Background:
The Analytical International Methods and Standards (AIMS) program was established to, “...provide standards for microbial pathogen detection that will incorporate novel and emerging technologies...for projects that will focus on delivering analytical solutions for current capability gaps in laboratory testing, responding to emerging microbial threats to food safety, and developing standards for the use of cutting-edge diagnostic technologies and applications”.

Representatives from method development, independent laboratory, and the water treatment industries have identified gaps using currently available cultural techniques, notably: long time to result (7-14+ days), room for subjective interpretation, and variable quantitative accuracy for different Legionella spp.

The focus of this project will be to provide a framework for validation of alternative methods in Legionella detection and quantification (i.e., cultural or molecular). This work will also expand the reach of AOAC INTERNATIONAL into the water industry. As such, success of this program may provide a platform for the establishment of a standalone science program focused on microbial and chemical contaminants in water.

Goals:
1. Establish an interdisciplinary Advisory Panel within AIMS focused on Legionella.
2. Convene a Working Group to draft Standard Method Performance Requirements (SMPRs®) for molecular quantification of Legionella.
   - Determine appropriate reference method parameters.
   - Establish success criteria for molecular methods.
   - Allow framework for modern molecular technologies (e.g., multiplex qPCR, ddPCR, etc.).
   - Expertise in molecular techniques (i.e., PCR, qPCR, ddPCR)
   - Expertise in Legionella culture and quantification (i.e., ISO 11731)
   - Commitment to the AOAC INTERNATIONAL standards for method validation
4. Establish ties with other industry stakeholders globally.
   - The American Society for Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE)
   - The American Society for Health Care Engineering (ASHE)
   - American Water Works Association (AWWA)
   - The Water Management Society
   - The United Kingdom Health Security Agency
5. Develop framework for harmonized validation with international method accreditation bodies.
   - AFNOR, MicroVal, NordVal
Seeking Support
The Legionella Working Group will be established under the auspices of AIMS but will be guided by an independent Advisory Panel. This panel will meet at least quarterly to determine the objectives of the working group, review progress, and consider any required directional changes.

Advisory Panel Organizations are eligible to receive AOAC discounts and are highlighted on the AOAC website and program communications.

<table>
<thead>
<tr>
<th>Annual Dues &amp; Benefits</th>
<th>Voting Advisory Panel Member</th>
<th>Method Validation Training Course Discount*</th>
<th>AOAC PTM Application Fee Discount**</th>
<th>AOAC Consulting Services Discount</th>
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<tr>
<td>$10,000</td>
<td>✔</td>
<td>20%</td>
<td>10%</td>
<td>$1,000/year</td>
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</tbody>
</table>

Benefits offered as discounts off retail price for the current year
*Training discount applicable for a maximum of 2 registrations per organization
**PTM discounts may be combined with other RI benefits, up to 5 applications

AP members are at the forefront of establishing the standards used by method developers, and AOAC, so that resulting Performance Tested Methods and Official Methods of Analysis are fully validated and meet the analytical needs of the community. These AOAC adopted reference methods will meet the growing, and evolving needs of the water management industry, by providing data to support effective, scientifically justified methods. Join the Legionella Working Group AP today – your investment will help ensure the best available science drives public health policy and regulation.

Next Steps
Sign up to join the Advisory Panel or to receive more information:

AIMS Legionella Interest Form

Katerina Mastovska, Deputy Executive Director & Chief Science Officer
☎️ kmastovska@aoac.org
📞 +1 (301) 924-7077 Ext. 163

Pam Coleman, Chief Innovation Officer, Science Programs
☎️ pcoleman@aoac.org
📞 +1 (708) 557-8020

Alicia Meiklejohn, Director, Business Development & Governance
☎️ ameiklejohn@aoac.org
📞 +1 (301) 924-7077 Ext. 101