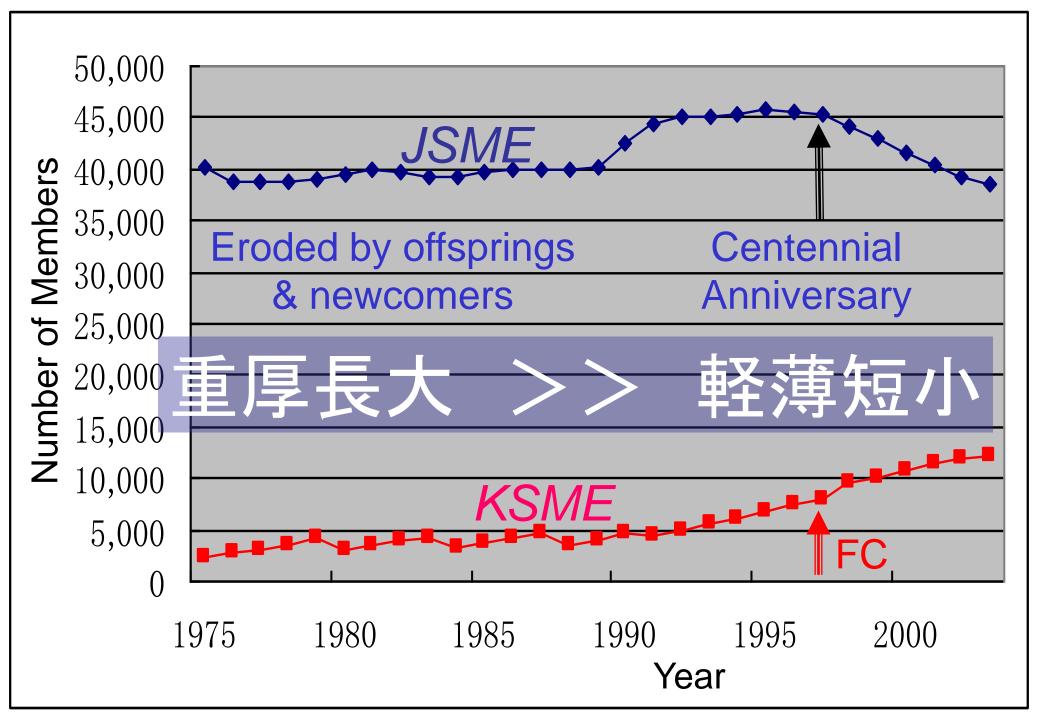
ACCREDITATION, PROFESSIONAL
 QUALIFICATION AND CPD –

Hideo Ohashi

Vice President, Japan Accreditation Board for Engineering Education Chairman, Kogakuin University, Tokyo, Japan







Impact of Globalization

```
1991:
        Collapse of Cold War Regime
               Globalization started to accelerate!
1995: /1 WTO founded, Free trade of services
      /11 APEC Summit Meeting > Mobility of engineers
1996: /3 Coordination of APEC Engr by HRD-WG
1997: /11 Final agreement on requirements
1998:
           /11 Establishment of JABEE
1999:
2000:
           /4 Amendment of Prof. Engineers Law
2001:
           /3 First registration of APEC Engr
           /4 First accreditation by JABEE
2002:
```

International events

Japanese domestic events

Confucius said?







Socrates said?

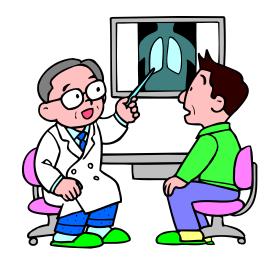


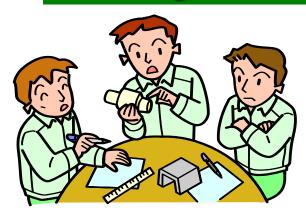
Learning for Truth

Oriental subconscious

ess Metaphysical means higher!



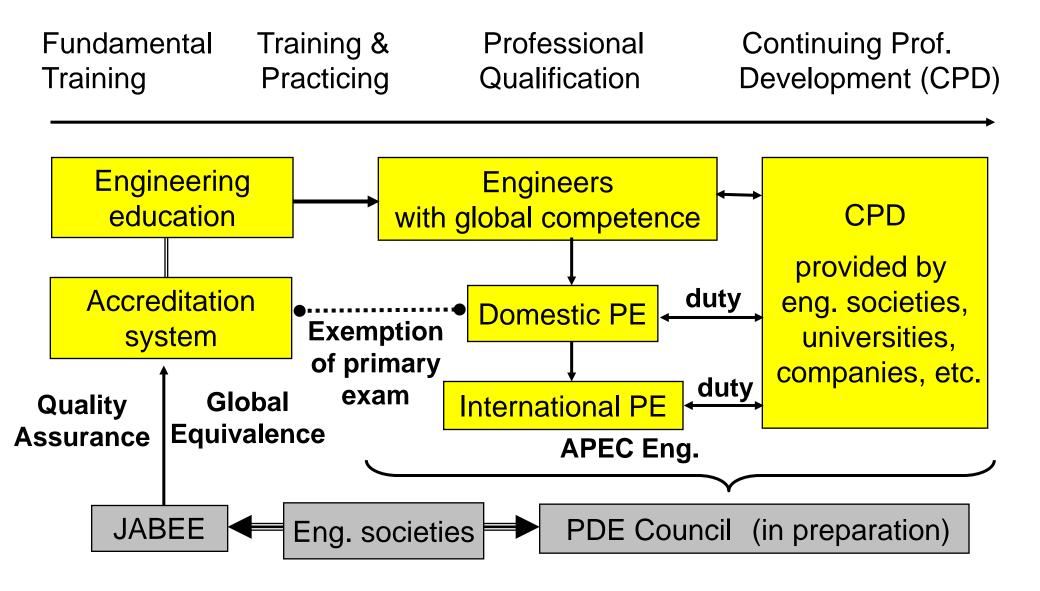








Life-long Professional Development of Engineers (PDE)



Membership of JABEE

NGO and independent of any educational institutions

Regular Members: 90 major engineering societies

IPEJ, JSME, JSCE, IEEJ, AIJ, SCEJ, IPSJ, MMIJ, ISIJ, FASJ, JSAP, JIMA,,,,,

Supporting Members: 52 major industrial firms

Canon, Denso, Fuji Film, Fujitsu, Hitachi, IHI, Kajima, Matsushita, MHI, NEC, TDK, Toshiba,,

The government (MEXT and METI) has been supporting JABEE by Grant-in-Aid for developing criteria, training examiners, conducting pilot accreditation, promoting international exchange, etc.

Progress of JABEE Activities

Fiscal Year	2000	2001	2002	2003	2010 / Target
No. of Pilot Acc.	20	51	35	4	0
No. of Acc. Programs Sum Total		3 3	32 35	67 102	100 + 500 +
No. of Acc. Graduates Annual Sum Total		200 200	2300 2500	4700 7200	30,000 +
No. of Certified Reviewers	102	335	529	744	1200 +
Version of Documents; Criteria, Procedures, etc.	Ver.1	Ver. 2	Ver. 3	Ver. 4	

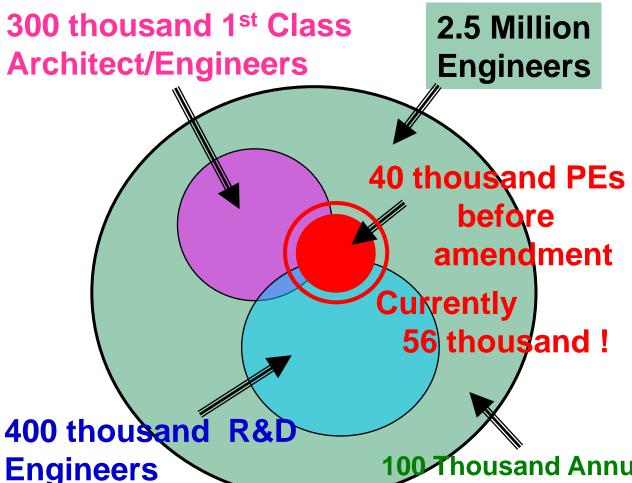
Membership in Washington Accord, 2003-2005

Mutual Recognition of the Equivalence in Engineering Education



Amendment of Professional Engineers Law

Composition of Engineers in Japan



Target of Amendment

 Increase number of PEs by enhancing value and merit of the title.

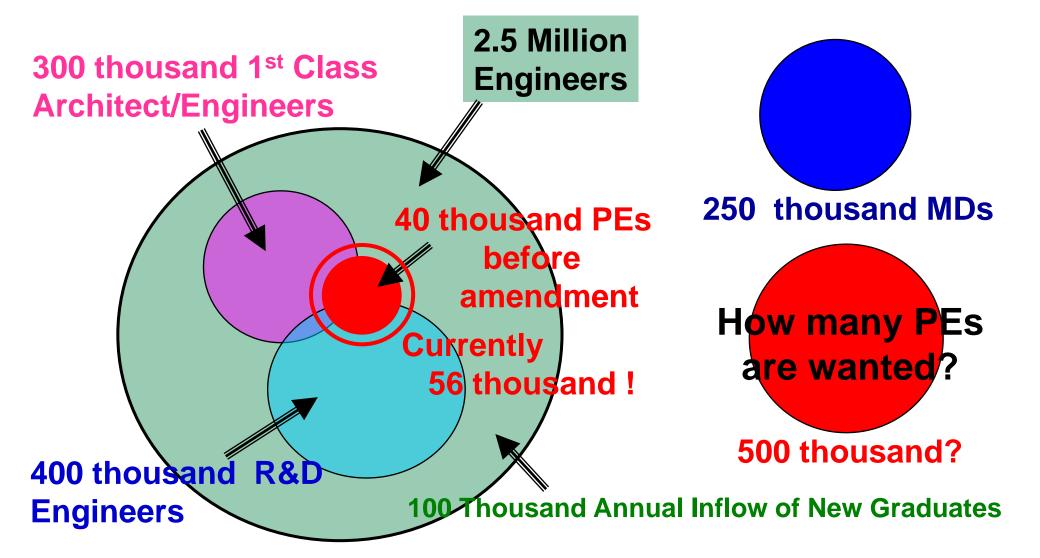
(quantity)

2. Improve compatibility with foreign PEs by modifying rules.

(quality)

Thousand Annual Inflow of New Graduates

How many PEs are wanted in the future who are legally responsible for the safety and reliability of modern society filled with human-made structures and systems?



Infrastructure of Supporting CPD for Engineers

Needs

Divrse Services

CPD Programs

Seeds

Providers

Clients/Engineers

Size of Company

• S, M, L

Sort of Business

- Manufact.
- Sales
- Operation
- R&D etc.

Kind of Job

- R&D
- Design
- Manufact.
- Management

Disciplines

Mechanical, etc

Level

- Introductive
- Advanced

Duration & time

- Days, weeks
- Day or evening

Method

- Face to face
- Correspond.
- E-Learning

Engineering Society

Advanced

University

- Systematic
- **Training Center** of Industrial Comp.
- Needs oriented
 Industrial Associat.
- Practice oriented
 Education Company
 - Commercial

Conclusions

- Establishment of engineering profession is indispensable to improve the public confidence on engineering and engineers.
- Globalization requested us to reform tradition-based perception, value and culture.
- Mutual communication and understanding within Asian region are needed for the future cooperation.

The End