APEC Activity Updates about Standards Education

www.WiseStandard.org

For ICES 4th Workshop
23-24th March, 2009 – Tokyo, Japan

Dongguen Choi (Mr.)
Liaison from APEC SCSC to ICES
Project Editor, APEC SCSC Education Initiative
Senior Standards Analyst, KSA, Rep of Korea
I. Overview

II. 2008 SCSC II Meeting Summary

III. 2009 SCSC I Meeting Summary
I. Overview
History Overview

• Sep 2005  SCSC Agreed to continue discussion
• Feb 2006  SCSC Agreed to take actions
• Sep 2006  SCSC had a education session in the 6th Conference
• Nov 2006  SCSC Included in its ToR
• Nov 2006  APEC Included in its JMS(18th)
• Jan 2007  1st SCSC PAGE (Project Advisory Group on Education) meeting
• Mar 2007  Education Project Phase I Started
• Jun 2007  2nd SCSC PAGE meeting
  
  (ICES 3rd Workshop in NIST, USA – Feb 2008)
• Feb 2008  3rd SCSC PAGE meeting, Phase I completed

• Aug 2008  SCSC had a education session in the 7th Conference
• Feb 2009  4th SCSC PAGE meeting (with co-sponsoring group meeting)
• **Title:**
  – APEC Strategic Education Program on Standards and Conformance

• **Proposing Economy: Korea**

• **Co-Sponsoring Economies: China, Indonesia, Japan, Singapore, Thailand, USA, Vietnam (7)**

• **Time Plan: Three Phases Projects**
  – Mar 2007 to Aug 2010 (42 months)

• **Phases**
  – Phase I (completed in Mar 2008)
  – Phase II (2008-2009; to be extended by June 2010)
  – Phase III (to be proposed in 2009; 2010-2011)
Project Phases I, II, III

**Phase I** (2007~)
- Case Study
- Curricula
  - Advisory Groups
  - Workshops
  - Reference Collection
  - Case Studies
  - Curricula Development

**Phase II** (2008~9)
- Textbooks
- Manual
  - Meetings and Workshops
  - Textbook Development
  - Teaching Manual Development
  - Networking

**Phase III** (2010~)
- Pilot School
- Guideline
  - Meetings
  - Teachers’ Workshop
  - Implementation Guideline
  - Pilot Schools
  - Lesson Book
Phase I Results

• **Policy Analysis of 16 Economies**

• **118 Worldwide Case Studies (88 details)**
  – 10 Primary/Secondary Education (9)
  – 27 Higher Education (19)
  – 65 Professional Education (52)
  – 16 General Activities (8)

→ **Development of Model Curriculum**
  – Differentiation of Targets Groups and Objectives
  – Six Contents Modules with Three Domains
  – Different Types of Teaching Methods
II. 2008 SCSC II Meeting Summary

APEC SCSC I
Cusco, Peru on August 11-13th, 2008

Dongguen Choi (Mr.), Senior Standards Analyst, KSA
Editor, APEC SCSC Education Project
Conference Session Overview

- **Date:** Afternoon of 10 Aug 2008, Cusco of Peru
- **Moderator**
  - Mr. Teo Nam Kuan, Director, SPRING, Singapore
  - Mr. Donggeun Choi, Senior Standards Analyst, KSA, Korea
  - APEC SCSC Education Initiative: Raising issues – Where should we go?
- **Presentations**
  - The economic Impact of Standards, Mr. John Tucker, CEO, Standards Australia
  - The Economic Value of Standardization in Canada, Mr. Stephen Head, Senior Policy Analyst, Standards Council of Canada
  - Economic and Social Effects of Standardization, Mr. Shigekazu Fukunaga, Deputy Director, Technical Regulations, Standards and Conformity
  - The Value of Standards and Standards Education, Ms Erin Grossi, Underwriter Laboratories, USA
  - Introducing standardization as an Input for Innovation in high level education in Peru, Dr. Augusto Mellado, President
  - Standards Education, Mr. John Hill, Leadership Team, ICES (International Cooperation on Education about Standardization):
  - European Academy for Standardization, Mrs. Francoise Bousquet, EURAS (European Academy for Standardization)
ISSUE: How to integrate Research into Policy/Education

Strategy
(Gov, NSBs, Bizs)

Research
needs

Strategic Integration?

Education
applications

contents
• **Contents**

  **It is recommended that APEC SCSC develop:**
  - Textbook focusing on theory and case studies: fundamentals, economic impacts of standardization
  - Textbook providing linkage between standards and conformance with competitive strategy/innovation

• **Considerations**

  **It is recommended that APEC SCSC Consider:**
  - Online Availability, e-book
  - Identification and utilization of existing contents
  - Openness for everyone (copyright, license)
  - Multi-cultural/industry, Global/local cases
Networking – within/outside APEC

• Networking in APEC
  It is recommended that APEC SCSC Build:
  – Internal APEC-wide network for standards and conformance education and research
    • Among Academic/professional experts
    • Among Faculty/teachers/educator

• Networking with outside organizations (Liaison) –
  It is recommended that APEC SCSC Liaise with:
  – Research Society focusing on or related to Standards and Conformance
    • EURAS, SES, SIIT, ICES(education)
    • Related Academic Society (Business Management, Policy, et al)
    • Universities, Schools, Education or Research Institutions
  – Standards related Organizations
    • ISO, IEC, ITU, IFAN
    • SRBs, NSBs, SDOs
Vision for 2010

- **Textbook** to be reference, in whole or in part, by more than 50 courses of higher education in APEC region. (e.g. engineering, business, public policy, law, et al)

- **Networking** composing of more than 100 researchers, professionals, educators for research and education on standards and conformance in APEC region.

- **Website** providing more than 100 cases about teaching cases, 500 research results information including case studies, and relevant contact information to facilitate networking
The SCSC agreed for Mr. Donggeun Choi to attend ICES (International Cooperation for Education about Standardization) meetings as an SCSC representative, the proposal be taken to CTI and then to SOM for approval.

The SCSC noted the plan for the development of textbook for phase II and encouraged members to provide relevant research resources, including case studies.

The SCSC endorsed the organization of an 'Asia-Pacific Network for Standardization' as a part of APEC SCSC Education Initiative to provide a venue for networking among researchers, professionals, and educators.

The SCSC noted that Korea will prepare a website to facilitate education activities and networking in the APEC region.
III. 2009 SCSC I Meeting Summary

For 2009 APEC SCSC I Meeting
February 23-24th February, 2009

Dongguen Choi (Mr.),
Project Editor, APEC SCSC Education Initiative
Senior Standards Analyst, KSA, Rep of Korea
Title: 5th Meeting of APEC SCSC-PAGE

Date: 09:00 – 12:30 of Feb 22, 2009

Venue: Grand Copthorne Waterfront Hotel, Singapore.

Participants

- The meeting was participated by more than 40 participants from Australia, Brunei Darussalam, Chile, China, Hong Kong China, Indonesia, Japan, Korea, Malaysia, Singapore, Chinese-Taipei, Thailand, USA, Vietnam (14 economies) and SRBs.
- The 2009 SCSC Chair Mr. Teo Nam Kwan and APEC secretariat Mr. Toni Widhiastono were present at the meeting.
• **Moderators**
  – The meeting was moderated by the 2009 Chair of SCSC-PAGE Ms. Du Chunjing and the project editor Mr. Donggeun Choi.

• **Topics**
  – Progress report for the education project by Korea
  – Presentations/Discussions on how to develop textbook by China(CNIS), Indonesia(BSN), Japan(METI)
  – Presentations/Discussions on how to facilitate networking by ANSI and Singapore
  – Introduction of upcoming events of 4th ICES Workshop by Japan and a NIST workshop on SC Education by USA.
Project Progress Status
- Textbook Development

1. Planning
- 100%
- Fundamentals + Case Studies (08.9)

2. Research
- 100%
- 2,000+ Reference Library

3. Template/ToC
- 50%

4. Writing
- Sample is under preparation

5. Review/Proof Reading
- After Writing is completed
Project Progress Status – Networking

1. SCSC Approval
   - 100%
   - 2008 SCSC II

2. Website
   - 90%
   - Feb 2009 (www.wisestandard.org)

3. Mailing List
   - 50%
   - Via Website

*Offline Gathering
   - In line with events like ICES, SIIT workshop
   ICES workshop (outside of project scope)
Welcome to Wise Standard!
The importance of education on standards and conformance is highlighted in the 2006 APEC Ministerial Joint Statement: “Ministers recognized the importance of standards education and encouraged members to develop reference curricula and materials to address the significance of standards and conformance to trade facilitation in the region.” This project is addressing to...

**Notice & News**

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• Speaker
  – Ms. Zhao Wen-Hui, Researcher, CNIS

• Brief Summary
  – CNIS Mission on SC Education
    • National Training base of Chinese Standardization Talents
  – CNIS Solution to SC Education
    • Integrating the resources; applying theory into practice
  – Details of Two CNIS Projects
  – Cooperation with Biz. and Univ.; Internship Program
  – Interesting Statistics such as 170 Books on Standardization, Outstanding Dissertations (37 PhD, 229 Master), et al
  – Ideas How to Cooperate in Textbook Development
Textbook Development
- Presentation by Indonesia (BSN)

• **Speaker**
  – Mrs. Dewi Odjar Ratna Komala, Deputy, BSN

• **Brief Summary**
  – Standards Education Network in Indonesia since 2005 (curriculum, lecture, implementation)
  – 8 Univ. Operated in 2008 (9 Univ. signed MoU with BSN)
    - Awareness Programs for Lectures, Deans, Head of Department at the Universities
    - Scientific Writing Competition
    - SAP (Teaching Unit)
    - 1<sup>st</sup> Edition Curriculum “Standardization” Completed
    - 2<sup>nd</sup> Edition is under Development (New ideas)
  – Awareness Program for Primary/Secondary Schools
  – Tremendous Progress Achieved Recently in Indonesia
Textbook Development
− Presentation by Japan (METI/JISC)

• Speaker
  − Mr. Shigekazu Fukunaga, Deputy Director, METI (Japan)

• Brief Summary
  − METI/JISC Special Committee on HRD
  − For Multi Target Groups: Industry, Researchers, Professors, University Students (MOT, MBA)
  − Textbook available in JSA website (In Japanese)
  − Collaborative Research Between Universities: Jiliang Univ(China), Erasmus Univ(Netherlands), and Tokyo Institute of Agriculture and Technology (Japan)
Networking: Outreach Strategy Presentation by ANSI

• **Speaker**
  – Mr. Gary Kushnier, Vice President for International Policy, ANSI

• **Brief Summary**
  – Public Relations/Marketing
    • Prepare a collection of targeted messages
    • Engage the press and other media sources to educate them
  – Academic Resources
    • APEC textbook available to all economies in electronic format
    • Database of APEC publications
    • Online APEC Standards Education Portal
    • Publication Competition Program or Similar Incentive Programs
  – Professional Training Section
    • Programs/Events, Exchange Programs, Network
• **Speaker**
  – Mr. Robert Chew, Chairman, ITSC

• **Brief Summary**
  – Introduction of IT Standards Committee in Singapore
    • Who we are/What we look like/What we do
    • Standards Development (Domestic and International)
  – Standards Education
    • Seminars, Training, Standards Awareness Program,
    • Programming Competition, Synthesis, ITSC Networking Night
    • Interoperability Testing and Standards Adoption
  – Challenges
    • What is standards? What is the value of standards?
    • How does it relate to me? Who can tell us about standards?
Other Business: Events
– ICES 4th Workshop/Meeting (Japan)

- **Speaker**
  - Mr. Juichi Nagano, Director, METI/Japan

- **Brief Summary**
  - Introduction of ICES Activities and History
  - Introduction of ICES 4th Workshop
    - **Venue:** KKR Hotel Tokyo
      - **Date:** March 23-24, 2009 (11F of KKR Hotel)
    - **Sessions**
      - Update of perspectives on education and human resource development of standardization
      - Formal Poster Presentation Session
      - How to sell education on standardization to universities, industry, etc.
      - How to introduce international cooperation for education about standardization into national education program

- **More Information:** [www.standards-education.org](http://www.standards-education.org)
Other Business: Events
- NIST Workshop on SC Education (USA)

• Speaker
  – Ms. Jennifer Stradtman, US DOC
• Brief Summary
  – Title: Promoting Education About Standardization in North America
  – Date: May 8, 2009
  – Venue: Gaithersburg, Maryland USA (NIST)
  – Sessions
    • Panel 1: U.S. Academic Courses
    • Panel 2: Approaches to Teaching Standards
    • Panel 3: Industry/SDO view
    • Panel 4: Forward thinking for Standards Education
SCSC-PAGE Action Plan

- **APEC SCSC Education Outreach Strategy**
  - Call for Comments/Action Plans (by Apr 2009)
- **Facilitating Online Networking (via WiseStandard.org)**
  - Call for Joining in its Mailing List (by Jun 2009)
  - Call for Update of Library of Cases, Lessons, References
- **Textbook - Template/ToC to be completed by Jul 2009**
- **Textbook – Drafting/Writing to be completed by Jul 2009**
  - Call for Contributions (by Mar 2010)
- **Textbook – Finalizing/Review: Jun 2010 to be completed by Jul 2009**
  - Call for Comments (by May 2010)
  - Extension of Project Phase II (to Jul 2010)
- **Copyright Issues to be advised by APEC Secretariat**
- **Next Meeting to be held in line with 2010 APEC SCSC I in Japan**
- **Invitation to ICES 4th Workshop (23-24 Mar 2009)**
- **Invitation to NIST Workshop (May 8 2009)**
Future Cooperation

- Networking
- Curriculum Development
- Textbook Development
- Workshop and Conferences
- Joint Meetings
www.WiseStandard.org

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