



AGENDA

APEC FSCF PTIN Regional Laboratory Capacity Building Workshop Bangkok, Thailand August 25 – 26, 2011

DAY 1

- 8:00 **Registration**
- 8:35-9:00 **Introductions and Welcoming Addresses:**
- Dr. Suwimon Keeratipibul, Head, Center of Food Safety and Food Defense, Chulalongkorn University
 - Orestes Vasquez, U.S. Department of Agriculture/Foreign Agricultural Service (USDA/FAS) in Bangkok
 - Dr. Niphon Popattanachai, Deputy Director General, Department of Medical Sciences, Ministry of Public Health
- 9:00-9:30 **Global Context of Food Safety**
- Dr. Hans-Joachim Huebschmann, Thermo Fisher
- OBJECTIVE: Why testing is important to achieve food safety and why we do testing. Highlight the intricacies involved in establishing and maintaining food safety laboratory capacity for multiple laboratory types in accordance with multiple national regulations and Codex guidelines.
- 9:30-9:45 **Importance of Laboratory Capacity to Trade/Industry**
- Shannon Cole, Grocery Manufacturers Association (GMA)
- OBJECTIVE: Importance of proper laboratory testing and its economic impacts for import/export.
- 9:45-10:00 **Importance of Laboratory Capacity: Public Health Implications**
- Dr. Lalith Goonatilake, UN Industrial Development Organization (UNIDO)
- OBJECTIVE: Explain positive impacts of proper testing on public health (i.e. fewer hospitalizations, deaths). Emphasis on importance of reducing false negatives (with testing from both partners); shared burden ultimately increases surveillance.
- 10:00-10:30 BREAK
- 10:30-10:45 **Importance of Laboratory Capacity: Specialist Regional Bodies' (SRB) Perspective:**
- Dr. SK Wong, Government Laboratory Hong Kong, APMP
- OBJECTIVE: Provide economies with information on where and how they can improve their laboratory capacity. The need for ISO/IEC 17025:2005 standard accreditation. Highlight how this standard has both management and technical requirements and that through customer focus the management requirements will drive the technical requirements through the concept of 'fit for purpose.'
- 10:45-11:00 **Economic Support and Sustainability of Labs**
- Dr. Laurie Besley, National Measurement Institute (NMI), Australia
- Objective: Importance of economic support of labs. Stress importance of knowing customer and their requirements in order to ensure customer driven income and acquisition of appropriate equipment.



11:00-11:15 **Global Context of Food Safety: Questions & Answers** All Speakers

11:15-12:00 **APEC Laboratory Capacity Assessment Results** Dr. Alejandro Echeverry, Texas Tech University

OBJECTIVE:
Broad overview of the food safety laboratory capacity assessment findings. This will be followed by more in-depth presentation of preliminary results on Day 2 and Roundtable discussions on where the FSCF/PTIN can add value.

12:00-12:15 **Training Module I: Management Systems** Moderator - Darryl Sullivan, Covance, AOAC

OBJECTIVE: Elements of continuous improvement, the importance of management driven systems and the need for customer focus. Understand critical role of quality assurance in ensuring that laboratories accurately detect and quantify food safety risks. Underscore importance of validating methods according to internationally accepted standards such as ISO 17025 for ensuring food safety and facilitating trade. Underscore importance of method validation, measurement uncertainty, internal quality control and traceability, and accreditation.

12:15-12:55 **High Level Importance: ISO 17025 Microbiology compliance** Thamolwan Laovittayanurak, 3M Thailand

OBJECTIVE: Reinforce participants' knowledge of technical principles of ISO 17025 and attitudes required for successful performance in food safety. Emphasize that the overwhelming majority of food poisoning incidents are caused by microbial contamination and thus food microbiology laboratories are of critical importance in the risk assessment process. Ramifications of a wrong result in the food safety risk analysis process such as the recent case in Germany where Spanish cucumbers were incorrectly identified as the cause of E.coli 0104 poisoning.

12:55-2:00 Lunch in Citi Bistro

2:00-2:40 **High Level Importance: ISO 17025 Chemical compliance** Darryl Sullivan, Covance, AOAC

OBJECTIVE: Reinforce participants' knowledge of chemical technical principles of ISO 17025 and attitudes required for successful performance in food safety. Gaining analytical chemistry expertise through practice and experience. Principles of the process of equipment qualification.

2:40-2:55 **Importance of Reference Materials and Where to get them** WW Wong, Hong Kong Accreditation Service (HKAS)

OBJECTIVE: Discuss importance of using internationally competent, regional/certified food reference materials and sources to obtain secondary reference materials

2:55-3:25 BREAK

3:25-3:45 **Quality Assurance: Case Study: Thailand** Boonme Kanjanopas, Betagro

OBJECTIVE: Lesson learned from validating temperature controlled equipment in microbiological testing labs including incubators, water baths, ovens and refrigerators: Calibration, uncertainty



- 3:45-4:00 **Quality Assurance: Question & Answer Session** All speakers

- 4:00-4:20 **Risk Surveillance Case Study: Thailand Model**
Dr. Panadda Silva, Ministry of Public Health, Thailand
OBJECTIVE: Provide a concept and success model of how Thailand is using test kits as a scanning tool for food safety risk surveillance in the community by local authorities.

- 4:20-4:25 **Risk Surveillance Case Study: Question & Answer Session**

- 4:25-4:40 **Overview of the Day/Adjourn** Cathy McKinnell, USDA

- 5:00 Reception in Studio Bar

- 6:30 Dinner in Jamjuree Ballroom A



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DAY 2

- 8:30 Day 1 Review/Day 2 Preview Cathy McKinnell, USDA/FAS
- 8:40-8:50 **Training Module II: Fit-for-Purpose Analytical Methods**
Moderator Dr. Panadda Silva, Ministry of Public Health, Thailand
OBJECTIVE: Understand how fit-for-purpose analytical methods can be either an effective food Safety control mechanism or an administrative impediment to trade.
- 8:50-9:45 **A Comprehensive Approach to Fit-for-Purpose Analytical Methods**
Dan Schmitz, Abbott Nutrition
OBJECTIVE: Provide an overview of the AOAC Stakeholder Panel process followed by a description of the key process elements: 1) Development of Standard Method Performance Requirements (SMPRs), 2) Down-selection of methods, 3) Method validation, and 4) Performance verification (i.e., collaborative study). A case study will be provided on the AOAC SPIFAN (Stakeholder Panel on Infant Formula and Adult Nutritionals) initiative.
- 9:45-10:05 **Fit-for-Purpose Analytical Methods: Case Study**
Dr. Henry Chin, Coca Cola
OBJECTIVE: Examine current issues in determining appropriate analytical methods to educate government laboratory managers on the link between fit-for-purpose methods and effective food Safety management: DEHP contamination
- 10:05-10:15 **Fit-for-Purpose Analytical Methods: Question & Answer Session** All Speakers
- 10:15- 10:45 BREAK
- 10:45-10:55 **Training Module III: Sampling, Data Analysis and Data Interpretation**
Moderator - Maria Estela Ayala, Instituto Tecnológico Pesquero (ITP), Peru
OBJECTIVE: Tie-in of prior fit-for-purpose section to food safety/public health being introduced in this section. The process approach as an integral part of the implementation of a laboratory management system.
- 10:55-11:15 **Importance of Structured Sampling Plans and Accurate Product Sampling**
Dr. Emilio Esteban, USDA/Food Safety and Inspection Service (FSIS)
OBJECTIVE: Overview of good sampling techniques/practices and statistical aspects of sampling (i.e. how many samples should we take), data analysis and examples: CODEX recommended methods for validation of qualitative and quantitative food safety sampling and sampling plans.
- 11:15-11:45 **Importance of International Standards and MRLs and MLs for Accurate Data Analysis**
Pisan Pongsapitch, National Bureau of Agricultural Commodity and Food Standards (ACSF), Thailand



FSCF Food Safety
Cooperation Forum
PTIN Partnership Training
Institute Network



OBJECTIVE: Discuss how international standards in Safety control limits (MRLs, MLs) are essential in facilitating safe food trade.

- 11:45-12:05 **Data for Public Health Decision Making** Maria Estela Ayala, ITP Peru
OBJECTIVE: Examine data interpretation and how data is actually used to make real life decisions related to food safety. Limit of Detection (LOD) vs. Limit of Quantification (LOQ) for data analysis and method validation. Determining public health and safety issues and avoiding false alarms. Importance of the measurement uncertainty in decision making and its critical role in risk assessment.
- 12:05-12:40 **Sampling, Data Analysis and Scientific Evaluation: Case Study: The 2008 Pepper Outbreak in the U.S** Dr. Sufian Al Khaldi, US Food and Drug Administration
OBJECTIVE: Lessons learned from the U.S. food outbreak of Salmonella Saintpaul isolated from pepper. Sample collection from the field and sample analysis in the lab. Development of Standard Operating Procedure.
- 12:40-12:50 **Sampling, Data Analysis and Scientific Evaluation: Q&A Session** All Speakers
- 12:50-2:00 LUNCH
- 2:00-2:45 **Food Safety Laboratory Capacity Assessment Results** Dr. Alejandro Echeverry, Texas Tech University
OBJECTIVE: Provide details on each of the nine areas the assessment probed. Then conduct roundtables on what we learned and where the FSCF/PTIN can add value.
- 2:45-3:00 **Food Safety Laboratory Capacity Assessment Results: Q&A Session** All Speakers
- 3:00-3:30 Break
- 3:30-4:45 **Roundtable on FSCF/PTIN Way Forward in Lab Capacity Building** Dr. Laurie Besley, NMI Australia
OBJECTIVE: Break up into smaller groups and based on the assessment results discussion, provide concrete recommendations to the PTIN on which priority areas to focus on to add value, what order would prove most beneficial and appropriate performance measures to use.
- 4:45-5:15 **Consolidation of Roundtable Recommendations** Dr. Suwimon Keeratipibul, Chulalongkorn University
- 5:15 **Presentation of Certificates and Conclusion** Cathy McKinnell, USDA
- 5:30 **Adjourn**