

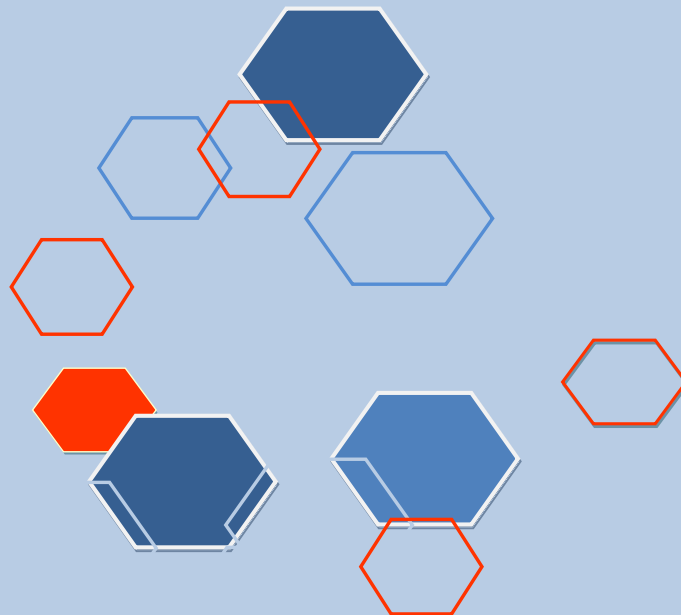


*The Scientific Association Dedicated to Analytical Excellence®*

# AOAC INTERNATIONAL

## Official Methods Board (OMB)

### New Member Information



**Wednesday, August 10, 2016**

AOAC INTERNATIONAL  
2275 Research Blvd., Suite 300  
Rockville, MD, 20850  
UNITED STATES  
[dboyd@aoac.org](mailto:dboyd@aoac.org)  
301.924.7077 x126



# Amy N. Brown

## Contact Information

Division of Food Safety, Chemical Residue Laboratory  
Florida Department of Agriculture and Consumer Services  
3125 Conner Blvd. Lab 3  
Tallahassee, Florida 32399  
(850) 617-7510  
[Amy.Brown@FreshFromFlorida.com](mailto:Amy.Brown@FreshFromFlorida.com)

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## EMPLOYMENT

**Environmental Manager** **June 2005-Present**  
DEPT. OF AGRICULTURE, DIV. OF FOOD SAFETY, CHEMICAL RESIDUE LABORATORY TALLAHASSEE, FL

Assist the Bureau Chief of the Chemical Residue Laboratory by acting as technical manager of the State Pesticide Residue Regulatory Program which is responsible for ensuring a safe food supply under Florida Statue 500. This includes assuring that violations are identified accurately and appropriate regulatory actions are taken in a timely manner. Manages deliverables for all pesticide regulatory actions including preparation and maintenance of records (e-mail and phone instructions, audit trail of these communications, summary tables, timely updates to Bureau, Division, Department and FDA managers, etc.) in a manner that assures all affected parties are accurately informed.

Assists the Bureau Chief with special projects such as Deep Horizon Oil spill analysis of seafood samples for PAHs and Dispersants.

Supervises chemists assigned to the Sample Preparation section and the Standard's section, including leave approval, performance counseling and appraisal.

Manages the daily operations and sample analysis schedule for the Laboratory, including sample collection, receipt, preparation, extractions and data entry. Conducts technical review of completed results. Reviews and approves all instrumental data in support of the State Pesticide Residue Regulatory Program. Analysis instruments include GC-Triple Quadrupole (GC-MS/MS), LC-Triple Quadrupole (LC-MS/MS) and LC-High Resolution Mass Spectrometry (LC/HRMS). Ensures that the laboratory adheres to strict ISO 17025 procedures to uphold accreditation.

Working knowledge of QA and ISO 17025 principles and how they relate to trace level analysis, and assurance that the laboratory adheres to strict laboratory QA ISO 17025 procedures. The lab received accreditation from the A2LA ISO/IEC 17025:2005 to perform Multiresidue Screening of Pesticide Data Program Samples and Multiresidue Pesticides in State Program Fruits and Vegetables (A2LA certificate # 2534.03).

Acts as the laboratory database administrator. This includes updating and maintaining the laboratory information management system (LIMS).

**Chemist Administrator** **November 2002-June 2005**  
DEPT. OF AGRICULTURE, DIV. OF FOOD SAFETY, CHEMICAL RESIDUE LABORATORY TALLAHASSEE, FL

Assists the Quality Assurance Officer with the development and implementation of Quality Assurance/Quality Control procedures in the Chemical Residue Laboratory.

Supervises chemists assigned to the Quality Assurance/Methods Development Section, including leave approval, performance counseling and appraisal.

Performs formal Quality Assurance reviews for all USDA Pesticide Data Program (PDP) samples and is responsible for transmitting the laboratory results to PDP headquarters.

Administers and/or coordinates Method Development and Method Validation projects. Assembles method validation data and prepares appropriate forms and summaries. Submits validation data to the USDA Pesticide Data Program (PDP). Provides training in methodology to laboratory personnel.

**Chemist III**

**March 2001-November 2002**

DEPT. OF AGRICULTURE, DIV. OF FOOD SAFETY, CHEMICAL RESIDUE LABORATORY TALLAHASSEE, FL

Assists the Quality Assurance Officer with the development and implementation of Quality Assurance/Quality Control procedures in the Chemical Residue Laboratory.

Maintains the analytical standard inventory utilizing an Access data base. Ensures appropriate neat pesticides are ordered and available.

Operates and maintains instrumentation for the QA/Methods Development Sub-section. Performs routine maintenance of gas chromatograph and Liquid chromatograph instrumentation. Evaluates new instrumentation as part of methods development

Conducts method development work using a variety of preparative, GC, and LC techniques in support of other laboratory sections. Performs method validation for new methods. Provides training in methodology to laboratory personnel.

**Chemist II**

**June 1999-March 2001**

DEPT. OF AGRICULTURE, DIV. OF FOOD SAFETY, CHEMICAL RESIDUE LABORATORY TALLAHASSEE, FL

Prepares analytical standard solutions including stock solutions, working concentrations, various mixed standards and all needed dilutions from neat pesticides for the Chemical Residue Laboratory.

Maintains the analytical standard inventory utilizing an Access data base. Ensures appropriate neat pesticides are ordered and available. Responsible for distribution of all pesticide standards to all subsections including the Winter Haven Laboratory.

Operates and maintains instrumentation for the QA/Methods Development Sub-section

Assists with method validation and with the development of new and improved analytical methods.

**Chemist I**

**January 1998- June 1999**

DEPT. OF AGRICULTURE, DIV. OF FOOD SAFETY, CHEMICAL RESIDUE LABORATORY TALLAHASSEE, FL

Prepares analytical standard solutions including stock solutions, working concentrations, various mixed standards and all needed dilutions from neat pesticides for the Chemical Residue Laboratory.

Maintains the analytical standard inventory. Ensures appropriate neat pesticides are ordered and available. Responsible for distribution of all pesticide standards to all subsections including the Winter Haven Laboratory.

Operates and maintains instrumentation for the QA/Methods Development Sub-section.

**Lab Technician II**

STATE OF FLORIDA, BUREAU OF PETROLEUM

**March 1997- January 1998**

TALLAHASSEE, FL

Analyzed gasoline's octane by testing the gasoline in the Bureau of Petroleum on research and motor Waukesha engines following ASTM procedures. Utilized infrared spectroscopy to analyze the octane content. Prepared gasoline standard and reference fuels. Prepared octane results utilizing Lotus 123 and Microsoft Excel. Assembled octane reports.

Assisted in distillation lab to determine boiling points of gasoline utilizing manual stills, automatic stills and gas chromatograph following ASTM procedures. Used Chem Station and Simdis to generate data. Assembled distillation reports.

Assisted in diesel lab analyzing sulfur, viscosity and flash points of diesel fuel following ASTM procedures.

Assisted in shipping and receiving, sample preparation and sample distribution.

Performed monthly quality assurance checks of equipment by testing diesel fuels and gasoline to ensure precision and accuracy.

**Clerical Assistant II**

CITY OF TALLAHASSEE, DEPT. OF GENERAL SERVICES, ADMINISTRATION

**October 1996-March 1997**

TALLAHASSEE, FL

Assisted the Department Director, Administrative Supervisor and the Executive Secretary in the office by answering phones, scheduling meetings, maintaining filing system and typing correspondence utilizing Microsoft Word.

Responsible for the organizing, writing, editing and distribution of the department monthly newsletter.

**Lab Assistant**

STATE OF FLORIDA, FLORIDA DEPARTMENT OF LAW ENFORCEMENT

**June 1996- October 1996**

TALLAHASSEE, FL

Worked in the Chemistry Laboratory assisting the Crime Lab Analyst in the analysis of suspected illegal drugs. Analysis included various color tests, solubility tests, use of microscope and use of the gas chromatograph.

Collated all test results and chromatographic data. Ensured data was with appropriate evidence package.

**Clerical Assistant III**

CITY OF TALLAHASSEE, DEPT. OF GENERAL SERVICES, MAINTENANCE DIVISION

**December 1990-August 1995**

TALLAHASSEE, FL

Scheduled conference rooms and pool cars. Maintained filing system. Assembled plans, typed memos and letters utilizing Microsoft Word.

Processed purchase orders for the division, answered telephones, greeted visitors, updated I.D. badges and monitored parking gate.

Received work order requests and assigned the duties to the custodial workers or maintenance repair workers.

Acted as furniture liaison for City hall, ordering furniture, receiving furniture and designing work spaces.

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## EDUCATION

<i>Major:</i>	<b>Bachelors of Science Degree</b> FLORIDA STATE UNIVERSITY Chemistry, A.C.S. Certified Degree	<b>December 1997</b> TALLAHASSEE, FL
<i>Activities:</i>	Assisted in the research lab in the Florida State University Physics Department running crystalline surface experiments by way of Helium Atom Scattering (HAS), Low Energy Electron Diffraction (LEED), and Auger Electron Spectroscopy. Also assisted in the design of a UHV Evaporator used in Thin-Film Deposition.	
<i>Certification:</i>	<b>Certified Public Management</b> FLORIDA STATE UNIVERSITY Certified Public Manager (CPM)	<b>May 2005</b> TALLAHASSEE, FL
<i>Certification:</i>	<b>Society of Government Meeting Professionals</b> GRADUATE SCHOOL, USDA Certified Government Meeting Professional (CGMP)	<b>May 2009</b>

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## PROFESSIONAL MEMBERSHIPS AND COMMITTEES

AOAC International  
Member, 2010 – present  
Pesticide Expert Review Panelist

Southern USA Regional Section of AOAC International  
President, 2012-2013  
President elect, 2011-2012  
Secretary, 2010-2011  
Executive Committee Member, 2008 - present

Florida Capital Chapter of The Society of Government Meeting Professionals  
President, 2009-2013  
Vice President, 2008-2009  
Member, 2006 - present

Planning Committee, North American Chemical Residue Workshop (Formally Florida Pesticide Residue Workshop), Planning Committee, 1999 – present

## AWARDS

Davis Productivity Award Winner 2009  
Citrus Method Development Team of the Chemical Residue Laboratories

AOAC International Expert Review Panel Member of the Year 2014-2015  
Expert Review Panel for Pesticide Residues

Anant Jain Founders Award 2015  
Southern USA Regional Section of AOAC International

Doug Hite Honorarium 2016  
Southern USA Regional Section of AOAC International

## PUBLICATIONS

Brown, et.al., JAOAC, 2011; 94(3): 931-941, "Analysis of Pesticides Residues in Fresh Produce Using Buffered Acetonitrile Extraction and Aminopropyl Cleanup with GC/Triple Quad MS, LC/Triple Quad MS, GC Ion Trap MS, and GC with a Halogen-Specific Detector"

Schenck, Brown, Podhorniak, Parker, Reliford and Wong, JAOAC, 2008; 91(2): 422-438, "A Rapid Multiresidue Method for Determination of Pesticides in Fruits and Vegetables by Using Acetonitrile Extraction/Partitioning and Solid Phase Extraction Column Cleanup"

Schenck et.al, FDA LIB #4442, "Two Modified QuEChERS Methods for the Multiresidue Determination of Pesticides in Produce Samples: An Interlaboratory Study"

Schenck et.al, FDA LIB #4390, "Multiresidue Analysis of Pesticides in Fruits and Vegetables Using a Modified QuEChERS method"

**Doug Hite**  
**President**  
**ICD Associates**  
**Franklin, TN**  
**615-491-8600**  
**dhite420@comcast.net**

**6/30/2016**

To Whom It May Concern,

I am writing to recommend Amy Brown for a position on the AOAC International Official Methods Board (OMB). She would make an outstanding addition to the AOACI Board.

I have known Amy for over ten years, and having myself served on the OMB for several years and a nine year member of the AOACI Board of Directors, know that she has the qualifications that are needed to serve on the OMB.

Amy is a five year member of AOAC INTERNATIONAL and serves on their Official Methods of Analysis Expert Review Panel for Pesticide Residues. Her Expert Review Panel also won "Expert Review Panel of the Year" for 2014-2015.

She is a past President of the Southern Section of AOAC INTERNATIONAL and has been active in the section for over nine years. She received the Anant Jain Founders award in 2015 for her dedication to the Section. In 2016 Amy received the Doug Hite Honorarium from the Southern Section for her leadership role in the Section and her work with AOAC International.

Amy has excellent analytical skills that have allowed her to master complex technical procedures and has exhibited this by her technical presentations at professional meetings. She works easily on both team focused projects and on an individual basis. She is energetic, hardworking and has a great personality which has served her well with team oriented goals. Amy is also very flexible and eager to take on new challenges.

I am convinced Amy will be as valuable an asset to the OMB as she has been to the Expert Review Panel and to the Southern Section of AOAC International.

Sincerely,

**Doug Hite**



To Whom It May Concern:

6-28-2016

It is my great pleasure and honor to supply this letter of recommendation on behalf of Amy N. Brown. I have known and worked with Amy on many projects for over fifteen years. She has always been a pleasure to work with and always willing to take on the difficult jobs, tackling all problems with dedication and a smile.

Besides being a joy to work with, Amy is a take-charge person who is able to handle any work load with precision and ease. Over the years we have worked together or collaborated on many different Chemical Residue Projects. We have also worked together for many years now to support and advance the Southern Section of the AOAC as well as the North American Chemical Residue Workshop.

Amy is highly skilled in the field of Chemical Residue extraction and detection. She is the first person I call when I need help with a Chemical Residue Method or have a question related to Pesticide Residue. She has impressive IT skills as well.

Her expertise in Chemical Residue Methodology and Research would be a great asset to the AOAC International. I would highly recommend her to be a part of and on the AOAC official methods board (OMB).

Sincerely,

*Sherry T. Garris*

Sherry T. Garris, Supervisor

Chemical Residue Laboratory

South Carolina Department of Agriculture

(803) 737-9706

sgarris@scda.sc.gov.

DIVISION OF FOOD SAFETY  
BUREAU OF CHEMICAL RESIDUE LABORATORIES  
(850) 617-7500  
(850) 922-9110 FAX



THE CONNER BUILDING  
3125 CONNER BOULEVARD  
TALLAHASSEE, FLORIDA 32399-1650

**FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES**  
**COMMISSIONER ADAM H. PUTNAM**

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If approved, I agree to serve a three-year term as a member of the AOAC International Official Methods Board.

*Amy N. Brown* *6/30/16*  
\_\_\_\_\_  
Amy Brown Date

I agree to support Amy Brown's participation on the AOAC International Official Methods Board.

*Jo Marie Cook* *6/30/2016*  
\_\_\_\_\_  
Jo Marie Cook Date

## EDUCATION

**BS Biology** (Biochemistry) University of Valencia, Spain

**MS Food Science and Engineering** Polytechnic University of Valencia, Spain

## WORK EXPERIENCE

August 2005- Present

**Research Scientist**

**Nestlé Research Center**, Lausanne, Switzerland

**Lead Scientist – Vitamins Team**

- Development and validation of analytical methods for vitamins in foodstuffs
- Highly involved in international officialization projects
- Active member of CEN Working Group on Vitamins and Carotenoids
- Active participation to AOAC SPIFAN activities – Chair of Working Group on vitamin B12

October 99-August 2005

**Research Scientist**

**Nestlé Research Center**, Lausanne, Switzerland

- Development and validation of analytical methods related with amino acids (HPLC, UPLC, AAA, HPAEC-PAD) and proteins (classical Nitrogen determination, SDS-PAGE)
- Assistance to Regional Laboratories in methodology related to amino acids analysis
- Member of CEN Working Group on Vitamins and Carotenoids since 2005

August 97-September 99

**Laboratory Chemist II**

**Nestlé Quality Assurance Laboratory**, Dublin, Ohio

- Review analytical data and provide reports for factory sample release
- Organize and supervise departmental analytical workload
- Train other chemists in analytical methodologies, new software applications and LIMS
- Assure quality of results by assisting with the establishment and maintenance of QA plan.
- Write up, review and provide proper documentation for methods
- Modify methods to solve complex problems
- Perform chemical analyses and determinations on a variety of non-routine samples
- Research and undertake method development for special projects
- Assure equipment is maintained in reliable working order, make repairs within capability

February 96-July 97

**Laboratory Chemist I**

**Nestlé Quality Assurance Laboratory**, Dublin, Ohio

- Perform routine sample analyses per NQAL methods
- Document QA data and report to section manager
- Assure quality of results by following QA plan and Internal Control Plan
- Ensure safety regulations are followed
- Review data and provide initial draft reports
- Resolve analytical methodology problems

April 95-October 95

**Research Laboratory Chemist**

**Nestlé Research Center, Lausanne, Switzerland**

- Develop and optimize methods for a variety of analyses of drug residues in animal products
- Write up draft analytical methods for different antibiotics and matrixes
- Resolve analytical or instrumental problems under minimal supervision
- Conduct literature searches as required to maintain awareness of current publications relating to work area

June 93-June 94

**Research Training Position**

### **Nestlé Research Center, Lausanne Switzerland**

- Develop analytical method for analysis of sulfonamides residues in pork meat and final meat products
- Compare methods and generate technical reports
- Work with higher level chemist to modify and adapt methods to different matrixes

July 89-July 91

### **Research Student**

#### **Microbiology department**

University of Valencia, Spain

- Assisted Ph.D. dissertation research
- Develop project in yeast fermentation and its influence on wine flavor
- Perform wine flavor extraction
- Analyze flavor extract and provide chromatography results

### **SKILLS**

Highly knowledgeable with HPLC technique, instrumentation and software packages

Quick study and strong desire for knowledge

Good interpersonal skills

Experienced and productive in a team as well as independent work environment

### **LANGUAGES**

Spanish, mother tongue

English, speak, read and write

French, speak, read and write

Catalán, speak and read

German, basic knowledge

### **PUBLICATIONS**

- J.J. Mateo, M. Jiménez, J.V. Gil, E. Campos, T. Huerta, A. Pastor, "Análisis de la fracción volátil de vinos de la variedad de uva Monastrell (D.O. Alicante). Puesta a punto del método." *Semana Vitivinícola*, 2313/14,5713-5721.
- J.V. Gil, E. Campos, M. Jiménez, T. Huerta, J.J. Mateo. "Efectos de la congelación sobre la población levaduriforme en mosto de uva" *Revista Española de Ciencia y Tecnología de Alimentos* 1992,32(2) pp. 213-219
- F. Fenaille, E. Campos Giménez, P.A. Guy, C. Schmitt, F. Morgan, "Monitoring of  $\beta$ -lactoglobulin dry-state glycation using various analytical techniques". *Analytical Biochemistry* 320 (2003) 144-148
- Campos Giménez, E., Spack, L., Meyer, L., Perrin, C. & Acheson-Shalom, R. Measurement uncertainty of the caffeine determination in soluble coffee by HPLC. *Mitteilungen aus Lebensmitteluntersuchung und Hygiene* **95**, 240-250 (2004).
- Spack, L., Royer, D., Campos Giménez, E., Acheson-Shalom, R. & Stadler, R. Measurement uncertainty of chloramphenicol in food products by LC-MS/MS. *Mitteilungen aus Lebensmitteluntersuchung und Hygiene* **95**, 223-239 (2004).
- E. Campos Giménez, T. Bénet, L. Spack. The uncertainty in the calculation of the amount of blocked and reactive lysine in milk products, as determined by the furosine method. *Accred. Qual. Assur.* **9**, 605-614 (2004)

- S. Populaire, E. Campos Giménez. Use of validation data for fast and simple estimation of measurement uncertainty in Liquid Chromatography methods. *Journal of Liquid Chromatography and Related Technologies*, 28, 1-9 (2005)
- E. Campos Giménez, S. Populaire. A simplified approach to the estimation of analytical measurement uncertainty. *Accred. Qual. Assur.* Jan 2006, 1-9
- K. A. Cooper, E. Campos Giménez, D. Jiménez Alvarez, K. Nagy, J. L. Donovan & G. Williamson. Rapid Reversed Phase-Ultra Performance Liquid Chromatography Analysis of the Major Cocoa Polyphenols and Inter-relationships of their Concentrations in Chocolate *J. Agric. Food Chem.*; 2007; 55(8) pp 2841 – 2847
- K. A. Cooper, E. Campos Giménez, D. Jiménez Alvarez, K. Nagy, J. L. Donovan & G. Williamson Predictive relationship between polyphenol and non-fat cocoa solids content of chocolate *J. Agric. Food Chem.* , 56, 260-265
- E. Campos Giménez, P. Fontannaz, M.J. Trisconi, T. Kilinc, C. Gimenez, P. Andrieux Determination of vitamin B12 in food products by LC-UV with immunoaffinity extraction. *Single Laboratory Validation J. AOAC Int.*; 2008, 91 (4), 786-793
- P. Andrieux\*, T. Kilinc, C. Perrin, and E. Campos Giménez Simultaneous determination of free carnitine and total choline by liquid chromatography-mass spectrometry in infant formula and healthcare products: *Single Laboratory Validation J. AOAC Int.*; 2008, 91 (4), 777-785
- E. Campos Giménez, M.J. Trisconi, T. Kilinc, P. Andrieux Optimisation and validation of a LC-FLD method for biotin in infant formula, infant cereals, cocoa-malt beverages and clinical nutrition products *J AOAC Int.* Vol 93 (5) 1494-1502 (2010)
- Lutter, P. Savoy-Perroud, M.C., Campos Giménez, E., Meyer, L., Goldmann, T. Bertholet, M.C., Mottier, P. Desmarchelier, A., Monard, F., Perrin, C., Robert, F., Delatour, T., "Screening and confirmatory methods for the determination of melamine in cow's milk and milk-based powdered infant formula. Validation and proficiency tests of ELISA, HPLC-UV, GC-MS and LC-MS/MS" *Food Control*, vol 22, 903-913 (2011)
- Andrieux, P. Fontannaz, P., Kilinc, T, E. Campos Giménez « Pantothenic acid (vitamin B5) in fortified foods. A comparison between a novel UPLC-MS/MS method and classical microbiological assay » *J. AOAC Int*, Vol 95 (1) (2012)
- M.J. Trisconi, E. Campos Giménez, G. Jaudzems, D. Dowell "Determination of Vitamin A in Infant Formula and Adult Nutritionals by UPLC-UV: First Action 2011.07" *J. AOAC Int.* Vol. 95 (2) (2012)
- E. Campos Giménez, P. Fontannaz, M.J. Trisconi, T. Kilinc, C. Gimenez, P. Andrieux, M. Nelson, « Determination of Vitamin B12 in Infant Formula and Adult Nutritionals by Liquid Chromatography/UV Detection with Immunoaffinity Extraction : First Action 2011.08 » *J. AOAC Int.* Vol. 95 (2) (2012)



Donald L. Gilliland, PhD  
Abbott Nutrition  
3300 Stelzer Rd  
Columbus, OH 43219  
July 22, 2016

Shauna Roman, PhD  
Chair, AOAC Official Methods Board

Dear Shauna:

I would like to recommend Ms. Esther Campos-Giménez as a member of the AOAC Official Methods Board (OMB).

Esther has been active in various roles within AOAC including AOAC Stakeholder Panels on Infant Formula and Adult Nutritionals (SPIFAN) and Strategic Food Analytical Methods (SPSFAM). She has also been a valuable member to the SPIFAN Expert Review Panel (ERP) as well as serving as SPIFAN Working Group Chair for vitamin B<sub>12</sub>. Her technical contributions have been significant in proposing candidate SPIFAN First Action Methods as well as supporting numerous Multi-Laboratory studies toward promoting nutrient methods for consideration as AOAC Final Action methods. She also serves as a member of the Steering and Scientific Committee for the International Vitamin Conference. In these and other activities, Esther has become an increasingly trusted voice offering significant technical contributions during discussions of candidate nutrient methods within a number of scientific communities within AOAC and beyond.

On a personal note, I sincerely appreciate Esther's ability to interact candidly, comfortably and competently within diverse expert groups. I trust that Esther will be an asset to the OMB and I enthusiastically recommend her for membership.

Please feel free to contact me should any additional information be needed.

Sincerely,

A handwritten signature in black ink, appearing to read 'D. Gilliland', followed by the date '7/22/2016' written in a similar cursive style.

Donald L. Gilliland, PhD

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August 15, 2016.

To: Dr. Shauna Roman, chair AOAC INTERNATIONAL Official Methods Board.

From: Dr. Erik J.M. Konings.

Dear Shauna,

Via this letter I would like to recommend Dr. Esther Campos-Giménez as a member of the AOAC INTERNATIONAL Official Methods Board.

In the past years Esther has participated to the SPIFAN Expert Review Panel with sound contributions in the area of nutrient testing in infant formula and adult nutritionals. Her work in the area of method validation and collaborative testing of vitamins and other nutrients is appreciated by SPIFAN ERP members. She successfully chaired one of the nutrient working groups. Her scientific network is great. Esther is member of the Scientific Organizing Committee of the International Vitamin Conference. In addition, she expanded her contribution internationally by participating to ISO, in particular the ISO TC34 Working Group 14 on nutrient testing.

I trust that Esther will be an asset to the Official Member Board.

Please feel free to contact me for any additional information.

Kind regards,



Erik J.M. Konings

Past President of AOAC INTERNATIONAL





## **BIOGRAPHICAL SKETCH**

Wendy A. McMahon

## **EMPLOYMENT HISTORY**

Silliker, Inc.

2004-present, Microbiology Operations Manager, Chicago Heights, Illinois  
Manage ISO 17025 contract microbiology laboratory.

1999-2004, Research Program Manager, South Holland, Illinois  
Managed contract research programs including thermal process validation studies, method validation studies, and proficiency testing programs.

1995-1999, Manager of Laboratory Products, South Holland, Illinois  
Developed and managed proficiency testing programs in food microbiology and chemistry.

1994-1995, Education Supervisor, Homewood, Illinois  
Developed, updated and presented Silliker's technical short courses as well as customized seminars for industry companies.

1992-1994, Technical Education Specialist, Homewood, Illinois  
Updated and presented technical short courses for food industry.

1990-1992, Research Microbiologist, Chicago Heights, Illinois  
Executed food microbiology research projects including shelf-life and challenge studies and AOAC method validations.

## **EDUCATION**

Master of Science, 1999, Food Science, University of Illinois, Urbana-Champaign, IL. Thesis:  
"Evaluation of Cooking Procedures to Destroy *Escherichia coli* O157:H7 in Whole Muscle Cuts of Beef".

Bachelor of Science, 1990. Biology, University of Illinois, Urbana-Champaign, IL.

## **MEMBERSHIPS**

AOAC International and International Association of Food Protection

## **PUBLICATIONS**

McMahon, W.A., A.M. Schultz, R.L. Johnson. 2004. Evaluation of VIDAS® *Salmonella* (SLM) Immunoassay Method with Rappaport-Vassiliadis (RV) Medium for Detection of *Salmonella* in Foods: Collaborative Study. J. AOAC Inter. 87 (4): 867-883.

McMahon, W.A., V.A. Aleo, A.M. Schultz, B.L. Horter, K.G. Lindberg. 2003. 3M™ Petrifilm™ Staph Express Count Plate Method for the Enumeration of *Staphylococcus aureus* in Selected Types of Meat, Seafood, and Poultry: Collaborative Study. J. AOAC Inter. 86 (5): 947-953.

Lepper, W.A., A.M. Schultz, M.S. Curiale, and R.L. Johnson. 2002. Evaluation of VIDAS Immuno-concentration *Salmonella*/VIDAS *Salmonella* Immunoassay Method for Detection of *Salmonella* in Selected Foods: Collaborative Study. J. AOAC Inter. 85 (3): 609-625.

Lepper, W.A., A.M. Schultz, M.S. Curiale, and R.L. Johnson. 2002. *Salmonella* in Selected Foods by VIDAS Immuno-concentration *Salmonella* Plus Selective Plate Method (Hektoen Enteric, Xylose Lysine Desoxycholate, Bismuth Sulfite): Collaborative Study. J. AOAC Inter. 85 (3): 593-608.

Lepper, W.A., A.M. Schultz, M.S. Curiale, and R.L. Johnson. 2002. *Salmonella* in Selected Foods by VIDAS Immuno-concentration *Salmonella* Plus Selective Plate Method (Hektoen Enteric, Bismuth Sulfite, *Salmonella* Identification): Collaborative Study. J. AOAC Inter. 85 (3): 576-592.

Lepper, W.A. 2001. Thermal Validation Studies Reduce Risks. SCOPE Technical Bulletin. 17 (1): 5-7.

Curiale, M.S., W. Lepper, and B. Robison. 1994. Enzyme-linked Immunoassay for Detection of *Listeria monocytogenes* in Dairy Products, Seafoods, and Meats: Collaborative Study. J. AOAC Inter. 77 (6): 1472-1489.

Curiale, M.S., T. Sons, L. Fanning, W. Lepper, D. McIver, S. Garramone, and M. Mozola. 1994. Deoxyribonucleic Acid Hybridization Method for the Detection of *Listeria* in Dairy Products, Seafoods, and Meats: Collaborative Study. J. AOAC Inter. 77 (3): 602-617.

Eckner, K.F., D. McIver, W.A. Lepper, L. Fanning, M.S. Curiale, R.S. Flowers, and B. Robison. 1992. Use of an Elevated Temperature and Novobiocin in a Modified Enzyme-linked Immunosorbant Assay for the Improved Recovery of *Salmonella* from Foods. J. Food Prot. 55 (10): 758-762.

## PRESENTATIONS

2005. IAFP Annual Meeting. Baltimore, Maryland. Validation of the Use of Composite Sampling for the Detection of *Listeria monocytogenes* in a Variety of Food Products. Poster Presentation.

2004. IAFP Annual Meeting. Phoenix, Arizona. Evaluation of VIDAS Staph Enterotoxin II (VIDAS SET 2) Method. Poster Presentation.

2004. IAFP Annual Meeting. Phoenix, Arizona. Validation of Composite Sampling for Detection of *Escherichia coli* O157:H7 in Raw Beef Trims and Raw Ground Beef. Presented by Dr. Ann Marie McNamara.

2004. AOAC Annual Meeting. St. Louis, Missouri. VIDAS® *E. coli* O157 (ECO) and O157:H7 Plate Method Pre-collaborative Study Report: AOAC Performance Tested Method<sup>SM</sup>. Poster Presentation.

2003. IAFP Annual Meeting. New Orleans, Louisiana. Evaluation of Second Generation VIDAS *Listeria monocytogenes* and Automated BAX Methods for Detection of *Listeria monocytogenes* in Ready-to-Eat Meat and Poultry. Presented by Dr. Ann Marie McNamara.

2002. Institute for Thermal Processing Specialists. Symposium on Advances in Extended Shelf-Life. Kissimmee, Florida. Advances in Rapid Microbial Detection. Presentation.

2002. AOAC Annual Meeting. Los Angeles, California. Evaluation of VIDAS® *Salmonella* (SLM) Immunoassay Method with Rappaport-Vassiliadis for Detection of *Salmonella* in Foods: Collaborative Study. Poster Presentation.

2002. International Ice Cream Association. Ice Cream Technology Conference. San Antonio, Texas. Rapid Methods for Pathogen Detection. Presentation.

2001. AOAC Annual Meeting. Kansas City, Missouri. Evaluation of VIDAS® Immuno-concentration *Salmonella* (ICS) / VIDAS *Salmonella* (SLM) Immunoassay Method for Detection of *Salmonella* in Selected Foods: Collaborative Study. Poster Presentation.

2001. AOAC Annual Meeting. Kansas City, Missouri. Evaluation of VIDAS® *Salmonella* (SLM) Immunoassay Method with Rappaport-Vassiliadis for Detection of *Salmonella* in Foods: Precollaborative Study. Poster Presentation.

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2001. IAFP Annual Meeting. Minneapolis, Minnesota. Comparison of Methods for the Isolation of *Escherichia coli* O157:H7 from Ground Beef. Poster Presentation.

2000. AOAC International Annual Meeting. Philadelphia, Pennsylvania. Evaluation of VIDAS<sup>®</sup> Immuno-concentration *Salmonella* (ICS) / VIDAS *Salmonella* (SLM) Immunoassay Method for Detection of *Salmonella* in Selected Foods: Pre-collaborative Study. Poster Presentation.

1994. National Live Stock and Meat Board Demand Strategies/Annual Meeting. Chicago, Illinois. Evaluation of Cooking Procedures to Destroy *E. coli* O157:H7 in Whole Muscle Cuts of Beef. Technical Presentation.

To: AOAC International  
Official Methods Board  
2275 Research Blvd #300  
Rockville, MD 20850

From: W. Evan Chaney, PhD  
Roka Bioscience, Inc.  
10398 Pacific Center Ct.  
San Diego, CA 92130  
(858) 795-0263  
[echaney@rokabio.com](mailto:echaney@rokabio.com)

Dear Members of the AOAC OMA Board,

This letter is to confirm my personal recommendation and support of Ms. Wendy McMahon's election to the OMA Board within the AOAC organization. Ms. McMahon is the General Manager for Silliker's Food Science Center in Crete, IL where, since 1990, she has amassed a plethora of food safety and microbiology related knowledge and experience assisting the food industry in critical areas such as process validation, shelf-life analyses, challenge studies, and analytical method application and validation. Ms. McMahon is particularly qualified to serve on the OMA board for a variety of reasons. Number one, Wendy has managed the largest food microbiology routine testing laboratory within the Merieux Nutriscience's Network of laboratories. As such she is very familiar with industry laboratory workflows and demands, proficiency requirements, and implications of analytical method results to clients. Secondly, Wendy's time at FSC has provided experience in working with numerous, rapid microbiological methods and their evolution in the industry over the years. This first-hand experience and knowledge of the challenges in method application, validation and verification within the industry are unique and necessary for an OMA board member. She has numerous publications, spanning areas such as rapid qualitative and quantitative method validation for the major foodborne bacterial pathogens. Lastly, Wendy has been very active within the AOAC's method committees and became a fellow in 2014. Additionally, she is the current co-chair of the Microbiology Method Expert Review Panel for AOAC's microbiology method validation program.

I have had the privilege of working with Ms. McMahon directly for validation studies associated with my company's products. She is professional, knowledgeable and the work her and her team have provided has been outstanding. On a personal note, Wendy has been an individual I can reach out to and communicate ideas with and learn from. She has assisted me in becoming more familiar with the AOAC organization as well as many of its members.

I highly recommend confirmation of Ms. Wendy McMahon to the OMA Board. I have no doubt she will contribute greatly to the advancement of AOAC and the industry it serves.

Sincerely,



7/18/2016

W. Evan Chaney, PhD  
Director of Customer Applications & Microbiology

July 15, 2016

Dear AOAC Board of Directors,

As Wendy McMahon's direct supervisor at Mérieux NutriSciences, I am recommending her for a member of the Official Methods Board (OMB). My recommendation is based on Ms. McMahon's contribution at Mérieux NutriSciences assessing the safety and quality of foods in addition to the impact she's had in providing science-based solutions to food industry.

This letter also serves as Mérieux NutriSciences' commitment to providing Ms. McMahon the time and resources necessary for her success as a member of OMB.

Please feel free to contact me if you have any questions. We are certainly pleased for this opportunity.

Sincerely,

Pamela Coleman  
Vice President, Research Services

Email: [Pam.Coleman@mxns.com](mailto:Pam.Coleman@mxns.com)  
Phone: 708-557-8020

July 20, 2016

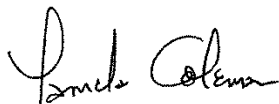
Dear AOAC Board of Directors,

As Wendy McMahon's direct supervisor at Mérieux NutriSciences, I am recommending her for a member of the Official Methods Board (OMB). My recommendation is based on Ms. McMahon's contribution at Mérieux NutriSciences assessing the safety and quality of foods in addition to the impact she's had in providing science-based solutions to food industry. Her extensive work on methods development and validation give her a solid knowledge base that can be applied to the OMB work.

This letter also serves as Mérieux NutriSciences' commitment to providing Ms. McMahon the time and resources necessary for her success as a member of OMB.

Please feel free to contact me if you have any questions. We are certainly pleased for this opportunity.

Sincerely,



Pamela Coleman  
Vice President, Research Services

Email: [Pam.Coleman@mxns.com](mailto:Pam.Coleman@mxns.com)  
Phone: 708-557-8020



## Melissa Meaney Phillips

3907 Joliet Street  
Silver Spring, MD 20906  
Phone: (517) 214-6967  
Email: melmphilips@gmail.com

### EDUCATION

#### Postdoctoral Research Chemist January 2008 – January 2010

Organic Chemical Metrology Group, Analytical Chemistry Division, National Institute of Standards and Technology, Gaithersburg, MD

Project: Determination of Marker Compounds in *Vaccinium* Berries  
Advisor: Dr. Lane C. Sander

#### PhD in Chemistry (Analytical) December 2007

Department of Chemistry, Michigan State University, East Lansing, MI

Project: Analytical Applications of Fluorescence Quenching  
Advisor: Dr. Victoria L. McGuffin

#### MS in Forensic Chemistry October 2007

School of Criminal Justice, Michigan State University, East Lansing, MI

Project: Quantitation of Nitrated Explosives by Fluorescence Quenching following Thin-Layer Chromatography  
Advisors: Dr. Victoria L. McGuffin, Dr. Jay A. Siegel, Dr. Ruth J.H. Waddell

#### BS in Lyman Briggs School – Chemistry, *cum laude* May 2002

Michigan State University, East Lansing, MI

### RESEARCH EXPERIENCE

#### Program Coordinator, Food & Nutrition 2013 – present

Organic Chemical Metrology Group, Chemical Sciences Division, National Institute of Standards and Technology, Gaithersburg, MD

Responsible for development of food Standard Reference Materials (SRMs), including identification and acquisition of materials, coordination of analytical measurements, and documentation of results  
Responsible for oversight of food and nutrition-related research projects

#### Research Chemist 2008 – present

Organic Chemical Measurement Science Group, Chemical Sciences Division, National Institute of Standards and Technology, Gaithersburg, MD

Evaluated various approaches for integration of data from two-dimensional liquid chromatography (LCxLC) for purposes of comparing quantitative data.  
Certified concentrations for water-soluble vitamins in food and dietary supplement SRMs (e.g., infant formula, baby food, whole milk powder, whole egg powder, soy flour, fortified breakfast cereal, soy milk, pet food, protein drink mix) using various extraction techniques and analytical methods such as liquid chromatography with isotope-dilution mass spectrometric detection (LC-ID-MS and LC-ID-MS/MS).  
Developed a method for high-precision determination and certified concentrations of choline and carnitine in food-matrix SRMs using microwave digestion and LC-ID-MS.  
Developed methods for high accuracy and high precision determination of ammonium and phosphate in a fertilizer SRM by ion chromatography with conductivity detection (IC-CD).  
Developed methods and certified concentrations of relevant active and marker compounds in botanical dietary supplement and natural product SRMs (e.g. *Vaccinium* berries, soy, St. John's wort) using various

extraction techniques and analytical methods such as liquid chromatography with absorbance (LC-Abs), gas chromatography with ID-MS, IC-CD, and LC-ID-MS.

Developed methods for separation of biomarker isomers by LC-Abs.

Administered a quality assurance program for dietary supplement laboratories, including selection and shipment of samples, communication with participants, collection and analysis of data, and formulation and distribution of final reports.

Tested and catalogued the performance (e.g. selectivity, number of theoretical plates, pressure) of over 300 liquid chromatography (LC) columns.

### **Research Assistant**

**2002 – 2007**

Department of Chemistry, Michigan State University

Investigated fluorescence quenching-based methods for detection of nitrated explosives by screening fluorophores based on sensitivity and incorporating them into potential field-ready devices for explosives detection.

Utilized the pH-dependent fluorescence of fluorescein for determination of acids in solution and applied this method to analysis of foods and beverages (juices, wines, and vinegars) and drugs of abuse ( $\gamma$ -hydroxybutyric acid or GHB) by HPLC.

Developed a less toxic method for the separation of explosives by thin-layer chromatography and quantitation based on CCD camera imaging.

### **TEACHING EXPERIENCE**

#### **Teaching Assistant**

**2002 – 2007**

Department of Chemistry, Michigan State University

Introductory Physical Chemistry I (Recitation Instructor) Physical chemistry of macroscopic systems including gases, liquids, phase diagrams, classic thermodynamics, chemical equilibrium, kinetics, electrolytic solutions and electrochemistry. Fall 2007. Instructor: Dr. John L. McCracken, enrollment: 280.

Advanced Analytical Chemistry (Teaching Assistant) Basic electronics and data acquisition/analysis, electrochemistry, and statistics for chemists. Fall 2006. Instructors: Dr. Merlin L. Bruening and Dr. Gary J. Blanchard, enrollment: 20.

Advanced Analytical Chemistry (Teaching Assistant) Principles of equilibria and applications in analytical methodology including acid-base, complexation, redox reactions, potentiometry and conductometry, solute partitioning in extraction and chromatography, and kinetic methods of analysis. Fall 2005. Instructor: Dr. Victoria L. McGuffin, enrollment: 12.

Quantitative Analysis (Recitation and Laboratory Instructor) Preparation and quantitative analysis of chemical compounds, including solution descriptions, solution chemistry (acid/base, solubility, complexation, oxidation-reduction reactions), titrimetry, volumetric calculations, statistics, chemical equilibrium, activity, buffers, indicators, gravimetric analysis, equilibrium, introductory spectroscopy, and calibration curves. Summer 2003, 2004, 2005, 2006, 2007. Instructor: Dr. Kathryn G. Severin, enrollment: 30.

Analytical Laboratory (Laboratory Instructor) A project-based capstone course in which students solve analytical chemical problems including chromatographic separations (GCMS or HPLC), spectroscopic (AA or XRF) and electrochemical methods (potentiometry or stripping voltammetry), deformation of a household product using available techniques, computer programming using Labview, and surface and interface analysis. Spring 2003, 2004, 2005, 2006, 2007. Instructors: Dr. Merlin L. Bruening and Dr. Kathryn G. Severin, enrollment: 15-30.

Introductory Physical Chemistry I (Recitation Instructor) Physical chemistry of macroscopic systems including gases, liquids, phase diagrams, classic thermodynamics, chemical equilibrium, kinetics, electrolytic solutions and electrochemistry, and statistical mechanics. Fall 2002, 2003, 2004. Instructor: Dr. Paul F. Mantica, enrollment: 280.

#### **Undergraduate Research Mentor**

**2004 – 2007**

Department of Chemistry, Michigan State University

Heidi L. Bonta, Michigan State University: Incorporation of Selected Fluorophores into Field-Ready Devices for the Detection of Nitrated Explosives. Fall 2006-Fall 2007.



Jenny M. Borowitz, Michigan State University: Quantitation of Nitrated Explosives by Fluorescence Quenching following Thin-Layer Chromatography. Summer 2005-Spring 2006.

Victoria J. Hall, Huntington University: Selectivity of Fluorescein Quenching by Nitroaromatic Compounds. Summer 2004.

**Guest Lecturer**

**2005**

Forensic Science Workshop, Portage Northern High School, Portage, MI

Developed and presented forensic science-based laboratory experiments to 25 high school science teachers interested in incorporation of such materials into the classroom. Experiments included determination of blood alcohol content using visible spectrophotometry following reaction with a chromophore as well as comparison of soil composition (e.g. limestone, chloride, iron) using observation and visible spectrophotometry following addition of appropriate indicator solutions.

**Guest Lecturer**

**2004**

School of Criminal Justice, Michigan State University

Survey of Forensic Science. Scientific analysis of physical evidence. Four major aspects of physical evidence using real criminal and civil cases: generation of physical evidence by criminal activity; collection and preservation of physical evidence; analysis of physical evidence by forensic science laboratory; presentation of scientific expert testimony in court. Topics covered: Fire/arson and explosives analysis. Fall 2004. Instructor: Dr. David R. Foran, enrollment: 15.

**Tutor**

**2003 – 2005**

Department of Chemistry, Michigan State University

General Chemistry II and Introductory Physical Chemistry.

**Undergraduate Teaching Assistant**

**2001**

Department of Mathematics, Michigan State University

Multivariable Calculus (Recitation Instructor) Vectors in space, functions of several variables and partial differentiation, multiple integrals, line and surface integrals, and Green's and Stokes's theorems. Spring 2001. Instructor: Dr. Khodr M. Shamseddine, enrollment: 600.

**PROFESSIONAL AFFILIATIONS**

American Chemical Society (ACS)	2004-present
ACS Subdivision on Chromatography and Separations Chemistry	2009-present
AOAC International	2008-present
AOAC International Technical Division on Reference Materials	2011-present
Washington Chromatography Discussion Group	2008-present
American Academy of Forensic Sciences	2004-2008
Society of Electroanalytical Chemistry	2004-2008
Midwestern Association of Forensic Scientists	2007-2008
Society for Applied Spectroscopy	2007-2008

## **PROFESSIONAL DEVELOPMENT**

**Participant, The New ISO 13528:2015 Workshop on updated statistical methods for PT**, Training Course, QuoData GmbH (2016).

**Participant, Introduction to Chemometrics**, Short Course, Washington Chromatography Discussion Group (2013).

**Participant, Comprehensive Two-Dimensional Liquid Chromatography (LCxLC) Short Course**, HPLC 2013 (2013).

**Participant, Fundamentals of Uncertainty Analysis**, National Institute of Standards and Technology Short Course (2012).

**Participant, ISO 17043 Proficiency Testing Workshop**, National Voluntary Laboratory Accreditation Program (NVLAP) (2011).

**Participant, Introduction to Mass Spectrometry and Interpretation of Mass Spectra**, Baltimore-Washington Mass Spectrometry Discussion Group Short Course (2010).

**Participant, Single Laboratory Validation of Analytical Methods for Dietary Supplements**, AOAC Training Course (2008).

**Participant, Advanced HPLC Method Development**, Washington Chromatography Discussion Group Short Course (2008).

**Participant, Creating a Teaching Philosophy You Can Use**, Workshop, Teaching Assistant Programs, Michigan State University (2007).

**Participant, Talking about Teaching in the Interview**, Workshop, Teaching Assistant Programs, Michigan State University (2007).

**Participant, Understanding and Handling Classroom Incivility**, Workshop, Teaching Assistant Programs, Michigan State University (2007).

**Participant, Using Demonstrations to Promote Conceptual Understanding in Chemistry: Making Connections on the Macroscopic, Microscopic, and Symbolic Levels**, Lilly Seminar Series, Office of Faculty and Organizational Development, Michigan State University (2006).

**Participant, Making Classroom Lectures Interactive and Effective: Engaging Students in Course Content through Interactive Lecturing**, Lilly Seminar Series, Office of Faculty and Organizational Development, Michigan State University (2006).

## **ACADEMIC AND PROFESSIONAL SERVICE**

**Co-Guest Editor**, Journal of AOAC International, AOAC International (2016)  
Special Section on Reference Materials with 6 original research articles

**Co-Chair**, Proficiency Testing Task Force, Stakeholder Panel on Infant Formula and Adult Nutritionals, AOAC International, Gaithersburg, MD (2015-present)  
Provided expert guidance in establishing a proficiency testing program for infant formulas and adult nutritionals. Designed studies, including analyte and matrix selection, and established protocols for new program.

**Member**, AOAC INTERNATIONAL Editorial Board (2014-present)

**Co-Chair**, International Vitamin Conference (IVC), Washington, DC (2014)

**Member**, General Chapters Chemical Analysis Expert Committee, United States Pharmacopeia, Rockville, MD (2010-2015)  
Review and approve changes to USP guidelines related to chemical analysis.  
Member of Subcommittee on Dietary Supplements.  
Member of Expert Panel on Elemental Impurities.

**Stakeholder, Working Group Member, and Expert Review Panel Member**, Stakeholder Panel on Infant Formula and Adult Nutritionals, AOAC International, Gaithersburg, MD (2010-present)  
Provided expert guidance on method performance requirements for determination of vitamins in infant formulas.

**Stakeholder, Working Group Member, and Expert Review Panel Member**, Stakeholder Panel on Strategic Food Analytical Methods, AOAC International, Gaithersburg, MD (2014-present)  
Provided expert guidance on method performance requirements for determination of analytes of interest in foods.

**Stakeholder, Working Group Member, and Expert Review Panel Member**, Stakeholder Panel on Dietary Supplements, AOAC International, Gaithersburg, MD (2014-present)  
Provided expert guidance on method performance requirements for determination of analytes of interest in dietary supplements.

**Co-Guest Editor**, Analytical and Bioanalytical Chemistry, Springer (2012)  
Special Issue on Functional Food and Dietary Supplements with 25 original research articles and critical reviews

**Poster Committee**, HPLC Conference, Boston, MA (2010)  
Judged poster presentations to help identify a contest winner.

**Presenter**, Kids Adventures, Carderock Springs Elementary School, Bethesda, MD (2014)  
Presented science demonstrations to elementary children.

**Presenter**, Kids Adventures, Rock Creek Forest Elementary School, Chevy Chase, MD (2009, 2013)  
Presented science demonstrations to elementary children.  
Developed a lab to demonstrate pH using red cabbage indicator and household chemicals.

**Presenter**, Kids Adventures, Candlewood Elementary School, Derwood, MD (2013)  
Presented science demonstrations to elementary children.

**Presenter**, USA Science and Engineering Festival, Washington, DC (2012)

Presented science demonstrations to elementary children.

**Presenter**, Take your Daughters and Sons to Work Day, NIST, Gaithersburg, MD (April 2008-2010)

Developed a hands-on activity for 11 – 12 year olds.

Demonstrated chromatography principals using paper chromatography and separating food dye in grape soda.

**Secretary**, Washington Chromatography Discussion Group (2009-2015)

**Board Member**, Washington Chromatography Discussion Group (2008-2009)

**Poster Committee**, HPLC Conference, Baltimore, MD (2008)

Judged poster presentations to help identify a contest winner.

**Co-chair and Member**, ACS Women in Chemistry, Michigan State Local Section American Chemical Society (Member 2002-2007; Co-Chair 2004-2005)

American Chemical Society's National Chemistry Week. Performed demonstrations. Coordinated 30 demonstration teams in 2004.

Girls Math/Science Conference. Coordinated a hands-on session entitled "Solving Murder with Makeup" for sixth-grade girls. Sponsored by the Capital Area Science and Math Center.

Awards

Sustained Effort toward Excellence in Diversity, Office of Affirmative Action, Michigan State University, 2006.

Outstanding Overall Local Section Women Chemist Committee, American Chemical Society, 2003, 2004, 2005.

Outstanding Outreach to Girls or Young Women Finalist, American Chemical Society, 2003.

**Co-chair and Member, Orientation Committee**, Department of Chemistry, Michigan State University

Coordinated the orientation schedule for incoming graduate students. Organized and raised funds for a department-wide picnic. (Member 2003, 2004; Co-Chair 2005, 2006)

**Graduate Student Representative, Educational Policies Committee**, Department of Chemistry, Michigan State University

Modified graduate program course requirements and the written component for Ph.D. candidacy. Integrated a biological chemistry area into the department beginning Fall 2006. (2004-2007)

**Co-editor, Teaching Assistant Manual**, Department of Chemistry, Michigan State University

Prepared a document to assist incoming graduate students in their first experiences with teaching, including sections on learning styles, the types of students at MSU, tips on being an effective instructor, and a resource guide. (2004, 2006)

**Co-author and Presenter, University Policies and Procedures on Teaching**, Department of Chemistry, Michigan State University

Authored and delivered presentations designed to supplement the Teaching Assistant Manual, including skits and sections on learning styles, sexual harassment, academic dishonesty, and potential classroom situations. (2004-2006)

**Coordinator and Volunteer, Scout Chemistry Merit Badge Day**, Michigan State University

Coordinated a series of hands-on experiments and demonstrations in which 50 boy and girl scouts fulfill the requirements for the Chemistry Merit Badge. Administered a web-based sign up, communicated with scout leaders and parents, and organized volunteers. (Coordinator 2005-2006; Volunteer 2004)

**State Event Supervisor and Volunteer, Chemistry Lab**, Michigan Science Olympiad

Wrote and administered a laboratory practical for high school competition. Topics included thermodynamics, molecular structures, colligative properties, and redox reactions. Coordinated volunteers to set-up, proctor, and grade exams. (State Event Supervisor 2005, 2007; Volunteer 2006)

**Graduate Student Representative, Advisory Committee to the Chair**, Department of Chemistry, Michigan State University

Advised on departmental issues important to graduate students. Developed goals for other departmental committees. (2005-2007)

**Graduate Student Representative, Anti-Discrimination Judicial Board**, Michigan State University

Advised the President on issues related to discrimination in policy and procedure. (2005-2007)

**Coordinator, “Things Every Scientist Should Know – Outside the Laboratory”**, Women in Chemistry, Michigan State University

Coordinated speakers on topics including intellectual properties, alternative careers in the sciences, conflict resolution, health and wellness, scientific writing, and financial planning. Received a Local Section Innovative Grant from the American Chemical Society to support the seminar series. (2005)

## HONORS AND AWARDS

- 2015 William P. Slichter Award, NIST
- 2015 Expert Review Panel of the Year Member, AOAC International
- 2015 Best Poster Award, Scripps 12<sup>th</sup> Annual Natural Supplements: An Evidence Based Update
- 2013 Best Poster Award, HPLC 2013
- 2007 Educational Merit Fellowship, Department of Chemistry, Michigan State University
- 2007 Travel Fellowship, School of Criminal Justice, Michigan State University
- 2007 Travel Fellowship, American Chemical Society Michigan State University Local Section
- 2006 Educational Merit Fellowship, Department of Chemistry, Michigan State University
- 2006 Outstanding Graduate Student Woman, Faculty-Professional Women’s Association, Michigan State University
- 2006 Excellence-in-Teaching Citation, College of Natural Science, Michigan State University
- 2006 Travel Fellowship, The Graduate School, Michigan State University
- 2005 Tracy A. Hammer Outstanding Graduate Student Award, College of Natural Science, Michigan State University
- 2005 Educational Merit Fellowship, Department of Chemistry, Michigan State University
- 2005 Travel Fellowship, Council of Graduate Students, Michigan State University
- 2002 Recruitment Fellowship, Department of Chemistry, Michigan State University

## INVITED PUBLICATIONS

Melissa M. Phillips. “Choline: Properties and Determination.” In: Caballero, B., Finglas, P., and Toldrá, F. (eds.) *The Encyclopedia of Food and Health* vol. 2, pp. 73-78. Oxford: Academic Press. (2016)

Catherine A. Rimmer, Melissa M. Phillips. “Solution to Certified Reference Material Recipe Challenge.” *Anal. Bioanal. Chem.* 405 (2013) 6899-6900.

Catherine A. Rimmer, Melissa M. Phillips. “Certified Reference Material Recipe Challenge.” *Anal. Bioanal. Chem.* 405 (2013) 4321-4322.

Melissa M. Phillips, Catherine A. Rimmer. “Functional Foods and Dietary Supplements.” *Anal. Bioanal. Chem.* 405 (2013) 4323-4324.

Melissa M. Phillips. “Analytical Approaches to Determination of Total Choline in Foods and Dietary Supplements.” *Anal. Bioanal. Chem.* 403 (2012) 2103-2112.

Hendrik Emons, Jane Weitzel, John Budin, Melissa Phillips, Catherine Rimmer, Donna Zink. “TDRM/TDLM Workshop on Reference Materials and Laboratory Accreditation at the AOAC Annual Meeting 2011.” *Inside Laboratory Management*. (Nov/Dec 2011) 6-7.

Melissa M. Phillips. “André M. Striegel, Wallace W. Yau, Joseph J. Kirkland, and Donald D. Bly (Eds.): Modern size-exclusion liquid chromatography. Practice of gel permeation and gel filtration chromatography, 2<sup>nd</sup> ed.” *Anal. Bioanal. Chem.* 399 (2011) 1571-2.

Catherine A. Rimmer, Melissa M. Phillips. “Analytical Tools for the Dietary Supplement and Food Laboratory.” *Natural Products Insider* (Mar 7, 2011).

Paula Brown, Melissa Phillips, Catherine Rimmer, Laura Wood. “Quality Focus: GMPs: The Other Pieces of the Puzzle.” *Nutraceuticals World*. (Jan/Feb 2011) 28-29.

Paula Brown, Catherine Rimmer, Melissa Phillips, Laura Wood. “Quality Focus: The GMP Puzzle: What’s in Your Box?” *Nutraceuticals World*. (Nov 2010) 28-29.

## **PEER-REVIEWED SCIENTIFIC PUBLICATIONS**

Melissa M. Phillips, Mary Bedner, Manuela Gradl, Carolyn Q. Burdette, Michael A. Nelson, James H. Yen, Lane C. Sander, Catherine A. Rimmer. “Liquid Chromatography with Absorbance Detection and with Isotope-Dilution Mass Spectrometry for Determination of Isoflavones in Soy Standard Reference Materials.” (in preparation)

Janet Maxwell Roseland, Kristine Y. Patterson, Karen W. Andrews, Katherine M. Phillips, Melissa M. Phillips, Pamela R. Pehrsson, Guy L. Dufresne, Jette Jakobsen, Pavel A. Gusev, Sushma Savarala, Quynhanh V. Nguyen, Andrew J. Makowski, Chad R. Scheuerell, Guillaume P. Larouche, Stephen A. Wise, James M. Harnly, Juhi R. Williams, Joseph M. Betz, and Christine L. Taylor. “Interlaboratory Trial for Measurement of Vitamin D and 25-Hydroxyvitamin D [25(OH)D] in Foods and a Dietary Supplement Using Liquid Chromatography–Mass Spectrometry.” *J. Agric. Food Chem.* 64 (2016) 3167-3175.

Lynn X. Zhang, Carolyn Q. Burdette, Melissa M. Phillips, Catherine A. Rimmer, R. Kenneth Marcus. “Determination of Isoflavone Content in SRM 3238 Using Liquid Chromatography-Particle Beam/Electron Ionization Mass Spectrometry.” *J. AOAC Int.* 98 (2015) 1483-1490.

Melissa M. Phillips. “Liquid Chromatography with Isotope-Dilution Mass Spectrometry for Determination of Water-Soluble Vitamins in Foods.” *Anal. Bioanal. Chem.* 407 (2015) 2965-2974.

Benjamin J. Place, Mallory J. Morris, Melissa M. Phillips, Lane C. Sander, Catherine A. Rimmer. “Evaluation of the Impact of Peak Description on the Quantitative Capabilities of Comprehensive Two-Dimensional Liquid Chromatography.” *J. Chromatogr. A* 1368 (2014) 107-115.

Laura J. Wood, Katrice A. Lippa, Melissa M. Phillips, Catherine A. Rimmer, N. Alan Heckert, Stefan D. Leigh, Amanda J. Moors, Rebecca S. Pugh, and Lauren B. Rust. “Breakfast Cereal Sampling Study for Nutritional Elements.” *Anal. Bioanal. Chem.* 405 (2013) 4569-4578.

Mark S. Lowenthal, Melissa M. Phillips, Catherine A. Rimmer, Paul A. Rudnick, Yamil Simón-Manso, Stephen E. Stein, Dmitrii Tchekhovskoi, Karen W. Phinney. “Developing Qualitative LC-MS Methods for Characterization of *Vaccinium* Berry Standard Reference Materials.” *Anal. Bioanal. Chem.* 405 (2013) 4451-4465.

Lane C. Sander, Mary Bedner, David L. Duewer, Katrice A. Lippa, Melissa M. Phillips, Karen W. Phinney, Catherine A. Rimmer, Michelle M. Schantz, Katherine E. Sharpless, Susan Tai, Jeanice B. Thomas, Stephen A. Wise, Laura J. Wood. "The Development and Implementation of Quality Assurance Programs to Support Nutrient Measurements." *Anal. Bioanal. Chem.* 405 (2013) 4437-4441.

Melissa M. Phillips, Katherine E. Sharpless, Stephen A. Wise. "Standard Reference Materials for Foods: A Program Update." *Anal. Bioanal. Chem.* 405 (2013) 4325-4335.

Melissa M. Phillips, Lane C. Sander. "Microwave-Assisted Extraction and Quantitative LC/IDMS Measurement of Total Choline and Free Carnitine in Foods." *J. AOAC Int.* 95 (2012) 1479-1486.

Hendrik Emons, Jane Weitzel, John Budin, Melissa Phillips, Catherine Rimmer, Donna Zink. "TDRM/TDLM Workshop on Reference Materials and Laboratory Accreditation at the AOAC Annual Meeting 2011." *Accred. Qual. Assur.* 17 (2012) 101-105.

Melissa M. Phillips, Catherine A. Rimmer, Laura J. Wood, Katrice A. Lippa, Katherine E. Sharpless, David L. Duewer, Lane C. Sander, Joseph M. Betz. "NIST/NIH Dietary Supplement Laboratory Quality Assurance Program: The First Five Exercises." *J. AOAC Int.* 94 (2011) 803-814.

Ryan G. Brennan, Melissa M. Phillips, Liang Y.O. Yang, Thomas P. Moffat. "Characterization and Purification of Commercial SPS and MPS by Ion Chromatography and Mass Spectrometry." *J. Electrochem. Soc.* 158 (2011) D178-86.

Melissa M. Phillips, Ryan J. Case, Catherine A. Rimmer, Katherine E. Sharpless, Stephen A. Wise, Lane C. Sander. "Determination of Organic Acids in *Vaccinium* Berry Standard Reference Materials." *Anal. Bioanal. Chem.* 398 (2010) 425-434.

Melissa S. Meaney, Victoria L. McGuffin. "Investigation of Common Fluorophores for the Detection of Nitrated Explosives by Fluorescence Quenching." *Anal. Chim. Acta* 610 (2008) 57-67.

Melissa S. Meaney, Victoria L. McGuffin. "Luminescence-Based Methods for Sensing and Detection of Explosives." *Anal. Bioanal. Chem.* 391 (2008) 2557-2576.

## **NIST SPECIAL PUBLICATIONS**

Melissa M. Phillips, Catherine A. Rimmer, Laura J. Wood. "Dietary Supplement Laboratory Quality Assurance Program: Exercise K Final Report." NIST Interagency Report 8032. Gaithersburg, MD, USA. DOI: 10.6028/NIST.IR.8032. <http://dx.doi.org/10.6028/NIST.IR.8032> (November 2014).

Melissa M. Phillips, Catherine A. Rimmer, Laura J. Wood, Mary Bedner, Kaitlyn D. Chieh, Rick L. Paul. "Dietary Supplement Laboratory Quality Assurance Program: Exercise J Final Report." NIST Interagency Report 7997. Gaithersburg, MD, USA. DOI: 10.6028/NIST.IR.7997. <http://dx.doi.org/10.6028/NIST.IR.7997> (April 2014).

Melissa M. Phillips, Catherine A. Rimmer, Laura J. Wood, Karen E. Murphy, Thomas W. Vetter. "Dietary Supplement Laboratory Quality Assurance Program: Exercise I Final Report." NIST Interagency Report 7955. Gaithersburg, MD, USA. DOI: 10.6028/NIST.IR.7955. <http://dx.doi.org/10.6028/NIST.IR.7955> (August 2013).

Melissa M. Phillips, Catherine A. Rimmer, Laura J. Wood, Anthony F. Marlow, Michele M. Schantz, John R. Sieber. "Dietary Supplement Laboratory Quality Assurance Program: Exercise H Final Report." NIST Interagency Report 7903. Gaithersburg, MD, USA. DOI: 10.6028/NIST.IR.7903. <http://dx.doi.org/10.6028/NIST.IR.7903> (Dec 2012).

## **PUBLISHED ABSTRACTS**

Melissa M. Phillips. “NIST Tools for Quality Assurance in Botanical Dietary Supplement Measurements.” *Planta Med.*, 77 (2011).

## **INVITED PRESENTATIONS**

Melissa M. Phillips, Laura J. Wood, Katherine E. Sharpless, Stephen A. Wise. “Food Reference Materials for Nutritional Assessment.” 14th Biological and Environmental Reference Material (BERM) Symposium, Washington, DC, October 2015.

Melissa M. Phillips. “The Role of Standard Reference Materials in Method Performance Verification Studies.” 128th AOAC INTERNATIONAL Annual Meeting and Exposition, Boca Raton, FL, September 2014.

Melissa M. Phillips. “Metrology 101: No Umbrella Required.” Penn State Erie, The Behrend College, Erie, PA, December 2013.

Melissa M. Phillips. “Eggs, Milk, Cereal, and Meat: SRMs for Breakfast.” The Pittsburgh Conference, Philadelphia, PA, March 2013.

Melissa M. Phillips. “Challenges in the Certification of Dietary Supplement Standard Reference Materials.” The Pittsburgh Conference, Orlando, FL, March 2012.

Melissa M. Phillips. “NIST Tools for Quality Assurance in Botanical Dietary Supplement Measurements.” 10<sup>th</sup> Annual International Conference on the Science of Botanicals, Oxford, MS, April 2011.

Melissa M. Phillips, Lane C. Sander, Katherine E. Sharpless, Stephen A. Wise. “The Journey of a Standard Reference Material.” College of the Holy Cross, Worcester, MA, June 2010.

Melissa M. Phillips, Lane C. Sander, Katherine E. Sharpless, Stephen A. Wise. “Development of Cranberry Juice Cocktail and Other Related Reference Materials.” 123<sup>rd</sup> AOAC Annual Meeting and Exposition, Philadelphia, PA, September 2009.

Melissa S. Meaney, Lane C. Sander, Katherine E. Sharpless, Stephen A. Wise. “Characterization of NIST Dietary Supplement SRMs.” Chromatography Forum of the Delaware Valley Spring Symposium, Fort Washington, PA, April 2009.

## **ORAL PRESENTATIONS**

Melissa M. Phillips, Catherine A. Rimmer. “NIST Tools for the Analysis of Dietary Supplements and Foods.” SupplySide East, Secaucus, NJ, May 2011.

Melissa M. Phillips, Lane C. Sander, Katherine E. Sharpless, and Stephen A. Wise. “Determination of Water-Soluble Vitamins in NIST Food Matrix SRMs.” The Pittsburgh Conference, Atlanta, GA, March 2011.

Melissa M. Phillips, Catherine A. Rimmer, Lane C. Sander, Katherine E. Sharpless, and Stephen A. Wise. “Determination of Vitamins in NIST Food Matrix SRMs.” The Pittsburgh Conference, Orlando, FL, March 2010.

Melissa M. Phillips, Lane C. Sander, Katherine E. Sharpless, Stephen A. Wise. “Certification of Organic Acid and Flavonol Concentrations in *Vaccinium* Berry Standard Reference Materials (SRMs).” 238<sup>th</sup> American Chemical Society National Meeting and Exposition, Washington, DC, August 2009.

Melissa S. Meaney, Victoria L. McGuffin. “Fluorescence Quenching of Fluorescein for the Detection of Acids in Forensic Samples.” The Pittsburgh Conference, Chicago, IL, March 2007.



Melissa S. Meaney, Victoria L. McGuffin. “Fluorescence Quenching of Fluorescein for the Detection of Carboxylic Acids.” The Pittsburgh Conference, Orlando, FL, March 2006.

Melissa S. Meaney, Victoria L. McGuffin. “Investigation of Common Fluorophores for the Detection of Nitrated Explosives by Fluorescence Quenching.” The Pittsburgh Conference, Orlando, FL, March 2005.

## **POSTER PRESENTATIONS**

Melissa M Phillips, Catherine A Rimmer, Laura J Wood, Joseph M Betz. “NIST Tools for Dietary Supplements Testing: Ensuring Quality in Commercial Products.” 13th Annual Natural Supplements: An Evidence-Based Update, San Diego, CA, January 2016.

Catherine A Rimmer, Melissa M Phillips, Michele M Schantz, Laura J Wood, Lee Yu, Joseph M Betz. “Marine Reference Materials for Dietary Supplement Analysis.” 13th Annual Natural Supplements: An Evidence-Based Update, San Diego, CA, January 2016.

Melissa M Phillips, Catherine A Rimmer, Laura J Wood, Joseph M Betz. “Interlaboratory Studies for Dietary Supplements: Fundamentals for Understanding Supplement Composition.” 14th Biological and Environmental Reference Material (BERM) Symposium, Washington, DC, October 2015.

Melissa M. Phillips, Benjamin J. Place, Catherine A. Rimmer, Lane C. Sander, Katherine E. Sharpless, Stephen A. Wise. “Characterization of Polyphenols in Vaccinium Berry Dietary Supplement Standard Reference Materials.” 14th Biological and Environmental Reference Material (BERM) Symposium, Washington, DC, October 2015.

Laura J. Wood, Melissa M. Phillips, Joseph F. Browning, Johanna E. Camara, Kaitlyn D. Chieh, Siva K. R. Chinthapati, Grace E. Hahm, John Molloy, Rick L. Paul, Savelas A. Rabb, Michele M. Schantz, Katherine E. Sharpless, John R. Sieber, Lee L. Yu. “Characterization of a New Total Nutrient Standard Reference Material: Dry Cat Food.” 14th Biological and Environmental Reference Material (BERM) Symposium, Washington, DC, October 2015.

Melissa M. Phillips, Laura J. Wood, Joseph F. Browning, Johanna E. Camara, Kaitlyn D. Chieh, W. Clay Davis, Grace E. Hahm, Jeanita S. Pritchett, Michele M. Schantz, Katherine E. Sharpless, John R. Sieber, Lorna T. Sniegoski, Michael J. Welch. “Characterization of a New Total Nutrient Standard Reference Material: Protein Drink Mix.” 14th Biological and Environmental Reference Material (BERM) Symposium, Washington, DC, October 2015.

Brittany L. Catron, Kaitlyn D. Chieh, Peter B. Howell, Stephen E. Long, Karen E. Murphy, Michael A. Nelson, Rick L. Paul, Melissa M. Phillips, Catherine A. Rimmer, Lane C. Sander, Katherine E. Sharpless, Stephen A. Wise, Laura J. Wood. “Characterization of St. John’s Wort Standard Reference Materials (SRMs).” 14th Biological and Environmental Reference Material (BERM) Symposium, Washington, DC, October 2015.

Melissa M. Phillips, Laura J. Wood, Catherine A. Rimmer, Mary Bedner, Jeanice B. Thomas, Katherine E. Sharpless, Lane C. Sander, Stephen A. Wise. “Soy Standard Reference Materials (SRMs) for Quality Assurance in Nutrition Measurements.” 14th Biological and Environmental Reference Material (BERM) Symposium, Washington, DC, October 2015.

Melissa M. Phillips, Johanna E. Camara, Grace E. Hahm, Karen W. Phinney, Lane C. Sander, and Stephen A. Wise. “Using Isotope Dilution with LC/MS and LC/MS/MS to Measure Water-Soluble Vitamins in NIST Unfortified and Fortified Food-Matrix SRMs.” 14th Biological and Environmental Reference Material (BERM) Symposium, Washington, DC, October 2015.

Melissa M Phillips, Catherine A Rimmer, Laura J Wood, Joseph M Betz. “Interlaboratory Studies for Dietary Supplements: Fundamentals for Understanding Supplement Composition.” 129<sup>th</sup> AOAC INTERNATIONAL Annual Meeting and Exposition, Los Angeles, CA, September 2015.

Hannah Simon, Melissa M. Phillips, Catherine A. Rimmer, Caleb J. Porter. “Value Assignment of Curcuminoids in Turmeric Standard Reference Materials.” 129<sup>th</sup> AOAC INTERNATIONAL Annual Meeting and Exposition, Los Angeles, CA, September 2015.

Melissa M. Phillips, Laura J. Wood, Joseph F. Browning, Johanna E. Camara, Kaitlyn D. Chieh, W. Clay Davis, Grace E. Hahm, Jeanita S. Pritchett, Michele M. Schantz, Katherine E. Sharpless, John R. Sieber, Lorna T. Sniegoski, Michael J. Welch. “Characterization of a New Total Nutrient Standard Reference Material: Protein Drink Mix.” 129<sup>th</sup> AOAC INTERNATIONAL Annual Meeting and Exposition, Los Angeles, CA, September 2015.

Brittany L. Catron, Kaitlyn D. Chieh, Peter B. Howell, Stephen E. Long, Karen E. Murphy, Michael A. Nelson, Rick L. Paul, Melissa M. Phillips, Catherine A. Rimmer, Lane C. Sander, Katherine E. Sharpless, Stephen A. Wise, Laura J. Wood. “Characterization of St. John’s Wort Standard Reference Materials (SRMs).” 129<sup>th</sup> AOAC INTERNATIONAL Annual Meeting and Exposition, Los Angeles, CA, September 2015.

Melissa M. Phillips, Laura J. Wood, Catherine A. Rimmer, Mary Bedner, Jeanice B. Thomas, Katherine E. Sharpless, Lane C. Sander, Stephen A. Wise. “Soy Standard Reference Materials (SRMs) for Quality Assurance in Nutrition Measurements.” 129<sup>th</sup> AOAC INTERNATIONAL Annual Meeting and Exposition, Los Angeles, CA, September 2015.

Melissa M Phillips, Catherine A Rimmer, Laura J Wood, Joseph M Betz. “Interlaboratory Studies for Dietary Supplements: Fundamentals for Understanding Supplement Composition.” 12<sup>th</sup> Annual Natural Supplements: An Evidence-Based Update, San Diego, CA, January 2015.

Melissa M. Phillips, Catherine A. Rimmer, Lane C. Sander. “LC-MS and LC-MS/MS for Determination of Water-Soluble Vitamins in Foods.” 127<sup>th</sup> AOAC INTERNATIONAL Annual Meeting and Exposition, Chicago, IL, August 2013.

Melissa M. Phillips, Mallory J. Morris, Benjamin J. Place, Catherine A. Rimmer, Lane C. Sander. “Comparison of Commercial Software Approaches for Quantitation in Two-Dimensional Liquid Chromatography.” HPLC2013, Amsterdam, the Netherlands, June 2013.

Melissa M. Phillips, Catherine A. Rimmer, Lane C. Sander. “LC-MS and LC-MS/MS for Determination of Water-Soluble Vitamins in Foods.” HPLC2013, Amsterdam, the Netherlands, June 2013.

Melissa M. Phillips, Lane C. Sander, and Stephen A. Wise. “Using LC/MS/MS to Measure Water-Soluble Vitamins in NIST Unfortified Food-Matrix SRMs.” 126<sup>th</sup> AOAC INTERNATIONAL Annual Meeting and Exposition, Las Vegas, NV, October 2012.

Catherine A. Rimmer, Melissa M. Phillips, Laura J. Wood. “Improving Measurement Capabilities: NIST Interlaboratory Studies for Food and Dietary Supplements.” 126<sup>th</sup> AOAC INTERNATIONAL Annual Meeting and Exposition, Las Vegas, NV, October 2012.

Melissa M. Phillips, Catherine A. Rimmer, Lane C. Sander. “Microwave-Assisted Extraction and LC-MS Analysis of Total Choline and Free Carnitine in Foods.” The Second International Vitamin Conference, Copenhagen, Denmark, May 2012.

Melissa Phillips, Mary Bedner, Johanna Camara, Danielle Cleveland, Candice Jongsma, Mark Lowenthal, Bryant Nelson, Karen Phinney, Karsten Putzbach, Catherine Rimmer, Lane Sander, Katherine Sharpless, Susan Tai, Jeanice Thomas, Stephen Wise. “Standard Reference Materials for the Determination of Vitamins in Food,

Supplement, and Clinical Samples.” The Second International Vitamin Conference, Copenhagen, Denmark, May 2012.

Catherine A. Rimmer, Melissa M. Phillips, Laura J. Wood, Katherine E. Sharpless, Stephen A. Wise, Lane C. Sander. “NIST Dietary Supplement Laboratory Quality Assurance Program: A Tool for Improving Vitamin Measurements in Foods and Dietary Supplements.” The Second International Vitamin Conference, Copenhagen, Denmark, May 2012.

Melissa M. Phillips, Lane C. Sander, Stephen A. Wise. “Microwave-Assisted Extraction and LC-MS Analysis of Total Choline in Foods.” 125th AOAC INTERNATIONAL Annual Meeting and Exposition, New Orleans, LA, September 2011.

Catherine A. Rimmer, Mary Bedner, Manuela K. Grادل, Mariana Arce-Osuna, Melissa M. Phillips, Lane C. Sander, Katherine E. Sharpless, Klaus Albert. “Determination of Soy Isoflavones in Foods and Dietary Supplements.” 125th AOAC INTERNATIONAL Annual Meeting and Exposition, New Orleans, LA, September 2011.

Catherine A. Rimmer, Melissa M. Phillips, Laura J. Wood, Katrice A. Lippa, Stephen A. Wise, Lane C. Sander. “NIST Dietary Supplement Laboratory Quality Assurance Program: The First Five Years.” 125th AOAC INTERNATIONAL Annual Meeting and Exposition, New Orleans, LA, September 2011.

Melissa M. Phillips, Lane C. Sander, Katherine E. Sharpless, Stephen A. Wise. “Determination of B-Vitamins, Choline, and Carnitine in NIST Food-Matrix SRMs.” HPLC, Budapest, Hungary, June 2011.

Mary Bedner, Manuela K. Grادل, Mariana Arce-Osuna, Melissa M. Phillips, Catherine A. Rimmer, Lane C. Sander, Katherine E. Sharpless, Klaus Albert. “Determination of Soy Isoflavones in Foods and Dietary Supplements.” HPLC, Budapest, Hungary, June 2011.

Melissa M. Phillips, Ryan G. Brennan, Thomas P. Moffat. “Analytical Characterization of Commercial SPS and MPS by Ion Chromatography and Mass Spectrometry.” The Pittsburgh Conference, Atlanta, GA, March 2011.

Melissa M. Phillips, Lane C. Sander, Katherine E. Sharpless, and Stephen A. Wise. “Determination of Water-Soluble Vitamins in NIST Food-Matrix SRMs.” 124<sup>th</sup> AOAC INTERNATIONAL Annual Meeting and Exposition, Orlando, FL, September 2010.

Lisa Steinhauser, Melissa M. Phillips, Catherine A. Rimmer, Klaus Albert, Lane C. Sander. “Method Development for the Determination of Yohimbine in Dietary Supplements.” 124<sup>th</sup> AOAC INTERNATIONAL Annual Meeting and Exposition, Orlando, FL, September 2010.

Melissa M. Phillips, Catherine A. Rimmer, Kevin D. Krueger, Mark S. Lowenthal, Rachel A. Lieberman, Lane C. Sander. “Characterization of *Vaccinium* Berry Standard Reference Materials (SRMs).” HPLC, Boston, MA, June 2010.

Melissa M. Phillips, Catherine A. Rimmer, Karen W. Phinney, Jeanice B. Thomas, Bryant C. Nelson, Lane C. Sander. “Determination of Water-Soluble Vitamins in NIST Food-Matrix SRMs.” The First International Vitamin Conference, Copenhagen, Denmark, May 2010.

Melissa M. Phillips, Catherine A. Rimmer, Lane C. Sander, Karen W. Phinney, Jeanice B. Thomas, Bryant C. Nelson, Karsten Putzbach, Katherine E. Sharpless, Stephen A. Wise. “Standard Reference Materials for the Determination of Vitamins in Foods and Dietary Supplements.” The First International Vitamin Conference, Copenhagen, Denmark, May 2010.

Catherine A. Rimmer, Melissa M. Phillips, Laura J. Wood, Katrice A. Lippa, Lane C. Sander. “NIST Dietary Supplements Laboratory Quality Assurance Program: A Focus on Vitamin Exercises.” The First International Vitamin Conference, Copenhagen, Denmark, May 2010.

Melissa M. Phillips, Catherine A. Rimmer, Lane C. Sander, Katherine E. Sharpless, Stephen A. Wise. “Determination of Vitamins in NIST Food Matrix SRMs.” NIST Sigma Xi Postdoctoral Poster Session, Gaithersburg, MD, February 2010.

Catherine Rimmer, Katrice Lippa, Melissa Phillips, David Duewer, Lane Sander, Katherine Sharpless, Stephen Wise, Laura Wood. “Dietary Supplement Laboratory Quality Assurance Program.” 123<sup>rd</sup> AOAC INTERNATIONAL Annual Meeting and Exposition, Philadelphia, PA, September 2009.

Melissa M. Phillips, Lane C. Sander, Katherine E. Sharpless, Stephen A. Wise. “Development of *Vaccinium* Berry Dietary Supplement Standard Reference Materials (SRMs).” 12<sup>th</sup> Biological and Environmental Reference Material (BERM) Symposium, Oxford, UK, July 2009.

Catherine A. Rimmer, Katrice A. Lippa, Laura J. Wood, Melissa M. Phillips, Katherine E. Sharpless, Stephen A. Wise, Lane C. Sander, David L. Duewer. “NIST Quality Assurance Program for Dietary Supplements.” 12<sup>th</sup> Biological and Environmental Reference Material (BERM) Symposium, Oxford, UK, July 2009.

Melissa S. Meaney, Lane C. Sander, Katherine E. Sharpless, Stephen A. Wise. “Characterization of Organic Acid and Flavonoid Profiles in *Vaccinium* Berry Dietary Supplement Standard Reference Materials (SRMs).” The Pittsburgh Conference, Chicago, IL, March 2009.

Melissa S. Meaney, Lane C. Sander, Katherine E. Sharpless, Stephen A. Wise. “Characterization of Organic Acid and Flavonoid Profiles in *Vaccinium* Berry Dietary Supplement Standard Reference Materials (SRMs).” NIST Sigma Xi Postdoctoral Poster Session, Gaithersburg, MD, February 2009.

Melissa S. Meaney, Lane C. Sander, Katherine E. Sharpless, Stephen A. Wise. “Development of *Vaccinium* Berry Dietary Supplement Standard Reference Materials (SRMs).” HPLC, Baltimore, MD, May 2008.

Melissa S. Meaney, Victoria L. McGuffin. “Fluorescence Quenching Detection of Nitrated Explosives.” The Pittsburgh Conference, Chicago, IL, March 2004.

## SRM ACTIVITIES

- RM 8441a Wheat Hardness (TPL/TC)  
Extended certification date based on USDA data.
- RM 8445 Spray-Dried Whole Egg for Allergen Detection (TPL/TC)  
Extended certification date based on FDA data.
- RM 8642a FDA Saxitoxin Dihydrochloride Solution (TPL/TC)  
Acquired material from FDA.
- SRM 194a Ammonium Dihydrogen Phosphate  
Measured ammonium and phosphate by IC-CD.
- SRM 916b Bilirubin  
Method developed for stabilization and measurement of bilirubin isomers XIII $\alpha$ , IX $\alpha$ , and III $\alpha$  by LC-Abs.
- SRM 1544 Fatty Acids and Cholesterol in a Frozen Diet Composite (TPL/TC)  
To be discontinued when out of stock. To be replaced by SRM 1548b Typical Diet.
- SRM 1546a Meat Homogenate (TPL/TC)  
Measured water-soluble vitamins by ID-LC/MS/MS. Prepared data for submission to SED.  
Drafted and finalized Certificate of Analysis. Prepared additional data for submission to SED.  
Updated and finalized Certificate of Analysis.
- SRM 1548a Typical Diet (TPL/TC)  
Planned and purchased material to prepare renewal SRM.
- SRM 1549a Whole Milk Powder (TPL/TC)  
Measured water-soluble vitamins, choline, and carnitine by ID-LC-MS.
- SRM 1577c Bovine Liver  
Prepared additional data for submission to SED.
- SRM 1845a Whole Egg Powder (TPL/TC)  
Measured water-soluble vitamins by ID-LC/MS/MS. Measured choline and carnitine by ID-LC-MS. Prepared data for submission to SED.
- SRM 1849a Infant/Adult Nutritional Formula (TPL/TC)  
Measured water-soluble vitamins, choline, and carnitine by ID-LC-MS. Prepared additional data for submission to SED. Drafted and finalized updated Certificate of Analysis.
- SRM 1869a Infant/Adult Nutritional Formula (TPL/TC)  
Acquired material and stratified samples. Coordinated technical measurements made by NIST staff and collaborating laboratories.
- SRM 1974c Organics in Mussel Tissue (*Mytilus edulis*)  
Prepared updated Certificate of Analysis.
- SRM 2383a Baby Food Composite (TPL/TC)  
Measured water-soluble vitamins by ID-LC-MS. Obtained additional carotenoid data from contracting laboratory. Prepared data for submission to SED. Drafted and finalized updated Certificate of Analysis.
- SRM 2384 Baking Chocolate (TPL/TC)  
Measured water-soluble vitamins by ID-LC-MS/MS. Coordinated stability for 5 additional analyte groups. Prepared data for submission to SED. Drafted and finalized updated Certificate of Analysis.

SRM 2385 Slurried Spinach (TPL/TC)

SRM 2386 Avocado Powder (TPL/TC)  
Acquired material and stratified samples. Coordinated measurement of total nutrients through Grocery Manufacturer's Association. Coordinated technical measurements made by NIST staff.

SRM 2387 Peanut Butter (TPL/TC)  
Measured water-soluble vitamins by ID-LC-MS/MS. Coordinated stability for 3 additional analyte groups. Prepared data for submission to SED. Drafted and finalized updated Certificate of Analysis.

SRM 3180 Iodide Anion Standard Solution  
Measured iodide by IC-CD.

SRM 3233 Fortified Breakfast Cereal (TPL/TC)  
Measured water-soluble vitamins by ID-LC-MS.

SRM 3234 Soy Flour (TPL/TC)  
Measured water-soluble vitamins by ID-LC/MS/MS. Measured choline and carnitine by ID-LC-MS. Measured isoflavones by LC-UV. Prepared isoflavones data for submission to SED. Drafted and finalized updated Certificate of Analysis.

SRM 3235 Soy Milk (TPL/TC)  
Measured isoflavones by LC-UV. Measured water-soluble vitamins by ID-LC/MS/MS. Coordinated measurement of total nutrients by Grocery Manufacturer's Association. Prepared data for submission to SED.

SRM 3236 Soy Protein Isolate (TPL/TC)  
Measured isoflavones by LC-UV. Prepared data for submission to SED. Drafted and finalized Certificate of Analysis.

SRM 3237 Soy Protein Concentrate (TPL/TC)  
Measured isoflavones by LC-UV. Prepared data for submission to SED. Drafted and finalized Certificate of Analysis.

SRM 3238 Soy-Containing Solid Oral Dosage Form (TPL/TC)  
Measured isoflavones by LC-UV. Prepared data for submission to SED. Drafted and finalized Certificate of Analysis.

SRM 3239 Isoflavones Calibration Solution (TPL/TC)  
Prepared solutions. Measured isoflavones by LC-UV. Prepared data for submission to SED. Drafted and finalized Certificate of Analysis.

SRM 3252 Protein Drink Mix (TPL/TC)  
Measured water-soluble vitamins by ID-LC/MS/MS. Measured choline and carnitine by ID-LC-MS (via Grace Hahn, student intern). Coordinated measurement of total nutrients through Grocery Manufacturer's Association. Prepared data for submission to SED. Drafted and finalized Certificate of Analysis.

SRM 3253 Yerba Mate (TPL/TC)  
Prepared data for submission to SED. Drafted and finalized Certificate of Analysis.

SRM 3262 St. John's Wort Aerial Parts  
Measured chlorogenic acid, flavonoids, and naphthodianthrones by LC with absorbance and fluorescence detection.

- SRM 3264 St. John's Wort Methanol Extract  
Measured chlorogenic acid, flavonoids, and naphthodianthrones by LC with absorbance and fluorescence detection.
- SRM 3276 Carrot Extract in Oil (TPL/TC)
- SRM 3277 Krill Oil  
Coordinated measurement of fatty acids and astaxanthin through Grocery Manufacturer's Association.
- SRM 3278 Tocopherols in Edible Oils (TPL/TC)  
Extended certification range based on stability data.
- SRM 3281 Cranberry (Fruit)  
Measured organic acids by ID-LC-MS and ID-GC-MS. Method developed for measurement of anthocyanidins and flavonols by LC-Abs. Method developed for measurement of anthocyanins by LC-Abs. Method developed for fingerprinting of proanthocyanidins by LC-FL-MS. Conducted stability testing of organic acids by LC-MS.
- SRM 3282 Low-Calorie Cranberry Juice Cocktail  
Measured organic acids by IC-CD and LC-UV, method developed for measurement of anthocyanidins and flavonols by LC-Abs. Conducted stability testing of organic acids by LC-MS.
- SRM 3283 Cranberry Extract  
Measured organic acids by IC-CD and ID-LC-MS, method developed for measurement of anthocyanidins and flavonols by LC-Abs. Method developed for measurement of anthocyanins by LC-Abs. Method developed for fingerprinting of proanthocyanidins by LC-FL-MS. Conducted stability testing of organic acids by LC-MS.
- SRM 3284 Cranberry-Containing Solid Oral Dosage Form  
Measured organic acids by IC-CD and ID-LC-MS, method developed for measurement of anthocyanidins and flavonols by LC-Abs. Method developed for measurement of anthocyanins by LC-Abs. Method developed for fingerprinting of proanthocyanidins by LC-FL-MS. Conducted stability testing of organic acids by LC-MS.
- SRM 3285 Mixed Berry-Containing Solid Oral Dosage Form  
Measured organic acids by IC-CD and ID-LC-MS, method developed for measurement of anthocyanidins and flavonols by LC-Abs. Method developed for measurement of anthocyanins by LC-Abs. Method developed for fingerprinting of proanthocyanidins by LC-FL-MS. Conducted stability testing of organic acids by LC-MS.
- SRM 3286 Organic Acids Calibration Solution (TPL/TC)  
Prepared and measured organic acids by LC-UV. Drafted and finalized Certificate of Analysis. Conducted stability testing of organic acids by LC-MS.
- SRM 3287 Blueberry (Fruit)  
Measured organic acids by IC-CD and ID-LC-MS, method developed for measurement of anthocyanidins and flavonols by LC-Abs. Method developed for measurement of anthocyanins by LC-Abs. Method developed for fingerprinting of proanthocyanidins by LC-FL-MS. Measured water-soluble vitamins by ID-LC-MS. Conducted stability testing of organic acids by LC-MS.
- SRM 3290 Dry Cat Food (TPL/TC)  
Measured water-soluble vitamins by ID-LC/MS/MS. Measured choline and carnitine by ID-LC-MS (via Grace Hahm, student intern). Coordinated measurement of total nutrients, gravimetric fat, and crude fiber through Grocery Manufacturer's Association. Collected final data and

prepared Report of Analysis summary for total nutrients. Prepared data for submission to SED. Drafted and finalized Certificate of Analysis.

SRM 3291

Bilberry Extract

Measured organic acids by ID-LC-MS, method developed for measurement of organic acids by IC-CD and of anthocyanidins and flavonols by LC-Abs. Method developed for measurement of anthocyanins by LC-Abs. Method developed for fingerprinting of proanthocyanidins by LC-FL-MS. Conducted stability testing of organic acids by LC-MS.

SRM 3951

Vitamin B<sub>12</sub> in Frozen Human Serum

Attempted to develop an ID-LC-MS/MS method for cyanocobalamin. Detection limits are not low enough for the SRM.



Date: July 15, 2016

Subject: Letter for Recommendation for Dr. Melissa Phillips

Dr. Shawna Roman,  
Dr. Erin Crowley,

I highly recommend Dr. Melissa Phillips as a member of the Official Methods Board of AOAC International. I have known Dr. Phillips for more than 6 years through my interactions with the National Institutes of Standards and Technology (NIST) and meetings of AOAC, the US Pharmacopeia (USP), and the Office of Dietary Supplements (NIH). Dr. Phillips is Program Coordinator for Food and Nutrition at NIST and has extensive experience with reference materials. She is an excellent chemist and with a broad background in the areas of analytical mass spectrometry, reference materials, and proficiency testing.

Dr. Phillips has been very active with AOAC for the last 8 years and is very familiar with the AOAC culture. She is currently a member of the Technical Division on Reference Materials and the AOAC Editorial Board, and was co-guest editor for an AOAC journal special issue of reference materials. She has served on the Stakeholder Panels, as a Working Group member, and on the Expert Review Panels for Infant Formula and Adult Nutritionals, Strategic Food Analytical Methods, and Dietary Supplements.

Outside of AOAC, Dr. Phillips served as a co-chair for the International Vitamin Conference in 2014. She served as a member of the USP General Chapters Chemical Analysis Expert Committee and was a co-guest editor for a special issue on Functional Food and Dietary Supplements for Analytical and Bioanalytical Chemistry. She has 10 invited publications, 9 invited presentations, and 16 peer-reviewed publications in addition to 5 NIST special publications.

In summary, Dr. Phillips is a very experienced researcher with a wide range of expertise in analytical methodology and applications and is well versed in the AOAC approach to method approval and validation. I can recommend her without qualification to the Official Methods Board.

James Harnly  
Research Leader  
Food Composition and Methods Development Lab  
Beltsville Human Nutrition Research Center  
Agricultural Research Service  
US Department of Agriculture  
Beltsville, MD

And

Former President  
Board of Directors

AOAC International



Donald L. Gilliland, PhD  
Abbott Nutrition  
3300 Stelzer Rd  
Columbus, OH 43219  
July 14, 2016

Shauna Roman, PhD  
Chair, AOAC Official Methods Board

Dear Shauna:

I would like to recommend Dr. Melissa Phillips as a member of the AOAC Official Methods Board (OMB).

Melissa has been quite active in various roles within AOAC including AOAC Editorial Board (member), a number of Stakeholder Panels (Dietary Supplements- SPDS, Infant Formulas and Adult Nutritionals -SPIFAN, Strategic Food Analytical Methods – SPSFAM and numerous Working Groups. She also served as a Co-Chair of the 3<sup>rd</sup> International Vitamin Conference (2014). In these and other activities, Melissa continuously offers significant technical and procedural contributions. Her scientific acumen combined with her experience within these scientific communities and AOAC have been of great value.

On a more personal note, I appreciate Melissa's ability to interact comfortably and competently within diverse expert groups.

I have full confidence that Melissa will be an asset to the OMB and enthusiastically recommend her for membership.

Please feel free to contact me should any additional information be needed.

Sincerely,

A handwritten signature in dark ink, appearing to read 'D. Gilliland', followed by the date '7/14/16' written in a similar cursive style.

Donald L. Gilliland, PhD

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**UNITED STATES DEPARTMENT OF COMMERCE**  
**National Institute of Standards and Technology**  
Gaithersburg, Maryland 20899-

July 14, 2016

AOAC International  
2275 Research Blvd, Suite 300  
Rockville, Maryland

Dear Members of the Official Methods Board Search Committee:

I am writing this letter to express my strong support and exceptional enthusiasm for the appointment of Dr. Melissa M. Phillips to the Official Methods Board.

As you know, Dr. Phillips has been active in the AOAC for some time, most notable as a member of the Stakeholder Panel for Infant Formula and Adult Nutritionals (SPIFAN). The important contributions of that group were recognized last year with the Expert Panel of the Year Award.

Dr. Phillips has excellent leadership and organizational skills. She serves as Program Coordinator for Foods in the Organic Chemical Measurement Sciences Group. In this capacity, she is responsible for the coordination of our standards and analytical methods development activities related to foods, beverages, infant formulas, and related materials. Her broad understanding of these matters would, in my opinion, be a great asset to the Official Methods Board.

Participation in AOAC activities is also advantageous for our organization. It allows us to more closely align our research and development activities to the needs of our stakeholders. Dr. Phillips' participation in the Official Methods Board will provide high-quality, high-level input to our decisions and also offer added visibility to our standards-related activities.

In conclusion, I do hope that Dr. Phillips will be appointed to the Official Methods Board. It would be to the benefit of both of our organizations.

Faithfully Yours,

Roger D. van Zee, Deputy Chief  
Chemical Sciences Division

