



Inspiring the Next Generation
of Standards Professionals

Annex B.

Project Workshop Program

**9-10 August 2014
Beijing Hotel, China**

Korean Standards Association

Korean Agency for Technology and Standards

For APEC Sub Committee on Standards and Conformance (SCSC)



FINAL DRAFT AGENDA

APEC Conference on Standards Professional Development for Next Generation

Beijing Hotel, Beijing, China (Address: No.33 East Chang'an Avenue)

August 9th, 2014 (Day 1)

CONFERENCE THEME:

- Who and what are standards professionals?
- What are their jobs, competencies, and career models?
- What strategies/actions are needed to develop standards professionals?

KEY TOPICS for CONFERENCE SPEAKERS To ADDRESS :

This conference is designed to focus on defining the **roles, jobs, and competency of standards professionals**, based on real jobs in commercial and non-commercial organizations, which will include the following issues (but not limited to):

- 1) **Defining** who and what are 'standards professionals'
- 2) **Reviewing and Analyzing** practical tasks and roles of standards professionals in real jobs in companies and standards-related organizations
- 3) **Discussing** competency requirements, education programs, and qualification framework for standards professionals
- 4) **Browsing** career paths/models or best practices for standards professionals – do they have future of being an executive or a leader?
- 5) **Presenting** recommendations and priorities to APEC Members to inspire next generation of standards professionals in the region

8:30am - 9:00am **REGISTRATION**

9:00am - 9:10am **WELCOME FROM the SCSC CHAIR**

Mr. Jianping HAN

Deputy Director General, Department of International Cooperation,
AQSIQ, China



9:10am - 9:30am

INTRODUCTION with CONFERENCE CO-CHAIRS

Mr. Donggeun CHOI

Project Editor, APEC SCSC Standards Professional Development
Chief Researcher, Korean Standards Association, Republic of Korea

Ms. Chunjing DU

Director for International Cooperation, Certification and
Accreditation Administration of China (CNCA), China

9:30am – 10:50am

***PANEL 1: VIEWS of EDUCATIONS INSTUTINOS
and SCSC MEMBERS***

MODERATOR

Mrs. Metrawinda TUNUS, Head of Center for education and
promotion of standardization, BSN, Indonesia

SPEAKERS

1-1 <Education Institutions>

Prof. Byung-Goo KANG, Dean and Professor, Korea University, Korea

Prof. Mingshun SONG, Vice President and Professor, China
Jiliang University, China

1-2 <SCSC Members>

Mrs. NURLATHIFAH, Head of Sub Division for Profession
Development of Standardization, BSN, Indonesia

Mr. Donggeun CHOI, Chief Researcher, Standards Policy
Research Center, KSA, Korea

Ms. Atty. ANN CLAIRE CREDO-CABOCHAN, Director-in-Charge,
Bureau of Philippine Standards (BPS), Philippines

- In Panel 1, two speakers from education institutions will discuss the need for definition/classification and career paths of standards professional, and education challenges from teachers' perspective. And, three SCSC representatives may summarize their survey result and provide recommendations on standards professional development (10 minute presentation each)

10:50am-11:20pm

COFFEE BREAK

11:20am - 1:00pm

PANEL 2: STANDARDS-PROFESSIONALS IN COMPANIES

MODERATOR

Mr. Steven TAN, Group Director of Quality & Standards, SPRING, Singapore

SPEAKERS

Dr. Jinming SHA, Director for International Standards, Haier Group, China (ICT/EE industry)

Mr. Toshiyuki KAJIYA, Senior Counselor to International Standardization, Product Safety and Quality Administration Center, Panasonic Corporation, as well as a Japanese member of IEC/CAB member (ICT/EE industry)

Ms. Jiseon PARK, Director of Standards Team, Samsung Research Center in Beijing, Samsung Electronics, Korea (ICT/EE industry)

Mr. Sila Agung WIDYANTORO, Business Development Manager, Wijaya Karya Beton Plc, Indonesia (construction/chemical Industry)

Ms. Jinfeng GENG, Senior Engineer and also Senior Business Manager, Aviation Industry Corporation of China (AVIC), China (aviation/defense industry)

- In Panel 2, five industry speakers are invited to present 1) real tasks of standards-related professionals in their companies, 2) personal history of career development, and 3) their personal suggestions for standards professional development (10 minute presentation each)

1:00pm- 2:30pm

LUNCH BREAK

2:30pm-4:00pm

PANEL 3: STANDARDS PROFESSIONALS

IN STANDARDS SPECIALTY ORGANIZATIONS

MODERATOR

Mrs. Patrica HARRIS, International Standards Specialist, NIST, USA

SPEAKERS

Mr. Damian FISHER, Senior International Development Manager, Standards Australia, Australia (Standards Development Organization)

Mr. Fei LIU, Chief Representative, ASTM International China Office (Standards Development Organization)

Mr. Dennis CHEW, Regional Director, IEC Asia-Pacific Regional Centre (Standards Development Organization)



**Asia-Pacific
Economic Cooperation**



Ms. Eve O'Neill, Program Manager, Asia Pacific and Emerging Markets

Certification Programs Office, UL (Conformity Organization)

Dr. Takayoshi KUROIWA, Manager, Reference Materials Office/Metrology Management, National Metrology Institute of Japan (NMIJ), AIST, Japan (Metrology Organization)

Mr. Wan Abdul Malik WAN MOHAMED, Operations Manager, Technical Department, SIRIM Standards Technology Sdn Bhd, Malaysia (Metrology Organization)

- In Panel 3, six speakers are invited from various standards-specialty organizations -- standards development organizations (SDOs), testing conformity laboratories/bodies, and metrology Institutes
- Each speaker may present 1) real jobs of standards professionals in their organizations, 2) personal history of career development, and 3) their suggestions (10 minute presentation and Q&A)

4:00pm-4:20pm

COFFEE BREAK

4:20pm-5:20pm

PANEL 4: FEEDBACK AND DISCUSSION

MODERATOR 4

Conference Co-Chairs (Ms. Chunjing DU & Mr. Donggeun CHOI)

COCOMMENTERS (invited)

- Three Panel Moderators (Mr. Steven TAN, Mrs. Metrawinda TUNUS, Mrs. Patricia HARRIS)
- The SRB Forum Chair (Mr. Michael FRASER)
- The SCSC Chair (Mr. Jianping HAN)

COMMENTERS (voluntary basis from the floor)

- Three to Five conference participants, both from public and private sectors, will be invited on-site for comments and ideas

5:20pm-5:30pm

CLOSING REMARKS

Conference Co-Chairs

Draft Agenda

APEC SCSC Conference on Standards Professional Development: for Next Generation

Beijing, China
August 10th, 2014

(Day 2 – Close Door session for **Moderators/Speakers only**)

The second day conference is closed roundtable inviting the moderators and speakers of the conference day 1, to have more interactive discussion. Participants of day 2 conference will have intensive time to have more interactive discussion with other speakers and develop summary conclusions of the conference.

Specifically, they will review major issues and identify follow-up actions items of the conference with a view to submitting them to the APEC SCSC 2 for consideration.

The conference summary report will be presented by the Conference Co-Chairs, Mr. Donggeun CHOI and Ms. Chunjing DU at the SCSC 2 plenary meeting, 11 August in Beijing, China. Also, the report will be sub-summed in the final report of the APEC project CTI 07 2013T which will be published at the end of 2014.

9:00am - 9:10am

OPENING

9:10am - 13:00am

REVIEWING THE DISCUSSION OF FIVE MAIN ISSUES

- 1) Definition and classification of 'standards professionals'
- 2) Practical tasks and roles of standards professionals in companies and organizations
- 3) Competency requirements, education programs, and qualification framework for standards professionals
- 4) Career paths/models or best practices for standards
- 5) Recommendations and priorities to APEC Members

13:00am - 14:00pm

LUNCH



Bio of Speakers and Moderators

**APEC Conference on Standards Professional Development
9-10 August 2014
Beijing Hotel, Beijing, China**



Dr. Donggeun CHOI,
Chief Manager,
KSA, Korea

(Conference Co-Chair)

Dr. Dong Geun CHOI is Chief Manager of the Korean Standards Association (KSA). In KSA, Dr. Choi has initiated several projects in APEC Transportation Working Group (TPTWG) in 2003-2008 and APEC Sub-Committee on Standards and Conformance in 2004-present. Dr. Choi the project proponent and editor of the APEC project, Inspiring Next Generation of Standards Professional Development in 2014-2015 and also the APEC Strategic Standards Education Initiative in 2006-2011. He serves as the Board Member of International Cooperation for Education about Standardization (ICES) in 2012-2015.

During his service in KSA, Dr. Choi also visited Standards Coordination Office (SCO), National Institute of Standards and Technology (NIST) in USA in 2012-2013. Before joining KSA, he worked in international cooperation division of Korea Development Institute (KDI) in 1999-2000.

He holds a Master's degree in Transportation Management from Seoul National University, and a PhD degree in the Management of Technology at Sungkyunkwan University. His publications have been published *Technovation*, *Total Quality Management & Business Excellence*, *Scientometrics*, and *International Journal of Technology and Design Education*.



Ms Chunjing DU,
Director, CNCA,
China
(Conference Co-Chair)

Ms. Chunjing DU is Director for International Cooperation, Certification and Accreditation Administration of the People's Republic of China (CNCA). In this role she is responsible for overall coordination of China's involvement in international and regional organizations related to conformity assessment

Ms. Du has participated APEC since 2003, as a delegate/head of delegation of China to APEC/SCSC, a member of the Chinese delegation to the IEC General Meeting, IEC/CAB alternate; member of IEC/CAB WG10, and member of IECEE Policy and Strategy Forum; member of the Chinese delegation to IECEE CMC

 <p>Mrs. Metrawinda TUNUS, Head of Center for Education and Promotion of Standardization, BSN, Indonesia (Panel 1 Moderator)</p>	<p>Mrs. Metrawinda TUNUS became a part of the National Standardization Agency of Indonesia (BSN) since January 2012. She has served as the Head of Center for Education and Promotion of Standardization at BSN since January 2013. Her primary role has been to promote standardization education, both formal and non formal, at the university and vocational high school levels. She is also responsible for conducting training on Standards and Conformity Assessments for stakeholders, industry, conformity assessment body, and academia. She spent most of her carrier in the Ministry of Agriculture, in Bureau of Planning, International Cooperation and Agriculture Quarantine Agency.</p> <p>During 2003-2007 period, she served as Indonesia’s Aggriculture Attache in Washington D.C., U.S.A</p>
 <p>Mrs. NURLATHIFAH, Head of Sub Division for Standards Professional Development, BSN, Indonesia</p>	<p>Mrs. NURLATHIFAH is the Head of Sub Division for Standards Professional Development of the National Standardization Agency of Indonesia (BSN). She holds a Bachelor’s degree in Physics Science from Diponegoro University, Semarang.</p> <p>With twelve years of experience working in BSN, she has been involved in Standard Development and Accreditation. Currently she is Lead Assessor for Product Certification Body and Timber Legality Verification Body, also Assessor for Quality Management Certification Body and Personnel Certification Body of National Accreditation Body of Indonesia (KAN).</p>
 <p>Mrs. Atty. Ann Claire CREDO-CABOCHAN, Director-in-Charge, Bureau of Philippine Standards (BPS), Philippines SCSC Vice Chair</p>	<p>Mrs. Atty. Ann Claire CREDO-CABOCHAN was recently designated as Director-in-Charge of the Department of Trade’s Bureau of Philippine Standards (formerly known as Bureau of Product Standards), the National Standards Body of the Philippines. She holds this new assignment while concurrently heading the Philippine Contractors Accreditation Board (PCAB). Before that, she was Director of the Bureau of International Trade Relations (BITR). Her experience in international trade law rules at BITR and licensing and regulation in PCAB will be definitely be put to good use in BPS.</p> <p>As BPS head, she will Chair the APEC Sub-committee on Standards and Conformance during the Philippine hosting of APEC in 2015.</p> <p>A lawyer and certified public accountant by profession, Atty. Cabochan is also a part-time law professor at the Arellano University School of Law. She is married to a former classmate at the San Beda College School of Law, Atty. Jonas Cabochan, and is mother of one.</p>



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 <p>Prof. Mingshun SONG, Vice President & Professor, China Jiliang University, China</p>	<p>Prof. Mingshun SONG has a Ph.D in Management Sciences from Zhejiang University, China. Currently, he holds a post as Professor & Vice President of China Jiliang University. His current research focuses on quality management and standardization.</p> <p>He has participated in different national and international congresses (the China National Technical Committee for Quality Management Standardization, ISO/CASCO/ WG33, the International Cooperation for Education about Standardization, and others). He has published different articles in journals in his field of research, including <i>ISO Focus</i>, <i>the Journal of Asian Quality</i>, and <i>China Standardization</i></p>
 <p>Prof. Byung-Goo KANG, Dean & Professor, Korea University, Korea</p>	<p>Prof. Byung-Goo KANG received the Ph.D. in Decision Sciences from the Georgia State University, USA. He is now a Professor in the Department of Business Administration in Korea University, the Sejong Campus. His research interests focus on business strategies employing IT and standards.</p> <p>Prof. Kang has participated in many research projects regarding mutual recognition agreements, conformity assessments, standards education, etc. He has published many research articles in journals, including the <i>Journal of Global Business and Technology</i>, <i>the Journal of MIS research</i>, and <i>Information Systems Review</i> as well as numerous research reports.</p> <p>As a remarkable contribution to the national standardization and conformity assessment, Prof. Kang was awarded a Silver Tower, known as an Order of Industrial Service Merit by the President in 2012.</p>
 <p>Mr. Steven TAN, Group Director, SPRING, Singapore</p> <p>(Panel 2 Moderator)</p>	<p>Mr. Steven TAN is the Group Director in the Quality and Excellence Group (QEG) in SPRING. He currently oversees the Standards, Accreditation, Consumer Product Safety and Weights & Measures Programmes. Mr. Tan has been involved in developing and managing a robust and internationally-recognized standards and conformance infrastructure that contributed to Singapore's economic growth for over 25 years. During 2000-2003, he also headed the Productivity and Innovation Division in SPRING.</p> <p>He started his professional career in the area of metrology. He was an assessor for the Singapore Laboratory Accreditation Scheme (SAC-SINGLAS) in the area of electrical metrology and chaired the SINGLAS Technical Committee on Calibration and Measurement in the 1990's. Mr. Tan was instrumental in Singapore attaining the Mutual Recognition Arrangement (MRA) on Measurement in 2005. Mr. Tan has participated in many international and regional Standards & Conformance fora and is currently involved in the ASEAN Consultative Committee on Standards & Conformance (ACCSQ).</p>



Dr. Jinming SHA,
Director for International
Standards, Haier Group,
China

Dr. Jinming SHA had his master degree in University of Science and Technology, Beijing 1992 and his Ph.D from Technical University of Denmark in 2002. He has been working in various industries for many years, including material processing, electrical engineering. He is also working in different functions, such academic research, development, design, project management, quality management, standardization management, etc.

Previously he was working in Nokia, Vestas in Denmark. He returned China in 2012. Now he is international standards director of Haier Group, he is in charge of several international standards and national standards. He has rich experiences of Standardization Management as well as standardized revision of international standards.

Dr. SHA currently works in WPC (wireless power consortium) as co-Chair of Kitchen Working Group, Chair of GC PWG (Great China Promotion Working Group). Sha is committee members of IEC TC100, TC59, TC61 and he is also the secretary of TC46/SC16 in China.



Mr. Toshiyuki KAJIYA,
Senior Counselor,
Panasonic Corporation,
Japan

Mr. Toshiyuki KAJIYA was born in 1951. After a graduation of the Master Course of Mechanical Engineering in Kyoto Institute of Technology, he joined Matsushita Electric Industry Co. Ltd., currently Panasonic Corporation, as a design engineer of motor appliances. In 1981, he was transferred to Corporate Engineering Division to take care of European Technical Regulations, and in 1985, he was again transferred to Germany as a Panasonic Representative of European Technical Regulations until the end of 1993.

After he returned home in Japan, he was assigned as a group manager of overall International Technical Regulations, and at the same time he started to take leadership in the industry association, currently Japan Electronics & Information Technology Industries Association (JEITA), and to be a liaison with METI.

In 2005, he was assigned as a chair of Japan National Committee on IECEE, and in addition, he was approved as a Japanese Representative of IEC Conformity Assessment Board (CAB) in 2009.

As a remarkable contribution to the international standardization in the field of conformity assessment representing the industry sector, he was awarded by the Minister of METI in 2008.



Ms. Jiseon PARK,
Head of Standards Team,
Samsung Research Center
in Beijing, Samsung
Electronics, Korea

Ms. Jiseon PARK has taken in charge of China standard team of Samsung Research Center since 2012. In this role she has extensive knowledge and experience on regulations and technical/products standards in China.

Before joining China standard team, she was actively involved in industry alliance as the strategist including BoD member of HDMI Forum and Founder of MHL forum.

She has various experiences on technical Planning, outsourcing/Alliance and strategic standardization for 20 years in Samsung electronics.



Mr. Sila Agung
WIDYANTORO,
Business Development
Manager, Wijaya Karya
Beton Plc, Indonesia

Mr. Sila Agung WIDYANTORO is a Business Development Manager at Wijaya Karya Beton Plc., a Pre-stress Concrete Product Manufacturer. The holding group of this company has awarded SNI (Indonesia National Standard) Award in 2008 and elected as pilot implementation of ISO Methodology in Assessing Economic Benefit of Standards in 2010 to 2011.

In the previous task (1999 to 2010) as the Branch Manager one of his duties was the ISO 9001 Project Representative.

He graduated as Civil Engineer from Institute Technology of Sepuluh November Surabaya in 1987 and also has a master's degree (MBA) from [Institut Management of Business & Administration](#) in 1991.

In the field of organization, he has an experience as a Chairman of Indonesia Pre-stress Concrete Pole Manufacturer Association.



Ms. Jinfeng GENG,
Senior Engineer/Manager,
AVIC, China

Ms. Jinfeng GENG is holding a Master degree for quality management direction. She is Senior Engineer and also Senior Business Manager in quality and safety management department of Aviation Industry Corporation of China (AVIC).

She has been mainly engaged in the construction of quality management standard and system of AVIC, quality information management, CAQG (China Aviation Quality Group), Published more than 10 papers.



Mrs. Patrica HARRIS,
International Standards
Specialist, NIST,
USA

(Panel 3 Moderator)

Mrs. Pat HARRIS is an International Standards Specialist at NIST, managing the Standards In Trade Program. She has extensive experience in the standards development arena at the national and international levels. For twenty years Pat managed an ANSI-accredited standards setting organization and was directly involved in international standards development through the ISO. As secretariat for an ISO Subcommittee and the U.S. Technical Advisory Group to an ISO Technical Committee she learned first-hand about standards development processes and systems.

In her career, Pat has engaged in a number of standards activities that have demonstrated the value of standardization to enabling innovations in information technology, including standardization of the file structures for the CD-ROM and e-books.

She is a graduate of the Randolph Macon Woman's College, holds an M.S. from the University of North Carolina-Chapel Hill, and currently serves on the Board of Visitors to the UNC-Chapel Hill School of Information and Library Science.



Mr. Damian FISHER,
Senior International
Development Manager,
Standards Australia (SA),
Australia

Mr. Damian FISHER is a senior member of Australia's National Standards Body, Standards Australia. He is responsible for coordinating and managing international standards work and leads the organisation's capacity building and institutional strengthening program. Damian has also led a number of APEC SCSC sponsored projects. He is a member of ISO's Developing Countries (DEVCO) Chairs Advisory Group and the past Chair of the SRB Forum.

Damian has extensive experience in international business, project management and business consulting. He has more than 28 years' experience in international business and is a former senior Australian trade diplomat. His postings included appointment as Consul General and Senior Trade Commissioner based in Turkey. Damian also served with the Australian Embassy in Riyadh, Kingdom of Saudi Arabia where he was accredited as Counsellor (Commercial) and Senior Trade Commissioner for Saudi Arabia, Kuwait and Bahrain. He is also a co-author of a number of publications including a book, *Export Best Practice: Commercial and Legal Aspects*, The Federation Press, Sydney. Damian is based in Sydney, married and has three daughters.



Mr. Fei LIU,
Chief Representative,
ASTM International

Mr. Fei LIU is the chief representative of ASTM international. Prior to joining ASTM in 2006, Liu Fei was the director of operations for the China Consortium on Standards and Conformity Assessment, of which ASTM International was a member. His responsibilities are to work with ASTM staff and technical committees to work with Chinese and surrounding Asian governments, business and industry in the application of ASTM standards and the development system.

Established in 2005, the Standards Expert Program (SEP) is a key benefit offered to MOU signatories. Each year, through the SEP, ASTM offers to host up to three standards experts for a one-month period at ASTM headquarters. Experts participating in the Program from China included He Ting in 2005 and Pan Beichen in 2009.



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 <p>Mr. Dennis CHEW, Regional Director, IEC APRC</p>	<p>Mr. Dennis CHEW has been actively involved in international and regional standardization and related activities for more than 15 years. He also regularly and actively participates in the meetings of regional regulatory authorities and organizes seminars with IEC National Committees in the region.</p> <p>Dennis has extensive knowledge and experience on technical regulations, standards and conformance infrastructure and developments in APEC and ASEAN, having been involved in the development and implementation of the ASEAN Harmonized Regulatory Regime for Electrical and Electronic Equipment, regional Mutual Recognition Arrangements and the regional harmonization of standards and regulatory requirements. Dennis graduated from the University of Aberdeen with a Bachelor of Engineering (Electrical) Honors degree.</p>
 <p>Ms. Eve O'NEILL, Program Manager, UL</p>	<p>Ms. Eve O'NEILL is a dedicated quality and conformity assessment professional with more than 18 years of experience. As Program Manager for Asia Pacific and Emerging Markets at UL, she oversees the development of conformity assessment programs, and is responsible for managing programs that provide market access to Asia Pacific and Emerging Markets. Her experience includes market research, strategic planning, business/program development, contract negotiation, project/program management and government affairs.</p> <p>Eve was a key player in establishing UL's joint venture in China while on assignment in Shanghai from 2001 to 2004. She also worked in UL's Beijing Office serving as Acting Manager for China Government Affairs. Eve worked for the American Society for Quality (ASQ) prior to joining UL in 1998. She received her Master of Business Administration (MBA) degree from Marquette University in Milwaukee, Wisconsin.</p>
 <p>Dr. Wan Abd Malik WAN MOHAMED, Operations Manager, SIRIM Standards Technology, Malaysia</p>	<p>Dr. Wan Abd Malik WAN MOHAMED is currently serves as an Operations Manager of SIRIM Standards Technology Sdn. Bhd. He received his BSc degree in Electrical Engineering from Seoul National University, South Korea in 1990 and PhD degree in Pressure Metrology from Loughborough University, UK in 2006.</p> <p>With more than 23 years of experience in metrology field, he managed to get himself involved in various fields of metrology such as scientific, industrial and legal metrology. His area of specializations includes pressure metrology, mass metrology and legal metrology (weighing instrument and pre-packaged products).</p> <p>Since 2006, Dr. Wan Abd Malik has participated as one of the Malaysian delegates in international fora such as Asia-Pacific Metrology Programme (APMP) in the field of Mass and its Related Quantities. From 2009, he was then task to represent Malaysia in Asia-Pacific Legal Metrology Forum (APLMF), ASEAN Consultative Committee for Standards and Conformance (ACCSQ) and ACCSQ-WG 3 (Legal Metrology). He is now the Chairman of ACCSQ-WG 3, since 2010.</p>

 <p>Dr. Takayoshi KUROIWA Manager, Reference Materials Office, NMIJ, AIST</p>	<p>Dr. Takayoshi KUROIWA is Manager, Reference Materials Office/Metrology Management Center & Inorganic Analytical Chemistry Division of National Metrology Institute of Japan (NMIJ), AIST.</p> <p>From 2001 to present, Dr. Kuroiwa has worked in NMIJ which is part of the National Institute of Advanced Industrial Science and Technology (AIST). His experiences includes developing and establishing the accurate trace metal analysis and speciation analysis of organo-metals for environmental and food samples, and developing certified reference materials (CRMs) as the researcher of the Environmental Standards Section of Inorganic Analytical Chemistry Division.</p>
 <p>Mr. Michael FRASER, APLAC Secretary SRB Forum Chair</p>	<p>Mr. Michael FRASER is Manager International Liaison with the National Association of Testing Authorities, Australia (NATA). NATA is the authority responsible for the accreditation of laboratories, inspection bodies, calibration services, producers of certified reference materials and proficiency testing scheme providers throughout Australia. It is also Australia's compliance monitoring authority for the OECD Principles of GLP. NATA under a Deed of Agreement provide staff for the Asia Pacific Laboratory Accreditation Cooperation secretariat.</p> <p>Mr. Fraser, in his various roles at NATA since December 1989, has been involved in national, regional and international standardisation and conformity assessment activities. He earned a Bachelor of Science degree in Chemistry from the Melbourne University Victoria, Australia and a graduate Diploma of Education from Hawthorn Institute of Education, Victoria, Australia.</p> <p>Since July 2010 Mr. Fraser has been the secretary of Asia Pacific Laboratory Accreditation Cooperation, one of the five Specialist Regional Bodies of APEC.</p>