Educational Cooperation in APEC Region

Submitted by: Korea
Educational Cooperation
in APEC Region

Education Pre-Ministerial Research Symposium
Feb. 5~6, 2012

Presented by Korea

Table of Contents

1. Brief Outline for 5th AEMM Agenda
2. Why Cooperation?
3. Challenges for Educational Cooperation in APEC Region
   A. Challenges in educational environment
   B. Challenges in educational practices
4. Educational Responses & Future Direction
5. Strategic Plans
Future challenges and Educational Responses:
Fostering Global, Innovative, and Cooperative Education

1. Globalization: Preparing students with future skills to be college and career ready
2. Innovation: To create learning systems that challenge students through educational technology
3. Cooperation: Education for sustainable development
Cooperation Issue

• Being a crucial vehicle to accomplish goals in priority areas
• Strengthening educational practices at the international level
• Improving AEMM significance

Why Now?

• Time to change
  – From information exchange to outcome production
  – From independent struggles against crisis to cooperative action for solutions
  – From addressing policy without action to implementing policy with cooperation
Challenges for Educational Cooperation

• Challenges in Educational Environment (macro level)

• Challenges in Educational Practices (micro level)

Challenges in Educational Environment

1. Divide
   Economic Challenges:
   - Trade and Investment Liberalization in the APEC region by 2020 (TILF)
   
   Digital Divide
   - Digital gap among developed and developing economies (priority area of ECOTECH)
Challenges in Educational Environment

2. Global Crisis
   Fiscal Crisis:
   - Spreading of international financial crisis to the world since 2008
   Environmental Crisis:
   - Rising issues on Green Growth due to climate change, natural disaster

3. Challenges in APEC HRDWG
   - Cooperation among 21 member economies and three networks
   - Cooperation with other fora as cross-cutting group

APEC Educational Cooperation

Challenges in Educational Practices

Based on content analysis of EDNET projects

1. Methods
   All EDNET projects from 2001 to 2011
   - Analysis framework
     • Project period
     • Participating economies
     • Project contents
     • Cooperation method: People, Institutional, Resource

APEC Educational Cooperation
Cooperation Analysis Framework

APEC Educational Cooperation

Results

- EDNET projects 2000~2003

2000 The Use of Information Technology in a Learning Society (Short Term Training)
2001 The Seminar on the Best Practices for Professional Development of Vocational Teachers Among APEC Economies (Seminar/Symposium)
2000 The APEC Architect Project (Other)
2000 APEC Cyber Education Cooperation Project (IT Volunteer Delegation)
2001 Continuation: Use of IT in a Learning Society: APEC Educators Exchange Program (Short-term Training)
2001 Best Practices for Empowering Women’s Earning Capacity through Lifelong Education (Seminar/Symposium)
2002 We are APEC On-line (Other)
2003 Improving the Institute Capacity of Higher Education under Globalization: Joint Schools among APEC (Seminar/Symposium, Survey or Analysis and research Others (publication))
2002 APEC Sister School Networking (Website, Forum, Camp)
2002 APEC Cyber School and 2003 Networked Collaborative Learning Project (Short Term Training)
2002 UNU/IAS-APEC fellowships for administrators of APEC Education Network Members (Short Term Training)
2003 Seminar on Best Practices and Innovations in the Teaching and Learning of Science and Mathematics at the Secondary School level (Seminar/Symposium)
2003 APEC Learning Community for Shared Prosperity (Seminar/Symposium, short-term training, survey or analysis, database/website)
2003 Best Practices Guidelines for Fostering a Lifelong Learning Society (Seminar/Symposium)
2003 APEC e-Learning Strategic Plan Development (Other)

APEC Educational Cooperation
Results

• EDNET projects 2004~2007

- 2004 APEC Network of ICT Model Schools for Future Education (Seminar/symposium, short-term training course, survey or analysis, database/website)
- 2004 Colloquium on Future Education Assessment: East meets West (Seminar/symposium)
- 2004 Forum on Trade in Education Services (Seminar/symposium)
- 2004 APEC E-Language Research Consortium - phase 1 (Other)
- 2005 APEC Learning Standards for English and Other Languages (Seminar/symposium, survey or analysis and research)
- 2005 APEC Symposium on Open Source and Open Course for E-Learning (Seminar/symposium)
- 2005 A Collaborative Study on Innovations for Teaching and Learning Mathematics in Different Cultures (Seminar/symposium)
- 2005 Higher Education Quality Assurance and Accreditation Systems in the APEC Region (Survey or analysis and research)
- 2005 APEC e-Learning Training Program (Seminar/symposium, short-term training course, survey or analysis and research, database/website)
- 2006 APEC Conference on Evaluation as a Tool in Educational Planning: best practices in evaluation of educational program (Seminar/symposium)
- 2006 A Collaborative Study for Teaching and Learning Mathematics in Different Cultures (II) Lesson Study focusing on Mathematical Thinking (Seminar/symposium, short-term training course, survey or analysis)
- 2007 Collaborative Studies on Innovations for Teaching and Learning Mathematics in Different Cultures (III) Lesson Study Focusing on Mathematical Communication (Seminar/symposium, short-term training course, survey or analysis)
- 2007 Mapping of qualifications frameworks across APEC economies (Survey or analysis)

APEC Educational Cooperation

Results

• EDNET projects 2008~2010

- 2008 APEC Information and Communication Technology for Education Exposition (Seminar/Symposium)
- 2008 APEC 21st Century Mathematics & Science Standards and Assessments: A Focus on Middle and Secondary Schools (Seminar/Symposium)
- 2008 Study of Best Practices in Teaching and Learning Languages in APEC Economies: Lesson Study Application (Seminar/Symposium, Survey or Analysis and Short-Term Training)
- 2008 Comparability & Benchmarking of Competencies and Qualification Frameworks in APEC Region (Pilot Area: Construction and Welding) (Seminar/Symposium, Survey and Analysis)
- 2008 APEC Youth Camp: Caring for the sustainable development of the Asia-Pacific Region (Seminar/Symposium, Database/Website)
- 2009 Lesson Study for Implementing Curriculum: Using Innovative Assessment Problem (Seminar/Symposium, Survey)
- 2009 International Benchmarking to Improve Mathematics and Support Exemplary Practices in Travel-Eligible APEC Economies (Survey & Analysis)
- 2009 International Comparative Research to Identify Unique and Promising Practices in Mathematics and Science Teacher Preparation for APEC Economies (Seminar/Symposium, Workshop)
- 2009 APEC Training program for Preventive Education on ICT Misuse (Short-Term Training, Workshop)
- 2009 21st Century Mathematics and Science Education for All in the APEC Region: Strengthening Developing Economies and Gender Equity Through Standards, Assessments, and Teachers (Seminar/Symposium, Survey & Research)

APEC Educational Cooperation
Results

• Special features (1)
  1. Short term projects (Less than 5 year)
     - 27/32 projects (84.4%)
  2. Participating economies: less than 5 economies
     - 21/32 projects (65.6%)
  3. Priorities
     - ICT: 15 (46.9%), Math & Science 5 (15.6%),
     - English & Other Languages 2 (6.3%), TVET 1 (3.1%),
     - Other 9 (28.1%)

APEC Educational Cooperation

Results

• Special features (2)
  1. Input:
     - Government: 13/32 projects (40.6%)
     - Government & Academia: 17/32 projects (53.1%)
     - Gov., Academia, and Business sec.: 2/32 projects (6.2%)
  2. Process
     - Research: 12/32 projects (37.5%)
     - Development: 12/32 projects (37.5%)
     - Practice: 8/32 projects (25%)
  3. Output
     - Resource: 22/32 projects (68.8%)
     - People: 5/32 projects (15.6%), Other: 5/32 projects (15.6%)

APEC Educational Cooperation
3. Methodological limitations

• **Input:** most projects proposed by government, lack of partnership with business sectors

• **Process:** Most projects conducted by research & development, few projects with practices

• **Output:** Most projects with resource collaboration, no connection among people, resource, institutional cooperation methods

---

**Educational Responses & Future Direction**

- Long term projects should be planned and executed.
- More economies should participate in each project.
- Projects considering APEC wide impact should be taken into account.
- Various contents and methods of projects should be explored.
- Projects for global crisis solutions should be undertaken.
Educational Responses & Future Direction

- More Public-Private Partnership projects should be supported.
- Norms & indicators for educational cooperation should be created.
- Standards & Assessment for educational cooperation should be developed.
- Support mechanism for educational cooperation should be built.

Summary: Why Cooperation?

- **Fundamental solution**
  1. Attention to human potential
     - Overcoming limitations of technological intervention
       (e.g. Rules & mandates, technology, tools)
  2. Soft power of educational cooperation
     - Mindset & behavior change
     - Skill development
Summary: What Cooperation?

- **People**
  - Exchange of people

- **Resource**
  - Information exchange
  - International conference
  - Program development & educational practices

- **Institution**
  - Institutional alliance, higher education consortium, agreement between institutions

Summary: How cooperation?

- **Discussion points**
  - No clear guideline of cooperation
  - No supporting mechanism for cooperation
  - Lack of standards for assuring cooperation quality
1. Developing systematic supporting mechanism: Three stages strategic plans for educational cooperation

2. Combining different methods of cooperation: APEC Educational Cooperation Model
   (Policy cooperation + Practice cooperation)

**Three Stages of Strategic Planning**

**Stage 1 (2012-15)**
- Building a system for policy cooperation & practice cooperation
- Providing guideline & model

**Stage 2 (2016-19)**
- Providing Solutions for educational cooperation based on results of best practices
- Implementing educational solutions

**Stage 3 (2020-23)**
- Applying lessons learned to other areas
### APEC Educational Cooperation Model

#### Circular model: Policy Cooperation + Practice Cooperation

| Policy Cooperation          | • Establish APEC ODA (Official Development Assistance)  
|                           | • Develop policy standards and assessment tools  
|                           | • Facilitate APEC policy research cooperation  
| Practice Cooperation       | • Resource sharing, people collaboration, institutional network  
|                           | • Synergy effect from people, resource, and institution cooperation  

---

APEC Educational Cooperation
Case: *ALCoB*

“APEC Learning Community Builders”

*by Korea*

---

**ALCoB - Project Information**

- **2003** APEC Learning Community for Shared Prosperity (ALCom)
- **2004** APEC Future Education Forum
- **2006** APEC e-Learning Training Program

**ALCoB (APEC Learning Community Builders)**

- *Who:* Participating members of these projects in the APEC region
- *For what:* To materialize the APEC Learning Community based on 
  Autonomy, Understanding, Cooperation and Volunteerism

---

APEC Educational Cooperation
**ALCoB – History**

- 2001: AEEP
- 2003: Research & Development
- 2005: Project & Education Exchange
- 2007: Consulting & Supporting Education

**ALCoB – Structure**

Tri-partization in ALCoB following APEC suggestion

- **Government Sector** (steering committee)
  - Set policy

- **Academic Sector** (scholars)
  - Support R&D in Edu.

- **Private Sector** (ALCoB-EC)
  - Support for S/W, H/W, facilities, etc

**APEC Educational Cooperation**
ALCoB – Status

- Number: Over 5,000 members in 21 economies (as of Jan. 2012)
- 6 branches in the APEC region

ALCoB - Main Activity

APEC Educational Cooperation
ALCoB - Outcome

ALCoB - Practice as APEC Educational Cooperation Model

Systemic & substantial collaboration based on APEC Human network
ALCoB in 4th AEMM

“ALCoB is the human network, which is helpful to education system of each APEC economy ......”

(4th APEC Education Ministerial Meeting, 2008, Peru)

ALCoB - Vision

beyond APEC Project in Education Network ...

Expect to broaden its direction and support in the scope of HRDWG

Seek for cooperative methods with other fora in APEC
Thank You

APEC Educational Cooperation