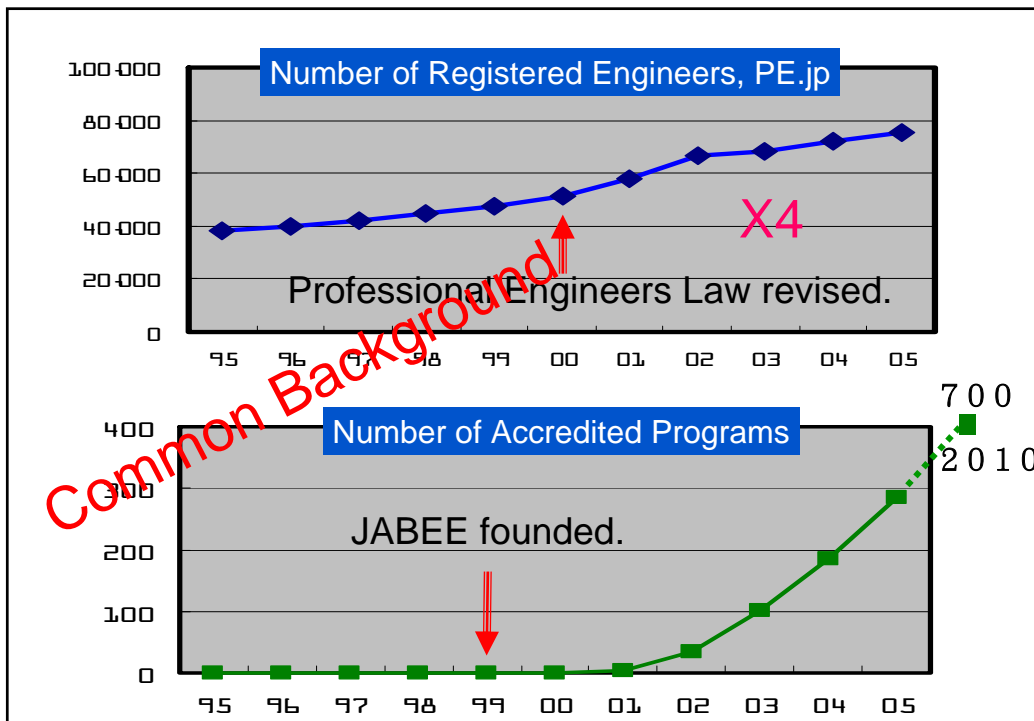


2006 International Mechanical Engineering Education Conference
March 31 - April 4, 2006, Beijing, China

Accreditation as the Entrance to Professional Development of Engineers

Hideo Ohashi

Japan Society of Mechanical Engineers
Japan Accreditation Board for Engineering Education



Impact of Globalization

1991: **Termination 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 started

/5 Preparation for revision of PE Law

/7 Study of accreditation of eng. education

1997: /11 Final agreement on requirements for APEC Engr

1999: /11 Foundation of JABEE

2000: /4 Revision of Professional Engineers Law

2001: /3 First registration of APEC Engr

2005: /6 Signatory to the Washington Accord

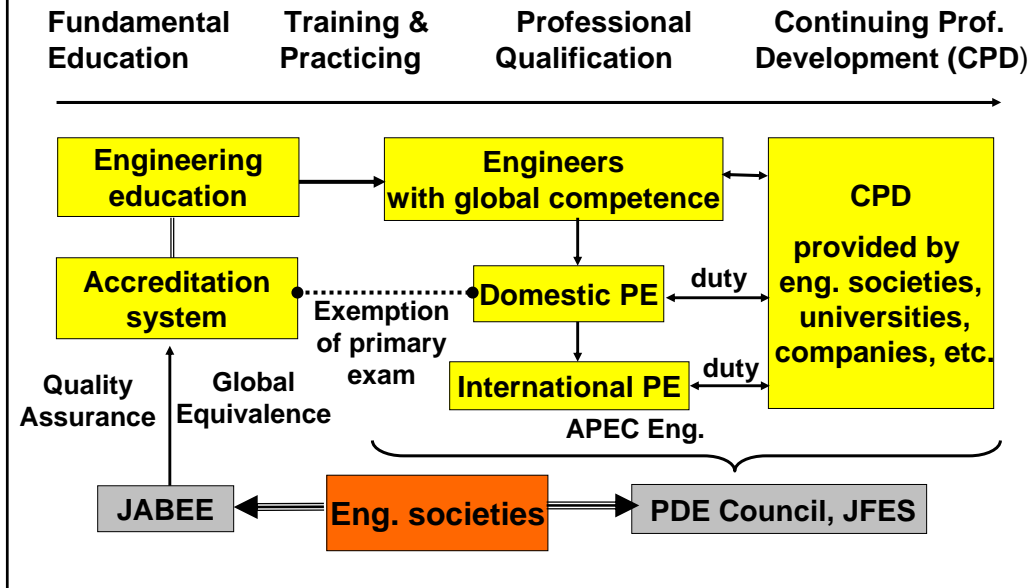
Integrated System to Support

Life-Long

Professional Development of

Engineers (PDE)

Life-long Professional Development of Engineers



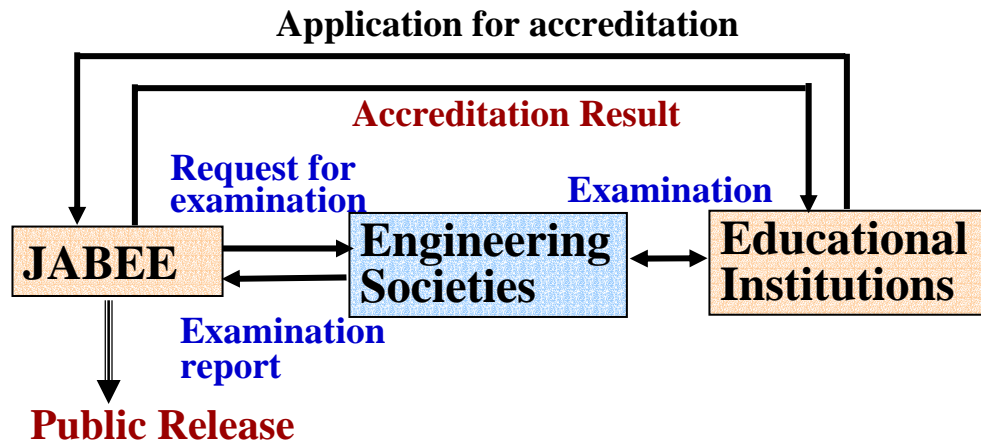
JABEE

Founded in November 1999

Objectives:

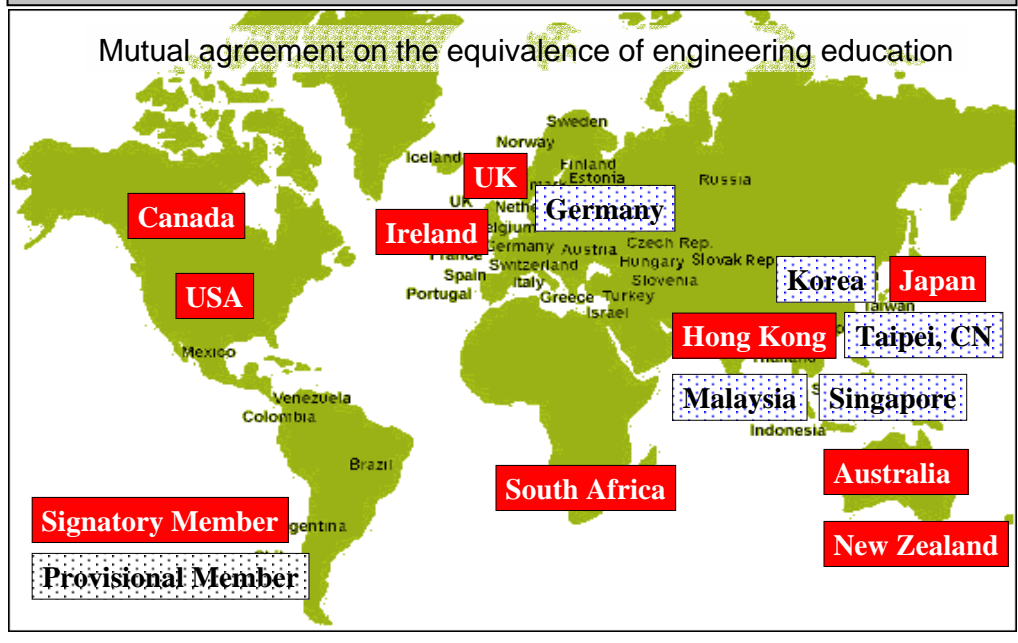
- Conduct program accreditation for engineering education
- Assure global equivalence of the quality

Role Sharing among JABEE and Engineering Societies



Signatories to the Washington Accord, 2005-2007

Mutual agreement on the equivalence of engineering education



Barriers to overcome

Followings are examples of the prejudice JABEE has been fighting against:

- Universities are the holy place where supreme truth is taught.
- Universities are not a popular place where preparation for a career is made.
- Engineering is a part of sciences.

“工学”

- Engineering is a profession. What does it mean?
- Institutional accreditation is sufficient enough. Why is program accreditation necessary?
- Accreditation hinders progress because of stiff regulation and control.
- Our quality is high enough.
- We don't care about quality assurance for the minimum level.

PDCA cycle; Plan → Do → Check → Action and again.

Future tasks

- Continuing Improvement of Accreditation System
- Enhancing Collaboration with Industries
- Introduction of Accreditation for Master's Programs
- Promotion of International Collaboration
- Conducting Self-Inspection and External Evaluation of JABEE for Further Improvement

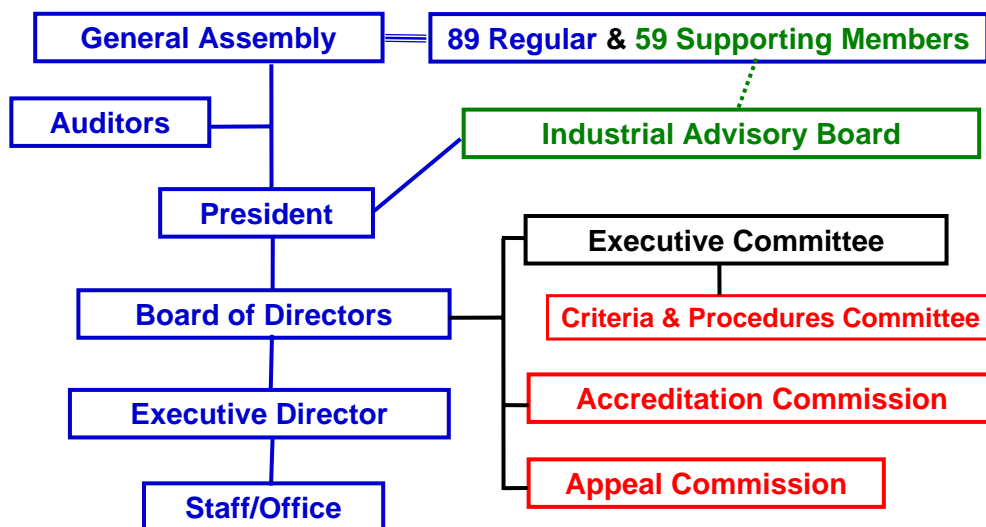
<http://www.jabee.org>

Concluding Remarks

Public confidence on technology and subsequently on engineers is gradually deteriorating. Short-term remedies are not sufficient to improve this situation. The endeavors for establishing engineering profession will be a sure step forward to recovering the public confidence.

Thank you !

Organization of JABEE



JABEE Activities

Year	2000	2001	2002	2003	2004	2005
Pilot Acc.	20	51	35	7	4	0
Formal Accreditation	total	3 3	32 35	67 102	84 186	ca100 286
Examiners	102	335	529	796	1043	1450
Sent Observers	13	12	15	13	9	6
Invited advisors*	4	3	11	3	13	6
International Affairs		5 th WA Provi.		6 th WA		7 th WA Signat.
International Symposia					Eng. Design	Master Education

* Including invited speakers at symposia