



APFAN in association with  
the Indonesian Food Analysis Network (IFAN) and  
the Asosiasi Laboratorium Pangan Indonesia (ALPI) presents:

# Trends in Quality Management - Improving Your Laboratory's Proficiency

## **APFAN WORKSHOP**

**Wednesday 25<sup>th</sup> to Friday 27<sup>th</sup> July 2018**

**Holiday Inn Jakarta Kemayoran  
Jalan Griya Utama, Blok B No. 1  
Sunter, Tanjung Priok  
Jakarta 14350  
INDONESIA**

## WELCOME TO JAKARTA, INDONESIA

On behalf of the APFAN Committee, I welcome you to Indonesia's capital. Jakarta is an eclectic mix of cultures with thousands of restaurants and inexpensive street food offering many choices. Jakarta shopping opportunities are many, with modern malls interspersed with traditional markets. The Workshop venue is ideally located adjacent to the 18-hole Kemayoran Golf course and minutes' drive to shopping and culinary havens of Kelapa Gading and Mangga Dua as well as the famous Dunia Fantasi theme park in Ancol, which features seaside water parks, beaches and amusement rides. The main Jakarta sights include Monas National Monument in Merdeka square. Or get away from the hustle and bustle to Taman Mini Indonesia Indah, a suburban park celebrating Indonesia's rich culture through museums and dance and film.

The objective of this Workshop is to develop delegates' working knowledge of the activities within the laboratory's integrated management system that will improve overall laboratory proficiency. The APFAN PT1 results and trends will be discussed in more detail, to highlight any common problems, as well as discussing new developments in international quality systems standards and food analysis. Delegates will be able to identify the procedures and culture a laboratory should adopt to ensure that their management system addresses all risks, and that it is effectively managed. They will gain an idea of the latest trends in quality standards that they can incorporate into their own management system.

The Workshop's program is designed to be interactive, with the opportunity for delegates to truly participate through presenting Papers (25 minute talk plus 5 minutes questions) as well as raising Discussion Topics (5 minute outline plus 10 minutes discussion). Discussion Topics can be a brief report on your work or findings, or can be a comment or question you would like to put to the larger group to discuss. An added bonus is that each delegate will be given free of charge the PT2 materials for the second phase of the current APFAN project.

APFAN is a special project of the Federation of Asian Chemical Societies (FACS) and was formed at the Third Asian Chemical Congress in Brisbane in 1989. The aim of APFAN is to serve the needs of food analysts and thereby promote food quality and safety and good nutrition. This is achieved by promoting and supporting (reliable) food analysis laboratories in the region, indirectly contributing to the improvement of regional food security.

The goal of the current APFAN project is to provide laboratories in the Asia Pacific region access to inexpensive PT trials in order to assess their performance compared to their peers. By focusing on the practical aspects of the ISO/IEC 17025 Standard, Proficiency Testing, and Workshops, this project will assist participants to identify, assess and implement actions that address any technical shortfalls of their organisations.

Many thanks go to the organisations and individuals who have contributed to the success of the APFAN project so far, in particular, Charoen Pokphand Group (CP) and PT. Indofood CAP Sukses Makmur Tbk for preparation of the PT1 test materials. I am also happy to advise that Agilent Technologies is a Silver Sponsor for this Workshop and other APFAN activities in 2018.

I look forward to further cooperation with you in the remaining activities of the current APFAN project and beyond as we realize our goal, which is to improve the proficiency and capabilities of food testing laboratories in the Asia Pacific region, enabling the participants to improve their methodologies and adopt a more uniform approach to regional food analysis.

Yours sincerely



**Prof. Dr. F. G. Winarno**  
COORDINATOR  
**APFAN (ASIA PACIFIC FOOD ANALYSIS NETWORK)**  
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A very special **Thank You** to our sponsors:



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**Institute of Nutrition, Mahidol University (INMU)**

**PT2 material provider**

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# TECHNICAL PROGRAM

DAY 1 WEDNESDAY 25 <sup>TH</sup> JULY 2018	
8:30 am - 9:00 am	Registration
9:00 am - 9:10 am	Workshop Welcome and Introduction <b>F. G. Winarno</b> , Coordinator APFAN
9:10 am - 9:25 am	"Introduction to FACS and APFAN", <b>Stewart Jones</b> , Deputy Coordinator APFAN
9:25 am - 9:30 am	Presentation of Door Prize
<b><u>Session 1: Laboratory Accreditation and Recent Updates to ISO/IEC 17025 and ISO 9001</u></b> <b>Chair: Prapasri Puwastien</b> <b>Suggested topics:</b> <ul style="list-style-type: none"> <li>- General overview of the ISO/IEC 17025:2017 risk management system;</li> <li>- The gap between ISO/IEC 17025:2005 and 17025:2017;</li> <li>- Management aspects of ISO 9001 and ISO/IEC 17025: Human resources and laboratory safety; and</li> <li>- Delegates' experience in gaining and maintaining accreditation.</li> </ul>	
9:30 am - 10:15 am	International Keynote Speaker: "Risk Management Approach and Risk Assessment for the Testing Laboratory Based on ISO/IEC 17025:2017", <b>Stewart Jones</b> , Sonnedge Asia Pacific, Australia
10:15 am - 10:30 am	Discussion Topic: "Delegates' experience in gaining and maintaining accreditation", <b>Chair</b>
10:30 am - 11:00 am	MORNING TEA
<b><u>Session 2: Technical Requirements for Chemical and Microbiological Methodologies</u></b> <b>Chair: Kunchit Judprasong</b> <b>Suggested topics:</b> <ul style="list-style-type: none"> <li>- Method selection and development;</li> <li>- Method validation and verification;</li> <li>- Statistical evaluation; and</li> <li>- Calibration requirements.</li> </ul>	
11:00 am - 11:15 am	Discussion Topic: "Accreditation Requirements for Method Development and Validation", <b>Stewart Jones</b> , Sonnedge Asia Pacific, Australia
11:15 am - 11:45 am	Delegate Paper: "Method Development and Validation for Analysis of Preservative, Artificial Sweetener and Stimulants in Juice and Carbonated Beverages by HPLC", <b>Mohammad Shoeb</b> , Department of Chemistry, University of Dhaka, Bangladesh
11:45 am - 12:00 pm	Discussion Topic: "Selection and Efficiency of Digestion Procedures Prior to Instrumental Analysis", <b>Ujang Tinggi</b> , Public and Environmental Health, Forensic and Scientific Services, Health Support Queensland, Department of Health, Australia
12:00 am - 12:15 pm	Discussion Topic: "Quality Management of Nutrient Analysis in Food", <b>Moh Moh Hlaing</b> , Nutrition Research Division, Department of Medical Research, Dagon Township, Republic of the Union of Myanmar
12:15 am - 12:30 pm	Discussion Topic: "Delegates' experience in method development and validation", <b>Chair</b>
12:30 pm - 1:15 pm	LUNCH
<b><u>Session 3: Estimation of Measurement Uncertainty</u></b> <b>Chair: Hasnah Haron</b> <b>Suggested topics:</b> <ul style="list-style-type: none"> <li>- ISO/IEC 17025 requirements for estimation of Measurement Uncertainty (MU) and its documentation;</li> <li>- Statistical calculations used in MU; and</li> <li>- Example uncertainty budgets.</li> </ul>	
1:15 pm - 2:15 pm	Keynote Speaker: "Measurement Uncertainty", <b>Yohanes Susanto R.</b> , Research Unit for Clean Technology, Indonesian Institute of Sciences, Bandung, Indonesia

2:15 pm - 2:45 pm	Delegate Paper: "ISO/IEC 17025:2017 Gap Analysis", <b>Stewart Jones</b> , Sonnedge Asia Pacific, Australia
2:45 pm - 3:00 pm	Discussion Topic: "Delegates' experience in estimation of measurement uncertainty", <b>Chair</b>
3:00 pm - 3:30 pm	AFTERNOON TEA
<b>Session 4: Measurement Traceability, Reference Materials and Proficiency Testing</b> <b>Chair: Ujang Tinggi</b> <b>Suggested topics:</b> - Concepts of measurement traceability; and - The role, production of and use of Reference Materials (RMs); and - Proficiency Testing (PT) requirements in 17025.	
3:30 pm - 4:00 pm	Keynote Speaker: "Proficiency Testing and Accreditation in Indonesia", <b>To be advised</b> , KAN/BSN (Komite Akreditasi Nasional/Badan Standardisasi Nasional), Indonesia
4:00 pm - 4:15 pm	Discussion Topic: "Improving Your Laboratory's Proficiency", <b>Stewart Jones</b> , Sonnedge Asia Pacific, Australia
4:15 pm - 4:30 pm	Discussion Topic: "Delegates' experience in measurement traceability, RMs and PT", <b>Chair</b>
4:30 pm	Close

<b>DAY 2 THURSDAY 26<sup>TH</sup> JULY 2018</b>	
<b>Session 5: APFAN Proficiency Testing 1 (APFAN PT1)</b> <b>Chair: Rosemarie J. Dumag</b> <b>Suggested topics:</b> - APFAN PT1 programme based on ISO/IEC 17043:2010 and ISO 13528:2015; - Statistical evaluation 1: Homogeneity and stability testing; - Statistical evaluation 2: Assigned values and measurement uncertainties; - Statistical evaluation 3: Performance evaluation; and - Results and discussion: Status of performance.	
9:00 am - 10:00 am	International Keynote Speaker: "Report on Asia Pacific Food Analysis Network (APFAN) Proficiency Testing Activity", <b>Kunchit Judprasong</b> , Quality Manager of ISO 17025 laboratory and ASEANFOODS Coordinator, Institute of Nutrition, Mahidol University (INMU), Thailand
10:00 am - 10:15 am	Discussion Topic: "Delegates' experience in the APFAN PT1 round", <b>Chair</b>
10:15 am - 10:30 am	Exercise: "Heads and Tails", <b>Stewart Jones</b> , Deputy Coordinator APFAN
10:30 am - 11:00 am	MORNING TEA
<b>Session 6: APFAN Proficiency Testing 1 (APFAN PT1) (continued)</b> <b>Chair: Mohammad Shoeb</b> <b>Suggested topics:</b> - Best practices in test material preparation, homogeneity and stability studies, development of the assigned values, and evaluation; and - Improving laboratory performance in Proficiency Testing.	
11:00 am - 11:30 am	International Keynote Speaker: "Common Problems and Keys for Improving Proficiency Testing", <b>Prapasri Puwastien</b> , Institute of Nutrition, Mahidol University (INMU), Thailand
11:30 am - 11:45 am	Discussion Topic: "Delegates' experience in the APFAN PT1 round", <b>Chair</b>
11:45 am - 12:15 pm	Delegate Paper: "Traceability and Internal Quality Control (IQC)", <b>Stewart Jones</b> , Sonnedge Asia Pacific, Australia
12:15 pm - 12:30 pm	Discussion Topic: "Distribution of PT2 Materials", <b>Stewart Jones</b> , Deputy Coordinator APFAN
12:30 pm - 1:15 pm	LUNCH
<b>Session 7: Advanced Methods for Analysis of Food and Water</b> <b>Chair: Ying Xu</b>	

<b>Suggested topics:</b> - Macro metals Na, K, Ca, Mg and Fe; - Heavy metals in marine biota and milk and milk products; - Metals analysis by ICP-OES and by AAS; and - Analysis of micronutrients essential for good health.	
<b>1:15 pm - 2:00 pm</b>	International Keynote Speaker on Metals Analysis: "Mineral and Trace Element Analysis, and the Benefits of Essential Trace Elements in Human Health", <b>Ujang Tinggi</b> , Public and Environmental Health, Forensic and Scientific Services, Health Support Queensland, Department of Health, Australia
<b>2:00 pm - 2:15 pm</b>	Discussion Topic: "The Food Testing Laboratory's Role in Food Safety" <b>Stewart Jones</b> , Sonnedge Asia Pacific, Australia
<b>2:15 pm - 2:30 pm</b>	Discussion Topic: "Environmental Impacts on Food Safety and Quality", <b>Stewart Jones</b> , Sonnedge Asia Pacific, Australia
<b>2:30 pm - 2:45 pm</b>	Sponsor's Message: "Instrumental Techniques", <b>Agilent Representative</b> , Agilent Technologies
<b>2:45 pm - 3:00 pm</b>	Discussion Topic: "Delegates' experience in instrumental methods for analysis of food and water", <b>Chair</b>
<b>3:00 pm - 3:30 pm</b>	AFTERNOON TEA
<b>Session 8: Advanced Methods for Analysis of Food and Water (continued)</b> <b>Chair: Theingi Thwin</b> <b>Suggested topics:</b> - Microbiological standard methods and Reference Cultures; - Validation / verification of qualitative microbiological methods; and - Validation / verification of quantitative microbiological methods.	
<b>3:30 pm - 4:00 pm</b>	Delegate Paper: "Tea Polyphenols Testing in Beverages", <b>Ying Xu</b> , Asia Pacific Technical Center: The Coca-Cola Company, Shanghai, China
<b>4:00 pm - 4:15 pm</b>	Discussion Topic: "Delegates' experience in advanced methods for analysis of food and water", <b>Chair</b>
<b>4:15 pm - 4:30 pm</b>	Discussion Topic: "Registration for the 7 <sup>th</sup> APFAN Analytical Conference (7AC), to be held in conjunction with the 2 <sup>nd</sup> International Conference on Food Analysis (2 <sup>nd</sup> ICFA)", <b>Stewart Jones</b> , Deputy Coordinator APFAN
<b>4:30 pm</b>	Close

### DAY 3 FRIDAY 27<sup>TH</sup> JULY 2018

<b>Session 9: Methods for Nutrients and Vitamins Analysis in Foods</b> <b>Chair: Mohamad Aripin</b> <b>Suggested topics:</b> - Methods for protein, fat and ash; - Methods for nutritional labelling; - Methods for dietary fibre; and - Methods for vitamins in foods.	
<b>9:00 am - 9:30 am</b>	Delegate Paper: "Characterization Micro Nutrient Using Neutron Activation Analysis and Related Method", <b>Muhayatun Santoso</b> , Center for Applied Nuclear Science and Technology - National Nuclear Energy Agency (BATAN), Indonesia
<b>9:30 am - 10:00 am</b>	Delegate Paper: "Sugar Content in Selected Malaysian Food", <b>Hasnah Haron</b> , Nutritional Sciences Programme, Faculty of Health Sciences, UKM (National University of Malaysia), Kuala Lumpur, Malaysia
<b>10:00 am - 10:15 am</b>	Discussion Topic: "Fatty Acids Profile of Commonly Consumed Fish", <b>Theingi Thwin</b> , Department of Medical Research, Yangon, Myanmar
<b>10:15 am - 10:30 am</b>	Discussion Topic: "Delegates' experience in methods for nutrients and vitamins analysis", <b>Chair</b>
<b>10:30 am - 11:00 am</b>	MORNING TEA

## Session 10: Food Analysis Into the Future

**Chair: Proum Sorya**

### **Suggested topics:**

- *Emerging COCs (Chemicals of Concern), POPs (Persistent Organic Pollutants), PFOA and PFOS, Genetically Modified Foods (GMOs);*
- *Environmental microbiology and emerging pathogens;*
- *Food packaging and pharmaceuticals in our environment; and*
- *Speciated metals and speciated hydrocarbons.*

<b>11:00 am - 11:30 pm</b>	Delegate Paper: "Speciation of Chromium (Cr) in the Environmental and Food samples by Spectrophotometry", <b>Adam Wiryawan</b> , Department of Chemistry, Faculty of Sciences, Brawijaya University, Indonesia
<b>11:30 am - 12:00 pm</b>	Delegate Paper: "Persistent Organic Pollutants in Freshwater and Marine Fish Species of Bangladesh", <b>Mohammad Shoeb</b> , Department of Chemistry, University of Dhaka, Bangladesh
<b>12:00 pm - 2:00 pm</b>	LUNCH and CLOSE
<b>2:00 pm - 3:00 pm</b>	APFAN Meeting (attendance optional)

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