

# AOAC INTERNATIONAL

*Now and on the Horizon*

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*Deputy Executive Director & Chief Science Officer*

# AOAC INTERNATIONAL: “The Great Collaboration”

## 136 Years of Scientific Excellence

- 1884: The Association of Official Agricultural Chemists
- Harvey Washington Wiley
- A collaboration between Federal and state departments of agriculture through the USDA Bureau of Chemistry.
- Standards for fertilizer methods used by US state laboratories
- Our Legal Name:
- **AOAC INTERNATIONAL**
- 2020: The Association of Official Analytical Collaboration

## VISION

*Global confidence in consensus based analytical solutions for food safety, food integrity, and public health.*

## MISSION

To ensure the safety and integrity of foods and other products that impact public health by convening government, industry, and academia to develop and validate standards, methods and technologies.

## STRATEGIC GOALS

Analytical Excellence,  
Engagement, Partnerships,  
Core Programs, Sustainability,  
and Governance

## What We Provide to Our Stakeholders

### *Official Methods of Analysis of AOAC INTERNATIONAL*

- Compendium of >3,000 methods
- 18 standard guidances for laboratories and method authors
- 123 consensus standard method performance requirements

- Performance Tested Method Certification
- Official Methods of Analysis Program
- Laboratory Proficiency Testing Program
- ALACC Guide
- *Journal of AOAC INTERNATIONAL*
- Midyear and Annual Meetings

# AOAC Official Methods and Federal Collaborations

## US Food & Drug Administration

- CFR *Title 21, Chapter I, Subchapter A, Part 2, Subpart A, §2.19 Methods of Analysis:*

*Where the method of analysis is not prescribed in a regulation, it is the policy of the Food and Drug Administration in its enforcement programs to utilize the methods of analysis of the AOAC INTERNATIONAL...*

- Standard for Best Practices for Microbiological Methodology

## US National Institutes of Health

- Methods for Dietary Supplements

## US Department of Homeland Security

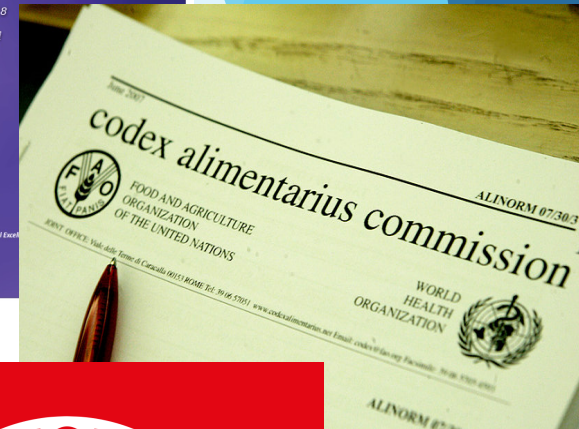
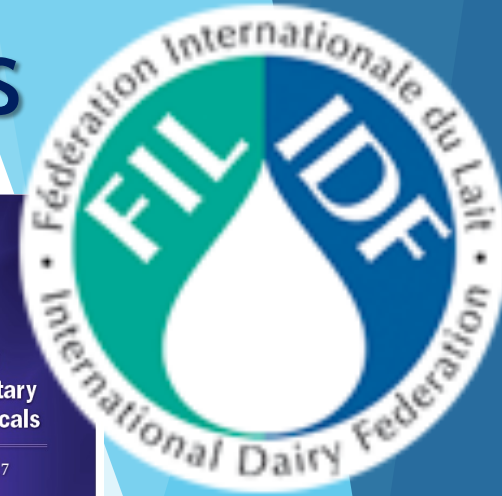
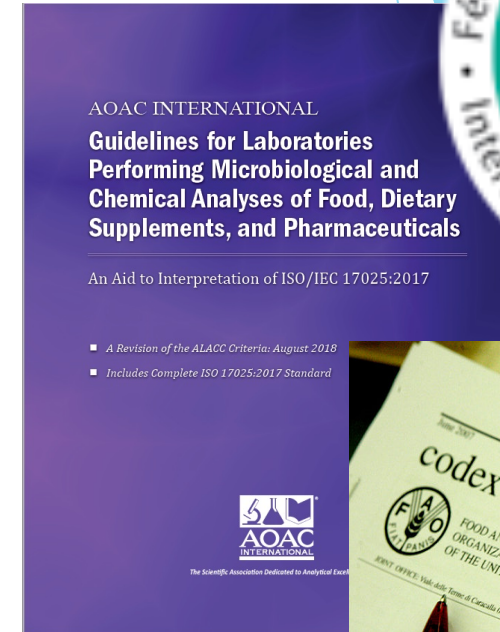
- Standard method performance requirements for biothreat agents

## US Department of Defense

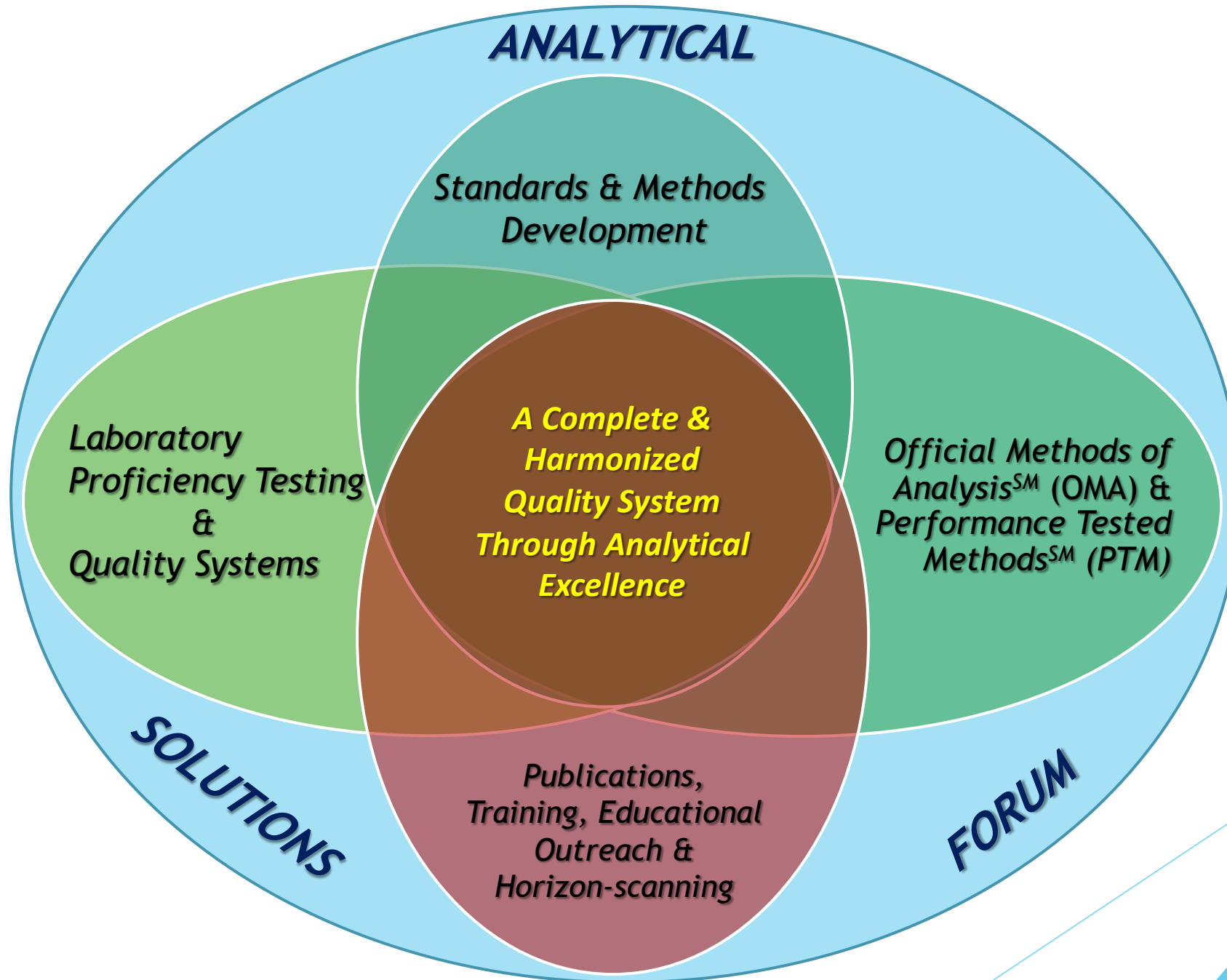
- Standards for biothreat agents, validation guidance, recommendation and best practice documents.

# International Harmonization & Consensus

- ▶ AOAC and ISO signed an agreement to participate in each others standards activities on a case by case basis for ISO TC 34 (food products) and its subcommittees.
- ▶ International Dairy Federation (IDF) is engaged through ISO/TC 34/SC 5
- ▶ Methods jointly submitted to CODEX process by AOAC, ISO, and IDF for Type II (dispute resolution) status
- ▶ 15 AOAC Final Action Official Methods
- ▶ Engaged in review of methods reference in Codex STAN 234 - Methods of Analysis and Sampling
- ▶ AOAC Laboratory Accreditation Committee Criteria Guidance on interpreting ISO 17025
- ▶ AOAC is the ANSI-accredited US TAG to ISO/TC 34 (Food products)



# Program Integration



# The Analytical Solutions Forum

- *“Idea Incubator”*
- Horizon Scanning,
- Potential for stakeholder-sponsored projects and programs,
  - *Biostimulants,*
  - *Microplastics,*
  - *Botanicals,*
  - *Authenticity and Genomic Applications,*
  - *Glyphosate,*
  - *Masked mycotoxins,*
  - *Natural colors,*
  - *Gluten and Food Allergens.*

# Deliverables

## Microbiology in Cannabis

- Standards and methods for  
Aspergillus, STEC, Salmonella, Total Yeasts & Molds.

## Chemical Contaminants in Cannabis

- Standards and methods for residual solvents in cannabis, heavy metals, pesticides, & mycotoxins.

## Cannabinoids in Consumables

- Standards and methods for THC in hemp plant materials; cannabinoids in cannabis plant materials.
- Recommendation for reporting total THC (THC + THCA).
- Recommendation on dry weight.
- Standardized.

### AOAC CASP OBJECTIVES

- Facilitate a forum where the science of cannabis and hemp analysis can be discussed
- Provide a home for the development and maintenance of cannabis standards and methods.



## USDA / Agricultural Marketing Service

### U.S. Domestic Hemp Production Program

#### ***Testing guidelines for Identifying Delta-9 Tetrahydrocannabinol (THC) Concentration in Hemp***

- Laboratories shall use appropriate, validated methods . . . .
- Laboratories shall meet the AOAC INTERNATIONAL standard method performance requirements (SMPR) for selecting an appropriate method.



# CASP and the AOAC Laboratory Proficiency Testing Program: *Identifying and Filling a Need*

- ▶ PT - Required to Trust Data
- ▶ An Independent Measure of Quality
- ▶ Launch of Proficiency Testing CASP Working Group
  - ▶ Program Being Designed by Experts
  - ▶ Program Will Meet Your Accreditation Requirements
  - ▶ A Reliable Program
  - ▶ More Information Coming Soon!

# Learn more about AOAC INTERNATIONAL's integrated science programs at...

➤ [www.aoac.org](http://www.aoac.org)

➤ Contact us:

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