

ICES 2015報告

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画像電子学会国際標準化教育研究会2016-01-22

ICESの紹介

- 2006年東京会合から始まる
- International Cooperation for Education about Standardization –
<http://http://www.standards-education.org/>
- ボランティア・ベース ; virtual
- ICESボード : 3人
- 年1回のワークショップ

ICES historical overview

- 2006年2月 東京(一橋大学丸の内)J. Hill, 栗原史郎,黒川
- 2007年2月 Delft (デルフト工科大学)
- 2008年2月 Gaithersberg (NIST)
- 2009年3月 東京(KKRホテル), Simulation Game
- 2010年6月 Geneva, ISO/IEC/ITU-T WSC Academic Week
- 2011年6月 杭州, WSC Academic Day
- 2012年5月 Indonesia, Bali, ISO DEVCO/KATS Workshop for developing countries
- 2013年6月 ETSI
- 2014年8月 Ottawa (Chateau Laurier), Society of Standards Professionals (SES) annual conference
- 2015年8月 Seoul, KSA

ICES 2006-2014

参加者数の推移(国;メンバー会議)

- 2006 – 15[6]
- 2007 – 30[11]
- 2008 – 60[11];20
- 2009 – 150(80)[10];20
- 2010 – 95[28];20
- 2011 – 50[16];20
- 2012 – 213[32];20
- 2013 – 62[23];15
- 2014 - 71[14];10
- 2015 – 80[12];15 (推測)

ICES Workshop Themes

- 2006 - Share ideas, experiences and vision for education about standardization
- 2007 - Promote and support the development of standardization education worldwide
- 2008 - Global Perspectives and Strategies for Education about Standardization
- 2009 - Evolutions of Standards Education in the World
- 2010 - Dialogues between academic institutions and the international standards community
- 2011 - Research and Academic Teaching about Standardization
- 2012 - Promote quality and attractiveness of education about standardization
- 2013 - Industry Needs Standards. What Does Industry Expect from STANDARDS EDUCATION?
- 2014 - Developing Standards Professionals Across Borders
- **2015 – Towards Developing Common Competency Requirements for Standards Professionals**
 - Do we need competency requirements of standards professionals?
 - Do we need national/ international occupation standards and personnel certification?
 - What are current situation and challenges of the job market?
 - What are expectations of companies and standards-specialty organizations?

ICESの課題の変貌

- 2006年 興味・関心を持った人/グループは存在していたが、情報交換・意見形成の場がなかった — 黒川のレポート(2005)
- 2008年 法人化, 恒久化, SDOとの関係, 教材
- 2010年 指導体制, 学生層の取り込み, 地域特性にあった取り組み
- 2012年 EURAS, SSS (Society for Standards and Standardization)などとの関係
- 2014年 若手育成、職業規定
- 2015年 Standards Professionals Competency

What's New in 2015

- 海外参加者が事実上招待者のみ
- レセプションも招待者だけ
- 発表データは未公開
- Competency/SkillのISO検討
- KSAの表彰
- 地元韓国の発表が多数 (1/3)
- Singapore、Iran複数参加

Membership meeting News

- New Board Member - Bambang PURWANGGONO, Diponegoro University(Indonesia) ← Donggeun CHOI, KSA
- ICES 2016 – Frankfurt, October with IEC
- ICES 2017 – USA, IFAN, SES co-location; participation fee

KEYNOTE SPEECH

Prof. Jaehak LEE

President, Society for Standards and Standardization; SSS

Professor, Korea Polytechnic University (Korea)

Unsolicited Ideas and Experiences on Academic Research and Human Resources Development in the field of Standards and Standardization

Prof. Knut BLIND

Chair of Innovation Economics, Technische Universität Berlin (Germany)

Chair for Standardisation at Rotterdam School of Management, Erasmus University

The Influence of Standardization on Innovation and Economic Growth: State-of-the-art for Research and Policy

**PANEL I:
The PAST 10 YEAR
ACTIVITIES**

Dr. Henk de VRIES (Moderator)

Associate Professor, Rotterdam School of Management (Netherlands)

President, European Academy for Standardization (EURAS)

ICES 2006-2015: REVISITING its 10 Years of History

Ms. Misun JUN

Director, Global Standards Center, Korean Standards Association (Korea)

A Retrospective of Korea's Efforts on Life-long Standards Education Program

**PANEL II:
The PRESENT
EXPERIENCES and
ISSUES**

Mr. Erik PUSKAR

Program Manager, NIST (USA)

Overview of NIST's Efforts to Enhance Teaching of Standards and Standards Development in U.S. Universities

Mr. Jeffrey STRAUSS (Moderator)

Acting Director, Buffett Institute Center for Technology and Innovation Management, Northwestern University (USA)

NUZIP: an experiential learning standards negotiation game for managers and students

Mr. LIU Fei

Chief Representative, China Office, ASTM International (China)

Recent Achievements in Education and Training of ASTM International

Ms. Sunghyun PARK

Senior Researcher, Korean Standards Association (Korea)

Human Resources Development and Management in Developing Countries: Some Observations from ISCP Program

**PANEL III:
The FUTURE PLAN
and VISION**

Dr. Kishik PARK (IEEE SA)

Member of IEEE SA Board of Governors; IEEE SA Education Committee;
Principle Researcher of ETRI, Professor of UST (Korea)

Current IEEE Activities in Standards Education: Including an Overview of the New IEEE Standards University

Ms. LOH Soi-Min (Moderator)

Director for Policy and Promotion, SPRING (Singapore)

Future Plan and Challenges for Standards Education and HRD: SPRING Singapore's perspective

Prof. Sangbong YI

Professor, Korea National University of Education (Korea)

Conceptual framework for education about standard from primary to high school

**INTRODUCTION
with ICES BOARD
MEMBER**

Dr. Donggeun CHOI

Korean Standards Association, ICES Chair

Prof. Knut BLIND

Technische Universität Berlin, ICES Vice-Chair

Prof. Jeffrey STRAUSS

Northwestern University, ICES Vice-Chair

KEYNOTE SPEECH

Prof. ByungGoo KANG

Professor, Korea University (Korea)

Position of Standards and standardization on the Business Hierarchy and the Career Model of Standards Professionals

Mr. Wonsub OH

President, EM Korea (Korea)

My Career in Standardization in Hyundai Heavy Industries and EM Korea, and Some Observations for Standards Professionals Development

**PANEL 1:
The CONTEXT**

Dr. Bambang PURWANGGONO

Senior Lecturer, Diponegoro University (Indonesia)

A Survey of Standardization Competence Demand Leading to the Establishment of a Major or Concentration in Standardization

Dr. Carla FREERICKS

Lecturer, University of Bremen (Germany)

Standards Professionals: Soft Skills are Required – Knowledge on Standards are Desired

Dr. Donggeun CHOI (Moderator)

Principle Manager, Korean Standards Association (Korea)

How Many People are Working for Standards and Standardization – Some Implications from APEC SCSC Project

Prof. Mingshun SONG

Vice President and Professor, China Jiliang University (China)

CJLU Graduates and Their Career Development in Standardization

**PANEL 2:
THE EFFORTS**

Mr. Toshi KUROKAWA

Chair of International Standardization Education SIG, IIEEJ (Japan)

Competency Requirements of Standards Professionals – An essay or a personal perspective on their skills and senses

A Representative

China National Institute of Standardization (China)

Establishing Knowledge System of Standards Science, and Chinese Experiences in Standards Engineer

Mr. Erik PUSKAR (Moderator)

Society for Standards Professionals (SES)

Enhancing the Knowledge of Standards and Standardization: Experiences in SES Standards Professional Certification Program

Dr. Sooyoung KANG

Chief Researcher, Global Standards Center, Korean Standards Association (Korea)

Developing Knowledge System and Pilot Certification Programs for Standards Professionals in Korea

2015 WSC Academic Day, DAY 3 – Wednesday, August 26, 2015

Benefits of standards and of education about standardization

Daniele Gerundino

International Organization for Standardization (ISO), Director of Research and Education ISO

Professionals in electrotechnology need standards knowledge

Myoung-Jae Shin

IEC Standardization Management Board, Alternate Member from the Republic of Korea and Advisor on International Standards Cooperation, KSA

Communicating standards to future generations

Alessia Magliarditi

Programme Coordinator, Telecommunication Standardization Bureau, ITU

Panel:
Does education about
standardization add
value to professions

Panelists set the scene by providing an overview of the matter based on their experience and insight. All participants are invited to contribute.

Donggeun Choi

Principal Manager, Korean Standards Association (KSA) and ICES Chair 2015, Korea

Kunimitsu Iwadare

Policy Development Division, Japanese Standards Association (JSA)

Erik Puskar

Manager for Global Standards & Information, National Institute of Standards & Technology (NIST), USA

Prof. Knut Blind

Technische Universität Berlin and Fraunhofer Institute for Open Communication Systems, Germany

Panel:
Professors, alumni and
standards users speak
out

Panelists present views and experiences of various players – how, in their opinion, university education about standardization has helped or could help to meet professional and employers' requirements. All participants are then invited to contribute to the discussion.

Dr. Bambang Purwanggono

University Diponegoro, Indonesia, Incoming member of the ICES Board (2015-2018)

Prof. Song Mingshun

Dean of the College of Economics and Management, China Jiliang University

Prof. Heejin Lee

Professor at the Graduate School of International Studies, Yonsei University, Republic of Korea

Dr. Jeffrey Strauss

Acting Director, CTIM and Director of Industry Programs, The Roberta Buffett Institute for Global Studies, Northwestern University, USA

Cooperation between
standards bodies and
universities: an update

Representatives from standards bodies and other organizations provide an update on the initiatives undertaken in the recent past– results achieved and lessons learned.

Prof. Jun Kyun Choi

Korea Advanced Institute of Science and Technology (KAIST)

Andry Prihikmat

National Standardization Agency of Indonesia (BSN)

Daniele Gerundino

International Organization for Standardization (ISO)

10 years ICES – de Vries

- ICES Why?
 - *In addition to standards themselves, the issues relating to human resources involved in standards need to be addressed strategically.*
 - *Companies as well as standards bodies need well-educated standardisation experts.*



- Better ideas
- More approaches and teaching materials
- Recognition among policy makers
 - APEC, UN/ECE, EU
 - National governments
- Increase in initiatives to stimulate education
- **More teaching**



- Industry absence
- Education to promote standards bodies rather than to serve business and society
- Lack of attention for standardisation as a profession for which professional knowledge is needed, underpinned by research

Standards professionals:

soft skills are *required*

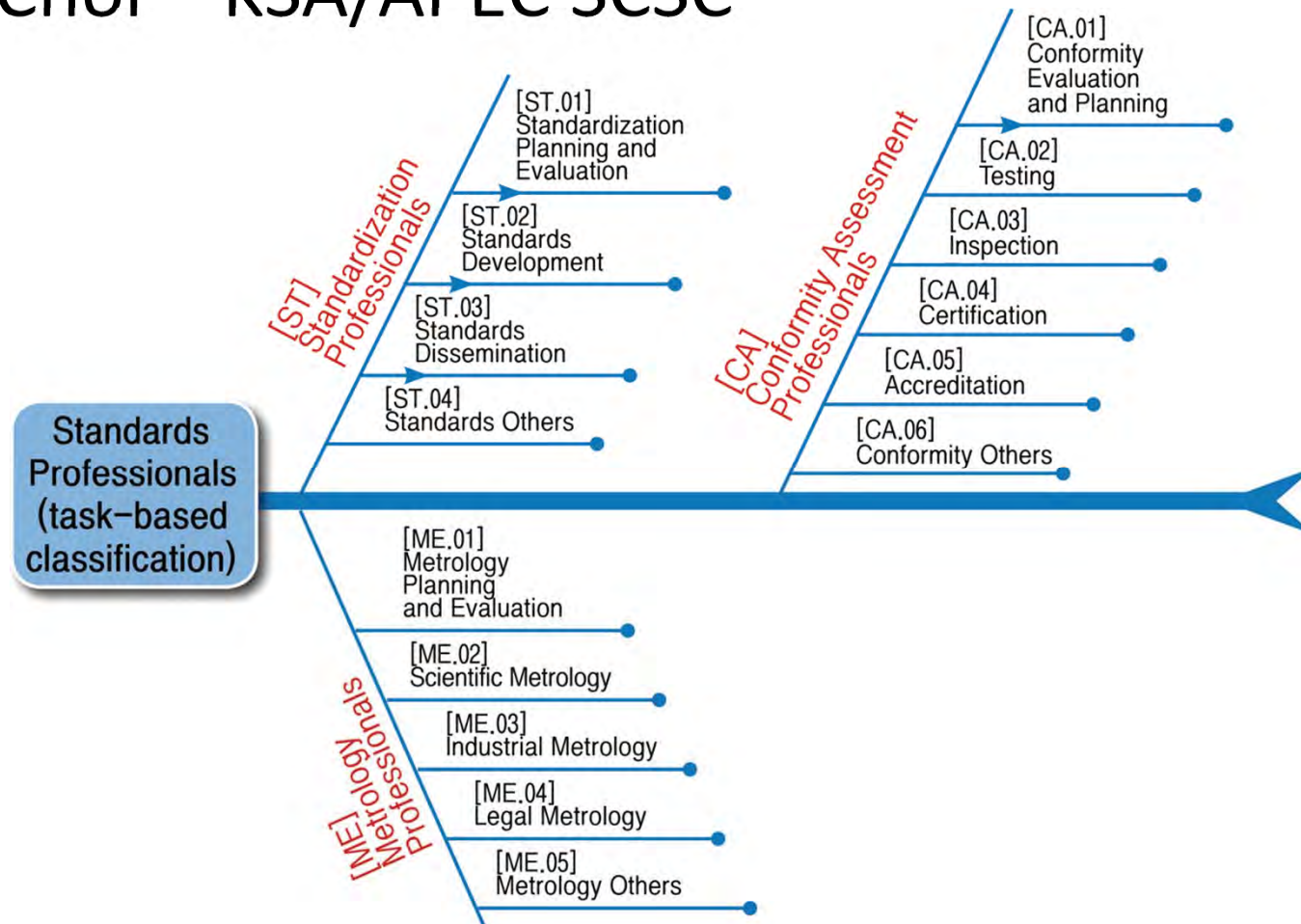
knowledge on standards are *desired*

Carla Freericks - DFKI Bremen

- “demanded skills”, “capabilities”, “competencies”, “candidate’s profile” and “abilities”.
- Human abilities that complement the technical knowledge of the “hard skills”.

How Many People are Working for Standards? – Some Implications from APEC Project

- Choi – KSA/APEC SCSC



Intentionally left blank

- Job Market Estimation
- So how many jobs? (estimated)
- High Needs for Competency requirements
Development in APEC

Informal proposal to ISO

- Supporting – Indonesia, Iran
- Negative – ISO, US, Netherland
- 標準人材の需要についての見方
 - 余剰感 — US
 - 不足感 — Indonesia

いくつかの課題

- 運営は第2世代、大学主体に？
- 企業関係者の参加減少？
- Competency/Skill ISOにするか？
- 学生の就職問題が話題になった
- 参加費と連携模索
- Singapore, Iranが参加、Malaysia不参加