



**Laboratory Methods and Services Committee Report**

January 23, 2013  
 8:00 am – 5:00 pm  
 Albuquerque, New Mexico

**COMMITTEE RECOMMENDATIONS:**

1. There are no committee recommendations for the Board

**BOARD RECOMMENDATIONS:**

1. There are no committee recommendations from the Board

**ASSOCIATION ACTIONS:**

1. The committee requests that the Association provide the committee with a FASS contact to update the committee’s AAFCO webpage. The FASS contact should coordinate with the committee chairs to obtain and post these documents.

Committee Participants:

**The following is a list of committee members and advisors**

Name	Position on committee	Laboratory / Affiliation
Ahmed M. Saber	Member	Ohio Dept. of Ag
Amy Debaker	Member	Wisconsin Dept. of Ag
Terrence Field	Member	Canadian Food Inspection Agency
Kyung-Min Lee	Member	Office of the Texas State Chemist
Dennis McCurdy	Member	FDA/CVM HFV-222
Louise Ogden	Member & QA/QC Working Group	Minnesota Dept of Ag
Tom Phillips	Member & Accreditation Working Group	Maryland Dept of Ag
Aaron Price	Chair & QA/QC Working Group	Canadian Food Inspection Agency
Reggie Roybal	Member	Colorado Dept of Ag
Vicki Siegel	Member & Collab. Check Sample Committee Chair	OISC Purdue University
Brenda Snodgrass	Member & QA/QC Working Group Chair	OK Dept. of Ag. Food & Forestry
Mark Stenske	Member	Michigan Dept of Ag
Nancy Thiex	Co-Chair & Coop Agreement Administrator	Life Member
Sharon Webb	Member	U ok KY Div. Of Reg. Services
Kevin Armbrust	Member	Mississippi State Chemical Laboratory

Jose Rodriguez	Member	Officie of the State Chemist
Mark LeBlanc	Board Liaison	LA dept of Ag, Dept of Ag Chemistry
Marla Luther	Member	FDA/CVM HFV-222
Keith Wegner	APHL Liaison	Colorado Dept of Ag
Teresa Grant	APHL Liaison Alternate & QA/QC Working Group	North Carolina Department of Agriculture and Consumer Services
Jennifer Kemnah	Member	NY Dept of Agriculture and Markets/ Division of Food Safety and Inspection
Robert Sheridan	Member	NY Dept of Agriculture and Markets/ Division of Food Safety and Inspection
Gale Hagood	Member & QA/QC Working Group	Mississippi State chemical Laboratory
Dirk Shoemaker	AFDO Liaison	NE Dept of Ag
Brenda Jackson	Member & QA/QC Working Group	North Carolina Department of Agriculture and Consumer Services
Sarah Snodgrass	Member & Accreditation Working Group	WV Dept of Agriculture
Joshua Arbaugh	Member & Accreditation Working Group	WV Dept of Agriculture
Heidi Hickers	Member & Accreditation Working Group	MT Dept of Agriculture
Kristina McCallum	Member & Accreditation Working Group	Colorado Dept of Ag
Hitelia Castellanos	FDA Liaison	FDA/ORA/OGROP/ORAA/OO/ORS/FFSS HFC-140
Ruiqing Pamboukian	FDA Liaison	FDA/ORA/OGROP/ORAA/ORO/DFS HFC-140
Don Burr	FDA Liaison	FDA/CFSAN/OF/CFSAN/OFS/DFPST/FTB HFS 450
Ravinder Reddy	FDA Liaison	FDA/CFSAN/OF/CFSAN/OFS/DFPST/LPET HFS 450
Tara Doran	FDA Liaison	FDA/ORA/OGROP/ORAA/OO/ORS/FFSS
Lawrence Novotny	Member & Sampling Group	Retired
George Latimer	Member & Sampling Group	Retired
Sarah DeDonder	Member & Accreditation Working Group	Kansas Department of Agriculture
Mark Coleman	Advisor	Eli Lilly and Company
Andy Crawford	Advisor	Consultant
David Fairfield	Advisor	National Grain & Feed Association
Bill Hall	Advisor	Mosaic
Krystyna Mclver	Advisor	AOAC International
Lars Reimann	Advisor	Eurofins Scientific, Inc.
Ken Riter	Advisor	NP Analytical Laboratories
David Dzanis	Advisor	American Pet Products Association
Ed Rod	Advisor	American Pet Products Association
Nancy Cook	Advisor	Del Monte
Pat Tovey	Advisor	Pet Food Institute
Melissa Miller	Advisor	Covance Laboratories
Jeff Horst	Advisor	Agri-King
Tom McKamey	Advisor	Silliker Laboratories

Mark Collison	Advisor	Archer Daniels Midland Company
Dale Hill	Advisor	ADM Alliance Nutrition, Inc.
Alex MacDonald	Advisor	Phibro
Laszlo Torma	Advisor	Pickering Laboratories
Dennis Givens	Advisor & QA/QC Working Group	Cargill Corn Milling
Sanjoy Ganguly	Advisor	North American Biproducts Corp
Christine Atkinson	Advisor	AOCS (American Oil Chemists Society)
Greg Hoffman	Advisor & Sampling Working Group	Pfizer Animal Health
Chuck Ramsey	Advisor & Consultant	Envirostat Inc

Committee Report:

The Minutes from the meeting held on October 2, 2012 in Las Vegas, NV, were approved. It was questioned whether they were posted. Committee members checked the AAFCO website and found meeting minutes from 2012 were missing.

**ACTION:** A Price will contact FASS to see about getting all minutes posted to the website.

Thiex reported that she was in the process of updating the AAFCO Committee roster. People interested in being added to the roster should send a request to Price or Thiex.

**ACTION:** A Price and N Thiex to collect names of new committee members and share list at next meeting.

**Collaborative Studies:**

**Starch** - Thiex reported on behalf of Mary Beth Hall that familiarization samples had been shipped and data are coming back.

**ACTION:** none.

**Fatty Acids** - Gina Clapper reported that the study was complete and that she had just been given results. These results will be compiled shortly and will be presented at the next meeting.

**ACTION:** G. Clapper to present final statistics of collaborative study at August 2013 meeting.

**Working Groups:**

**Tylosin** – Coleman (Chair) reported that the focus of the group was on transition methodology from the current microbiological method to a HPLC based method. Many methods reported in literature had been tried but with poor outcomes. TX uses a LC-MS/MS based method, but is currently not interested in taking this method through a general validation program. Also discouraging this approach is FDA’s negative position regarding HPLC-MS/MS based methods for compliance testing of fortified feeds. Colorado Dept of Ag will work on a method together with Aaron, Susie Dai, and John Uhr. Coleman also



FINAL: June 21, 2013

brought up FDA Guidance document 135 which specifies that methods must have CV's of <5% in feeds fortified at 10 ppm or above. Issue whether this criterion is reasonable – question if any HPLC-MS/MS method has this performance in a feed matrix at that concentration range.

**ACTION:** set-up a conference call with committee chairs and working group to go over next steps.

**Vitamin A** - Riter (Chair) reported the group was reviewing 3 methods. He asked if anyone has experience with AOAC 2001.13. It was suggested to include processed cheese slices (the retinol content in this matrix is uniformly distributed and relatively stable) and a decoquinate fortified feed (decoquinate is an interference within at least one of the targeted methods) among the comparison samples. Heidi Hickey, Tom Phillips, Lisa Ruiz and Doug Petty joined the working group.

**ACTION:** set-up a conference call with committee chairs and working group to go over next steps.

**Vitamin E** - Collison (Chair) has stepped down. Office of the Indiana State Chemist will provide new chair.

**ACTION:** V. Siegel to provide a new chair for this method working group.

**Sugars Methodologies** - Horst reported that not a lot had changed. Mary Beth Hall, Jon Devries, Garreth Zielinski and Horst are all evaluating methods. Siegel reported that the AAFCO Check Sample Program has added test codes for sugars and encouraged people to report their results.

**ACTION:** set-up a conference call with committee chairs and working group to go over next steps.

Follow-up: In June 2013 the above action was completed. J. Horst had a conference call with A. Price and N. Thiex to discuss what the appropriate next steps for this work should be. J. Horst will prepare a number of reference standards and feeds containing sugars and send these out to various laboratories for sugars testing. This will give the committee a good idea of the accuracy and precision of different methodologies and equipment and help determine a suitable method for collaborative study.

**Mycotoxins** - Siegel (Chair) reported that the group had no recent activity. The group is reviewing 3 multi-analyte methods (Romer, NY Dept of Ag, CFIA). Collaborative study is a challenge if incurred residues are required (finding and preparing samples EXPENSIVE). However, as a result of the FDA Grant some money has become available for this purpose. The reasoning behind the limits included in the Method Needs Statement was questioned. Reimann to locate the summary document addressing this issue. The group reviewed performance data presented by A Price on CFIA's multi-analyte mycotoxin method. It did not appear to meet some of the LOQ requirements of the Needs Statement (ie for AFLA).

**ACTION:** set-up a conference call with committee chairs and working group to go over next steps.

### **Method Needs Statements/SLVs:**

Price (Chair) reviewed the status of the Methods Needs Statements (MNS). In the past Price undertook a survey every two years to assess method needs but in light of the many MNS on file awaiting volunteers, it was agreed to cancel the survey for 2014. Siegel volunteered to complete the Carbadox/Pyrantel tartrate



FINAL: June 21, 2013

SLV . NY Dept. of Ag presented a draft of the pesticide residue MNS statement. It was edited by the committee and will continue to be worked on by the B Sheridan and his colleagues at NY Dept. of Ag. A final version is anticipated for the next meeting.

**ACTION:** Staff from NY Dept. of Ag. to submit revision of method needs statement to Price for review at next meeting.

### **FDA Grant Activities:**

N. Thiex reviewed the status of the different projects associated with the FDA grant:

1. QA/QC workgroup chaired by Brenda Snodgrass is focused on updating the AAFCO Guidelines for Feed Laboratories. She outlined the history and goals if the workgroup. It operates through face-to-face meetings and monthly conference calls.
2. AAFCO Check Sample workgroup is chaired by Siegel. Group will focus on getting the program ISO accredited as well as expanding the analytes monitored to include mycotoxins and heavy metals. Will be working on getting samples with incurred residues included in the program that labs can use to demonstrate proficiency.
3. Sampling and Sample Handling workgroup is chaired by Chuck Ramsey
4. Food/Feed Lab Accreditation support Group has Tom Phillips as a member of the group. He offered to provide updates as to the activities of the group.
5. Accreditation Training workgroup focuses on developing training programs helpful to labs seeking ISO Accreditation. Most of the members of the QA/QC workgroup have volunteered for this committee as well.

**ACTION:** Committee members are to meet regularly and work to the specific objectives of each workgroup. Workgroups will provide updates to the committee at the Annual meeting in August 2013.

### **Other Business:**

AAFCO Guidelines for Analytical Methods - Lawrence Novotny summarized the status of the project. The format is still up for discussion. (Secretary's note: In a later meeting the work group agreed to focus on the methods used by state labs. Crawford would compile a method comparison across multiple matrices of the methods used by State Labs based on lab codes provided by Siegel).

**ACTION:** A. Crawford to compile a method comparison across multiple matrices and methods.

Phosphorus methodologies – Discussion of method bias when analyzing samples containing mineral phosphates. Hall and Crawford reviewed the data from the recent analysis of a phosphate supplement. Hall commented that phosphorus by ICP was challenging and that ashing of samples can lead to the formation of acid resistant phosphates.

**ACTION:** none.



FINAL: June 21, 2013

ISO Issues – Hall explained that he is Chair of ISO TC143 that deals with fertilizers. He formed a Fertilizer Technical Advisory Group (TAG). Methods submitted so far all have originated from China. His group is planning to run 4 methods through both AOAC and ISO validation processes.

TC34 sub-committee (SC) 10 deals with feeds and is administered by Iran (US is neither a participant nor an observer). For AAFCO to become actively involved (forming a TAG) may require expenditures of \$50,000-\$150,000 over three years. The actual amount required depends mainly on how much travel would be undertaken to attend meetings mostly outside North America.

**ACTION:** none.

MidWest AOAC Meeting – meeting will be chaired by Garreth Zielinski w/ Covance and is scheduled for June 4-6 in conjunction with the National Forage Testing Association meeting. Silliker will sponsor the 2014 meeting in Illinois (date to be set).

**ACTION:** none.

Information Forum Regarding Methods – Reimann reviewed the activities associated with the recent interest in testing chicken jerky and other dried meat ingredients for drug residues. It demonstrated how quickly an issue could surface and the need for a quick response. He mentioned that having a forum where people could exchange information about methods and standards would be helpful.

**ACTION:** V. Siegel to check with FASS if we could form an “Aglab equivalent”.