AOAC INTERNATIONAL 134th Virtual Annual Meeting & Exposition

20 VIRTUAL AWARDS CEREMONY

Monday, September 14, 2020



HARVEY W. WILEY AWARD

PRESENTED TO:

DAVID C. WOOLLARD, Palmerston North, Milson, New Zealand HARVEY E. INDYK, Waitoa, New Zealand



AOAC INTERNATIONAL proudly recognizes **DAVID WOOLLARD** and **HARVEY INDYK** as recipients of the 2020 Harvey W. Wiley Award, the Association's highest honor for lifetime scientific achievement. They are being recognized for their many contributions to analytical chemistry.

The two scientists have collaborated extensively to develop advanced methods for analyzing vitamin micronutrients and proteins in infant formula and other dairy-based foods. Some of their pioneering techniques include applying high-performance liquid chromatography platforms to micronutrient analysis, applying inductively coupled plasma for multi-element analysis, and adopting optical biosensor technology to analyze micronutrients and milk proteins.



Many of the validated methods they have developed are widely used internationally and are reference methods within international standards organizations, including AOAC INTERNATIONAL, ISO, and Codex. Their collaboration has produced three AOAC *Official Methods*SM, 38 peer-reviewed articles, and nine book chapters. Indyk and Woollard have also separately published an additional 43 and 32 papers, respectively.

Woollard, a former New Zealand government scientist, technical manager and consultant for several commercial laboratories, has developed countless methods in food and dairy science during his career and has served as an expert reviewer for numerous analytical science journals, including the *Journal of AOAC INTERNATIONAL*. An active member of AOAC since 1984, Woollard has served as member of the AOAC Official Methods Board and a member of the Expert Review Panel for AOAC SPIFAN Nutrient Methods and dietary supplement testing. Woollard received a Fellow of AOAC INTERNATIONAL Award in 1999.

Indyk currently works part-time as a senior research scientist at Fonterra Cooperative Group in New Zealand, where his leadership was credited with creating a world-class micronutrient testing laboratory. An AOAC member since 1992 and a regular expert reviewer for the *Journal of AOAC INTERNATIONAL*, Indyk has received numerous AOAC awards, including Expert Review Panel Member of the Year in 2012 and 2015, AOAC Method of the Year in 2017, and Fellow of AOAC INTERNATIONAL in 2020, he was awarded the Officer of the New Zealand Order of Merit for his services to analytical chemistry and the dairy industry.

The Harvey W. Wiley Award is presented each year to a scientist or group of scientists who have made an outstanding contribution to analytical methodology in an area of interest to AOAC INTERNATIONAL. The award consists of US\$5,000, an award plaque, and reimbursement of travel expenses incident to attending the AOAC INTERNATIONAL Annual Meeting and Exposition.

HARVEY W. WILEY SCHOLARSHIP AWARD

PRESENTED TO:

NYSSA HEWITT, University of Waikato, New Zealand



NYSSA HEWWITT, recipient of the 2020 Harvey W. Wiley Scholarship, is a graduate student at the University of Waikato, New Zealand.

Hewitt was selected based on her passion for analytical science, as demonstrated by her educational trajectory and her current master's degree research project on the structural determination of an unknown novel natural compound.

Hewitt was raised in Morrinsville, New Zealand, and credits a "fantastic" high school teacher for inspiring her to pursue chemistry. Following high school, she earned a Bachelor of Science (Technology) at the University of Waikato, majoring in Chemistry and minoring in Ecology and Biodiversity. While completing an industry placement at TATA Global Beverages in London, she gained a passion for analytical chemistry, developing methods for the analysis of vitamins in nonalcoholic beverages (e.g., tea and coffee). She was also able to build her skillset in a research and development laboratory setting.

Returning to New Zealand for her final undergraduate year, Hewitt worked part-time in a commercial laboratory analyzing various water samples (e.g., environmental water samples and effluent). Subsequently, she returned to research at the University of Waikato, working with numerous industries on a range of matrices (e.g., bee products and plant material). An industry she worked with during this period resonated with her interests in the pharmaceutical industry and was instrumental in the design of her current master's research project.

The Harvey W. Wiley Scholarship (US\$1000) is awarded to an upper-level undergraduate or graduate student to encourage and assist studies in the analytical sciences.

FELLOW OF AOAC INTERNATIONAL

PRESENTED TO:

RONALD L. JOHNSON, bioMérieux, Inc., Saint Peters, Missouri, USA



AOAC is proud to present a 2020 Fellow Award to **RONALD JOHNSON**, senior scientific affairs advisor in the Americas Industry division of bioMérieux. In previous roles at bioMérieux, he served as director of Validation Services, Global Product manager and senior staff scientist in R&D. Johnson has more than 41 years of combined experience in industry and clinical diagnostics and has presented scientific findings at national and international scientific associations, workshops, and symposia.

Johnson is a past-president of AOAC INTERNATIONAL and was a member of the AOAC INTERNATIONAL Board of Directors from 2005-2018. He is also past-chair of the AOAC Research Institute Board of Directors and the Research Institute Advisory Council. His contributions to AOAC include serving in many volunteer roles in the AOAC methods programs since the 1990s, including associate referee and study director for more than 20 *Official Methods of AnalysisSM* (OMA) collaborative studies and more than 50 *Performance Tested MethodsSM* (PTM) validation studies.

Johnson has been extensively involved in the ongoing process to optimize the AOAC PTM and OMA programs for validation of test kits and rapid assays. He was a member of the AOAC task force that spearheaded the harmonization of AOAC PTM and OMA programs and continues to be a passionate advocate for global harmonization of test kit validation guidelines. He was a member of the AOAC International Stakeholder Program on Alternative Methods (ISPAM) and continues to collaborate on the ongoing development of harmonized internationally accepted standard validation schemes for microbiological analytical methods for food and environmental testing. He is currently a member of the AOAC Cannabis Analytical Science Program (CASP) microbiology working group and the AOAC Research Institute Advisory Council.

Johnson has authored and coauthored numerous papers and methods. He is the recipient of several AOAC awards, including AOAC Study Director of the Year in 2005 and 2009. In 2014, he received two AOAC Multi-Laboratory Study of the Year awards.

In the Supplement Safety Compliance Initiative (SSCI) for the dietary supplement industry, Johnson is a member of the Analytical Testing Working Group whose charter is to develop a guidance document that defines analytical testing requirements to meet SSCI standards.

Johnson earned a Bachelor of Science degree in Biology and a Master of Business Administration from Lindenwood University in Saint Charles, Missouri, USA.

LAWRENCE H. PACQUETTE, Abbott Nutrition, Columbus, Ohio, USA



A recipient of the 2020 Fellow Award, **LAWRENCE PACQUETTE** is a research scientist at Abbott Nutrition. His research involves method development and publication of scientific papers related to measuring essential minerals, heavy metal contaminants, and elemental speciation in infant formula and raw ingredients. Most of this work has been presented at AOAC meetings and invited talks.

Pacquette's first research assignment at Abbott Nutrition was to develop a method for the determination of selenium in infant formula using hydride generation atomic fluorescence spectrometry. A few years later, he worked with inductively coupled plasma-mass spectrometry to develop more sensitive mineral methods at Abbott. Some of these mineral methods achieved AOAC *Official MethodsSM* status (AOAC Methods **2012.14**, **2011.19**, and **2015.06**). The latter two methods are currently Codex Alimentarius Commission Type II dispute resolution methods, as well as ISO/IDF methods.

Pacquette attended his first AOAC meeting in 2010 and became a member in 2012. He served on working groups for both the AOAC Stakeholder Program on Infant Formula and Adult Nutritionals (SPIFAN) and the Stakeholder Program on Strategic Food Analytical Methods (SPSFAM). He also served as a co-study director and co-author for the multilaboratory testing studies for AOAC Final Action Method **2015.06**. In addition, he is an active member of the AOAC Metals Subgroup and Membership Committee.

Pacquette earned a PhD in Analytical Chemistry at the University of Iowa (Iowa City, Iowa, USA). His graduate school research in laser-based atomic spectroscopy techniques led him to his current career at Abbott Nutrition.

SIDNEY SUDBERG, Alkemist Labs, Garden Grove, California, USA



A recipient of the 2020 Fellow Award, **SIDNEY SUDBERG** is a natural products scientist with emphasis on the discipline of pharmacognosy, the study of medicinal natural products, programming of pattern recognition software for visual data analysis as applied to high-performance thin-layer chromatography for botanical identity as well as statistical analysis of both quantitative and qualitative data.

After many years as a clinician, Sudberg combined his clinical knowledge and chemistry background to found Alkemist Labs, an independent contract analytical testing and research laboratory respected for its botanical testing expertise. He is the founder, president and CFO.

An active AOAC member since 1997, Sudberg serves on various committees. He is currently chair of the Committee on Statistics and a member of the executive committee of the Technical Division on Reference Materials (TDRM). He also serves on committees for American Herbal Products Association committees and Analytical Laboratories and Standards, and is a technical advisor for the American Herbal Pharmacopoeia.

Sudberg holds a BS in Organic Chemistry from Lehman College of the City College of New York (New York City, New York, USA), an MS in Chemistry from Stony Brook University (Stony Brook, New York, USA) and New York University (New York City, New York, USA). His studies also include classical Chinese acupuncture from the College of Traditional Acupuncture (London, United Kingdom) and chiropractic medicine at the Los Angeles College of Chiropractic (Whittier, California, USA).

KAREN J. SCHIMPF, Abbott Nutrition, Columbus, Ohio, USA



A recipient of the 2020 Fellow Award, **KAREN SCHIMPF** began her career at Abbott Nutrition and is currently a principal research scientist in the Research and Development group. At Abbott Nutrition she has been responsible for the development, validation, and implementation of analytical methods for vitamins and nutrients in nutritional products and biological samples, and for supporting Product Development and Abbot Nutrition laboratories around the world.

Schimpf is an active member of AOAC INTERNATIONAL. She is a member of the Stakeholder Program on Infant Formula and Adult Nutritionals (SPIFAN) expert review panel (ERP), co-chair of the Inositol Working Group, and a member of multiple SPIFAN nutrient-specific working groups. She has co-authored candidate SPIFAN nutrient methods for myo-inositol, vitamin B12, vitamin K1, vitamins A and E, biotin, and carotenoids. Three of these methods, myo-inositol, vitamin B12, and vitamin K1, were approved as AOAC First Action methods. The methods were subsequently adopted as Final Action and recognized by ISO and CODEX as international standards. Schimpf has also conducted and participated in multiple multilaboratory studies, and is a member of ISO TC 34, WG 14 (Vitamins, Carotenoids and Other Nutrients).

Schimpf earned a Bachelor of Science degree in Chemistry from The Ohio State University (Columbus, Ohio, USA).

JOSEPH J. THOMPSON, Abbott Nutrition, Columbus, Ohio, USA

AOAC is proud to present a 2020 Fellow Award to **JOSEPH J. THOMPSON** for his many contributions to the Association. In 1990, Thompson began his 30-year career at Abbott Nutrition, developing methods for mineral analysis still in use today. Later, he became a technical manager overseeing work in the areas of vitamin, proximate, nucleotide, and amino acid analysis.

In 2009, Thompson began his AOAC volunteer activities as a member of the Stakeholder Panel of Infant Formula and Adult Nutritionals (SPIFAN), in which he served as chair for the Working Group on Ultratrace Elements and contributing substantially to the iodine, trace minerals, and choline/carnitine groups. He helped deliver AOAC First Action methods in all these areas. He also served as study director for collaborative studies of AOAC **2011.19** and **2015.06**, both currently Type II CODEX dispute-resolution methods, as well as ISO/IDF methods.

Thompson graduated with a Ph.D. in Analytical Chemistry from Iowa State University (Iowa City, Iowa, USA), where he worked with two pioneers in analytical spectroscopy, Velmer Fassel and Robert (Sam) Houk. Thompson also spent 4 years on the faculty at Ball State University (Muncie, Indiana, USA) as an assistant professor of Chemistry.

JUPITER M. YEUNG, Nestlé Nutrition (Retired), Fremont, Michigan, USA



AOAC is proud to present a Fellow Award to **JUPITER YEUNG** for his many contributions to the Association. Yeung has been highly active in supporting AOAC food allergen activities since the inception of the food allergen portfolio. He co-chaired the first AOAC Presidential Task Force on Food Allergen more than 20 years ago, then the Food Allergen Committee, and currently co-chairs the Food Allergen Community. He also served as co-chair for the International Stakeholder Panel on Alternative Methods (ISPAM) Working Group on Allergens, overseeing development of *Standard Method Performance Requirements* (SMPRs®) for milk, egg, peanut, etc. He was a member of AOAC expert review panels for various allergen ELISA methods. Under his leadership, food allergen activities have become a mainstay of AOAC Annual Meetings.

A member of AOAC since 2001, Yeung was a recipient of the 2015-2016 Award in Recognition of Technical and Scientific Excellence.

The Fellow of AOAC INTERNATIONAL Award recognizes the dedication of the volunteers who serve the Association.

AWARD IN RECOGNITION OF TECHNICAL AND SCIENTIFIC EXCELLENCE

PRESENTED FOR:

AOAC Working Group on Veterinary Drug Residues: Standard Method Performance Requirements for Screening and Identification Method for Regulated Veterinary Drug Residues in Food: AOAC SMPR® 2018.010

Working Group Chair:

JOE O. BOISON, EJ Consultancy & University of Saskatoon (Professor), Saskatoon, Canada



Working Group Members:

Belisario Acevedo, Haejung An, Astutva Anand, Eylem Aydin, B.J. Bench, Sneh Bhandari, Scarlett Biselli, Louis Bluhm, Walter Brandl, Amy Brown, Sharon Brunelle, Julie Brunkhorst, Thomas Burnett, Anna DenielaCatalano Puma, Niladri Chatterjee, Jo Marie Cook, Sara Cunha, Els Daeselerie, Marcel De Vreeze, Thierry Delatour, Liys Desmayanti, Khalil Divan, Robert Donofrio, Aurelie Dubois, Sarah Edwards, Stefan Ehling, Jay Gandhi, Ed George, Dipankar Ghosh, Keith Griswold, Thomas Gude, Mohamed Hamad, Steve Holroyd, Ronald Hunter, Dominique Hurtaud-Pessel, Katherine Hyland, Olutosin Idowu, George Joseph, Maki Kanda, David Kennedy, Erik Konings, Joseph Konschnik, Scott Krepich, Anoop A. Krishnan, Cheryl Lassitter, Dan Li, Siheng Li, Alex Liu, Steve Lunetta, Bozena Lusiak, Lifu Ma, Meena Mariappan, Katerina Mastovska, Eimear McCall, Pierre Metra, Alfredo Montes-Nino, Richard Myers, Yasutaka Nishiyama, Oliver Ou, Salvatore Parisi, Ujwal Patil, Rolando Perez, Melissa Phillips, Tom Phillips, John Reuther, Catherine Rimmer, Alejandra Rodriguez, Alejandra Rodriguez-Haralambides, Sarah Ruiz, Lorraine Scheller, Carl Schwarz, Yiyin Shi, Jeffrey Shippar, Jayant Shringarpure, Bryn Shurmer, Fernando Silva, Bernadete Spisso, Cheryl Stephenson, Jack Stevens, Hari Senthil Kuma Subramaniam, Hiroko Suzuki, John Szpylka, Richard Ten Eyck, Wiclef Kagisha Theogene, Marina Torres Rodriguez, Son Tran, Sherri Turnipseed, Tomasz Tuzimski, Eric Verdon, Daljit Vudathala, Lindell Ward, Paul Winkler, Ronald Winter, Jon Wong, Changging Wu, I-Lin Wu, Sudhakar Yadlapalli, Charles Yang, Dan-Hui Yang, Jinchuan Yang, Jupiter Yeung, Wendy Yuan, Zhenfeng Yue, Hui Zhao

The AOAC Working Group on Veterinary Drug Residues operated under the former AOAC Stakeholder Panel on Strategic Food Analytical Methods (SPSFAM) to develop *Standard Method Performance Requirements* (SMPRs®) for globally regulated veterinary drug residues. The working group reviewed the maximum residue limits (MRLs) and tolerances of more than 200 veterinary drug residues used in dairy, meat, poultry, and seafood. The final SMPR for more than 170 compounds and their regulated markers is intended for use in routine surveillance for GMP compliance using a liquid chromatography-tandem mass spectrometry (LC-MS/MS) methodology that can screen for and identify regulated veterinary drug residues with established MRLs in bovine milk, muscle, and fat; chicken muscle, skin with adhering fat, and eggs; and fish.

All working group members will receive the award, and publicly receiving the award on behalf of the group is Joe O. Boison.

The Award in Recognition of Technical and Scientific Excellence recognizes a team, stakeholder panel, or working group that has published a major document or other body of work that demonstrates a unique or particularly noteworthy level of technical and scientific expertise.

EXPERT REVIEW PANEL (ERP) OF THE YEAR

PRESENT FOR:

Sugars and Fructans Methods

GEORGE JOSEPH, AsureQuality NZ, Auckland, New Zealand; Chair of ERP



ERP Members:

Philip Haselberger, Abbott Nutrition; Ankur Kumar, Government of India; Sookwang Lee, U.S. Food and Drug Administration; Roberto Molteni, Italian Ministry of Agriculture; Andrew Rousch, Eurofins US; Jack Stevens, General Mills; John Szpylka, FSNS; Nancy Thiex, Consultant; Martine van Gool, FrieslandCampina; Tom Vennard, Mead Johnson/Reckitt Benckiser

The AOAC ERP for Sugars and Fructans Methods was formed proactively to ensure that reliable and validated methodology were available to quantify sugars and fructans in animal feed and foods for pets and humans. In an agreement among AOAC, AAFCO, Megazyme, Nestlé, and Thermo Scientific, consensus was reached on AOAC *Standard Method Performance Requirements* (SMPRs®) for Sugars in Animal Feed, Pet Food, and Human Food (AOAC SMPR 2018.001) and Fructans in Animal Feed, Pet Food, and Ingredients (AOAC SMPR 2018.002) for which methods in this ERP are evaluated against. The ERP held its inaugural meeting in September 2018 during which it adopted a sugars method (AOAC **2018.16**) and a fructans method (AOAC **2018.07**). Review and adoption of methods by the ERP address the need for reliable methods to support carbohydrate labeling of foods for pets and animals.

All ERP members will receive the award, and publicly receiving the award on behalf of the group is the ERP chair, George Joseph.

The Expert Review Panel (ERP) of the Year Award recognizes an ERP for achieving and completing significant milestone(s) (e.g., final report, First Action Method, Final Action Method), highlighted by some unique or particularly noteworthy aspect of a review panel report, such as innovative technology or application, breadth of applicability, critical need, difficult analysis, or timeliness. The report demonstrates significant merit as to the scope of the project, diversity of the panel, or an innovative approach to difficult analytical challenges. The report must have been submitted within the last 3 years.

METHOD OF THE YEAR

PRESENTED FOR:

Minerals and Trace Elements in Milk, Milk Products, Infant Formula, and Adult/Pediatric Nutritional Formula, ICP-MS Method: AOAC 2015.06, Final Action

JOSEPH J. THOMPSON and LAWRENCE H. PACQUETTE, Abbott Laboratories, Columbus, Ohio, USA





AOAC Final Action Official Method[™] **2015.06** "Minerals and Trace Elements in Milk, Milk Products, Infant Formula, and Adult/Pediatric Nutritional Formula, ICP-MS Method" was collaboratively studied. "Milk, milk products" was added to the title of the Final Action method because whole milk and several dairy ingredients were successfully incorporated into the collaborative study for the purpose of developing an International Organization for Standardization/International Dairy Federation standard (ISO 21424:2018 and IDF 243:2018). AOAC **2015.06** received First Action status in 2015 and, in 2017, the method received Final Action status. With stakeholder support and as part of an AOAC agreement with ISO, the method entered into the Codex process for adoption as Type II to support the global use of the consensus method. The method addresses a critical analytical need that impacts global trade of infant formula.

The method determines sodium, magnesium, phosphorus, potassium, calcium, iron, manganese, zinc, copper, chromium, molybdenum, and selenium by inductively coupled plasma (ICP)-MS after microwave digestion. Ten laboratories participated in the study, and data from five different model ICP-MS units were represented. Thirteen products, five placebo products, and six dairy samples were tested as blind duplicates in this study, along with a standard reference material, for a total 50 samples. The overall repeatability and reproducibility for all samples met *Standard Method Performance Requirements* put forth by the AOAC Stakeholder Panel on Infant Formula and Adult Nutritionals, with a few exceptions. Comparisons are made to ICP-atomic emission data from a collaborative study of AOAC *Official MethodSM* 2011.19 carried out concurrently on these same samples. The Final Action manuscript is published in the *Journal of AOAC INTERNATIONAL* [*J. AOAC Int.* **101**, 536(2018)].

The Method of the Year recognizes a study and method that demonstrate some unique or particularly noteworthy aspect, such as innovative technology or application, breadth of applicability, critical need, impact, difficult analysis, or special handling required for study materials. All candidates for Method of the Year must have been completed within the past 3 years.

TECHNICAL SERVICE OF THE YEAR AWARD

PRESENTED TO:

BERT PÖPPING, FOCOS - Food Consulting Strategically, Alzenau I Ufr, Germany



BERT PÖPPING was selected for a Technical Service Award because of his outstanding leadership and contributions to the Association. Pöpping is managing director of the strategic food consulting company FOCOS. His company advises technology providers, food manufacturers, start-up companies, not-for-profit organizations, investors, and laboratories on strategic food safety solutions and emerging technologies. Pöpping previously worked as chief scientific officer and director scientific development and regulatory affairs for multinational contract laboratories. He has 25 years of experience in the food testing industry and authored over 75 peer-reviewed publications on topics of food safety analysis, food allergens, food authenticity, validation, and regulatory assessments.

Pöpping serves as scientific advisor to the AOAC INTERNATIONAL Food Authenticity/ Fraud community. He is a member of the editorial board of *J. Food Additives and Contaminants* and *J. Food Analytical Methods*, co-chair of the ILSI Food Authenticity Task Force, and member of the USP Food Ingredients Expert Committee. He is also active in numerous national and international standardization organizations, including CEN, ISO, and several German official method working groups (§64 German Food & Feed Law). He currently serves as president of the MoniQA Association.

SUSAN AUDINO, S.A. Audino & Associates, LLC, Wilmington, Delaware, USA



SUSAN AUDINO was selected for a Technical Service Award because of her outstanding contributions to the AOAC Cannabis Analytical Science Program (CASP) community. Audino is principal at S. Audino & Associates, LLC, and principal at RWD, LLC, and at Executive Quality Management, LLC. She is a chemist/chemometrician and independent consultant to chemical and biological laboratories. As a contractor for accreditation bodies, she assesses laboratories and is an instructor for multiple ISO/IEC standards, including ISO 17025.

In addition to serving as science advisor to AOAC CASP, Audino was a contributing member of the NCIA Guide for Laboratory Testing; is a faculty member of Teachable Medicine; board member of Hood College, Center for Research on Environmental Medicine, and of cannabis/hemp testing laboratories; advisor to Emerald Scientific; , and has been an invited speaker at many domestic and international scientific conferences. She has several patents pending, and is a contributing author to *Cannabis Laboratory Fundamentals* to be published by Springer-Nature.

The Technical Service Award recognizes the dedication and excellence on the part of a volunteer who significantly contributes to AOAC INTERNATIONAL's analytical and technical communities with noted accomplishments relating to his or her area of expertise.

BEST PAPER MANUSCRIPT AWARD JOURNAL OF AOAC INTERNATIONAL

"Critical Factors in Determining Fiber Content of Feeds and Foods and Their Ingredients"

GEORGE C. FAHEY JR., University of Illinois, Urbana, Illinois, USA, Corresponding Author



Method Authors:

Lawrence Novotny, South Dakota State University; Brian Layton, ANKOM Technology Corp; and David R. Mertens, Mertens Innovation and Research LLC

Winner of the Best Paper Award, "Critical Factors in Determining Fiber Content of Feeds and Foods and Their Ingredients" by Fahey et al. was published in the *Journal of AOAC INTERNATIONAL* [J. AOAC Int. Vol. 102(1)].

Fiber is arguably the most challenging of the feed/food components to define and quantify. Few dietary substances have as many functionalities as does fiber. In addition, perhaps no other substance is as important to the microbiome inhabiting the gastrointestinal tracts of animals and humans as fiber is the major food ingested and metabolized by the many bacterial species that constitute the microbiome. Fiber is a heterogeneous mixture of bioactive substances that, when used properly and at appropriate dietary concentrations, can result in positive nutritional and health benefits to the host.

The paper describes each of the major fiber methodologies used today (crude fiber, detergent fiber, total dietary fiber). Factors critical to the successful measurement of dietary fibers are described and information is provided as to how to overcome potential analytical problems with each assay. Also presented are methodological details that, if followed properly, can reduce the considerable variation in fiber concentration values that routinely occur among laboratories. The authors recommend abandonment of the crude fiber method by regulatory organizations and laboratory scientists and, instead, suggest using detergent fiber methods to quantify insoluble dietary fiber and total dietary fiber methods to quantify both insoluble and soluble dietary fibers.

The Best Paper Award recognizes the most outstanding original and creative article published in the peer-reviewed Journal of AOAC INTERNATIONAL in the calendar year.

SPECIAL RECOGNITION AWARD

SAMIR WAHAB, U.S. Pharmacopeia (USP), Rockville, Maryland, USA



AOAC is pleased to present **SAMIR WAHAB** with a Special Recognition Award for 15 years of service as a section editor for the "Drug Formulations" section of the *Journal of AOAC INTERNATIONAL*, overseeing the peer-review process for manuscripts submitted for publication. He faithfully executed his duties in an exemplary manner. Over the years, Wahab has given outstanding guidance and support to all aspects of the *J. AOAC Int.* process and has significantly contributed to the AOAC mission.

Manuscripts submitted for publication in *J. AOAC Int.'s* "Drug Formulation" section included reports of analytical methods used to identify and analyze pharmaceutical ingredients and products, as well as the analysis of chemicals and products related to pharmaceutical excipients and dietary supplements. Wahab participated in AOAC Editorial Board activities and section editor meetings, helping with Editorial Board policies, agreed-on practices for *J. AOAC Int.* editors, guidelines for good manuscript reviewing practices, and logistical and administrative procedures to be followed in the performance of duties.

Wahab earned a BSc from the University of Basra (Basra, Iraq) and his MS and PhD degrees in Chemistry from Georgetown University (Washington, DC, USA).

ANTHONY D. HITCHINS, U.S. Food and Drug Administration-Center for Food Safety and Applied Nutrition (FDA-CFSAN; Retired), Rockville, Maryland, USA



AOAC is pleased to present **ANTHONY HITCHINS** with a Special Recognition Award for his exemplary service as a Section Editor for 22 years. Hitchins has been a member of AOAC since 1987 when he began working for FDA-CFSAN. He has served in a variety of method volunteer roles. In addition to serving for many years as section editor for *J. AOAC Int.*, he has been a member of the Editorial Board, Expert Review Panel (ERP) for Microbiology Methods for Food and Environmental Surfaces, AOAC Stakeholder Program on Agent Detection Assays (SPADA), and the Committee on Membership.

Prior to establishment of ERPs, he was member of the Methods Committee on Microbiology and Extraneous Materials and has served as general referee for Cosmetic Microbiology and Bacillus anthracis. The former refereeship involved editing the *Official Methods of AnalysisSM* chapter on "Cosmetic Methods." Other AOAC volunteer activities included *Peer-Verified Methods* Advisory Group, e-CAM Advisory Committee, and IDF Expert Group liaison. Hitchins became a Fellow of AOAC INTERNATIONAL in 2004. He has been twice awarded as a team member of ERPs of the Year. In 2018, he received the Technical Service of the Year Award.

Hitchins earned a BS in Botany and an MS in Microbiology from University College London (London, United Kingdom) and a Ph.D. in Microbiology from Michigan State University (East Lansing, Michigan, USA).

The Special Recognition Award is presented for exemplary dedication and volunteerism to the Journal of AOAC INTERNATIONAL

AOAC INTERNATIONAL/EUROFINS FOUNDATION "TESTING FOR LIFE" STUDENT AWARD

AOAC INTERNATIONAL/Eurofins Foundation is pleased to present the 2020 "Testing for Life" Student Award to:



STEPHANIE BISHOP, University of British Columbia, Okanagan, Canada

Stephanie Bishop is a recent PhD graduate majoring in Analytical Chemistry. Her research explores the effects of different environments and ecosystems on cyanobacteria growth and metabolism. Bishop's analysis of traditional foods in ecosystems containing cyanobacteria in southern Peru and northern Chile revealed toxins suggesting that the Andean highlands may be undergoing environmental contamination from anthropogenic activities and climate change. Her findings generated national media interest, and her research was featured in more than a dozen news articles and video clips from news sources such as CBC and Global News.



SHIMIN CHEN, University of Nebraska, Lincoln, Nebraska, USA

Shimin Chen, a native of China, is a graduate research assistant (PhD) majoring in Food Science and Technology at the University of Nebraska. Her research brings together advanced techniques, including genomics and proteomics to solve critical food safety questions related to the management of food allergens. Chen's work on determining cashew protein in oil matrices, called "pioneering" by one Testing for Life Award judge, is particularly significant because cashew allergy is one of the most prevalent and potent tree nut allergies. Oil roasting is commonly used in tree nut processing, raising the potential risk of allergen cross-contact associated if the oil is reused for different products.

XINGYI JIANG, Florida State University, Tallahassee, Florida, USA



Xingyi Jiang is a PhD student majoring in Nutrition and Food Science. Her research is focused on using food immunochemistry as a tool to improve food safety. Jiang's projects are focused on standardizing highly sensitive enzyme-linked immunosorbent assays (ELISA) for detection of food adulterants and food allergens and to authenticate meat species. These immunoassays have the potential to fight food fraud, support compliance with food regulations, and decrease food recalls.



ISAAC RUKUNDO, University of Nebraska, Lincoln, Nebraska, USA

Isaac Rukundo is a PhD candidate majoring in Food Science and Technology. A native of Uganda, he recognized that new small and portable near-infrared (NIR) spectrometers could have an application in developing countries that have been slow to adopt this technology due to cost, lack of awareness, and lack of training. His research provides a framework for assessing the performance of these handheld NIR devices for in situ monitoring of food authenticity throughout the supply chain and to facilitate tracing the source of contaminated foodstuffs. Rukundo plans to work as a science educator at a university or an international agency focused on food and agriculture.



ARISTEIDIS TSAGKARIS, University of Chemistry and Technology, Prague, Czech Republic

Aristeidis Tsagkaris is a PhD candidate majoring in Food Analysis and Nutrition. A native of Greece, Tsagkaris has developed a smartphone-based assay for screening neurotoxic organophosphate and carbamate pesticides in fruits and vegetables. This screening method can be performed on-site since the paper assay is embedded into a lab-on-a-chip prototype device able to inject samples and necessary reagents on-demand. This cost-efficient (0.30 euro/per device) and rapid (results within 10 minutes) method can be used as a complementary screening tool to assist instrumental analysis by reducing the samples arriving in the lab.

The AOAC INTERNATIONAL/Eurofins Foundation award recognizes up-and-coming scientists for their innovative work in life science testing. The award, supported by the Eurofins Foundation, is designed to encourage student researchers who are advancing basic or applied science in analytical or molecular testing for food safety, food security, food defense, food authenticity, or health and environmental protection.

MEMBER SERVICE AWARD

2020 MEMBER SERVICE AWARDS

MEMBERS FOR 25 YEARS

Lori B. Allen Ken Burgener Russell Chong Norma R. Hill Prabhakar Kasturi Ronald Niemeijer John Reuther Akemi Yasui

MEMBERS FOR 10 YEARS

Edorta Aranguena Paul J. Azzopardi, Jr. Christian Blyth Julie Brunkhorst Michael J. Collins. Jr. **Ted Collins** Mike Conway Marcial Cordova Raquel Teresita De Guzman Jason Dobranic **Catherine Donnelly** Shirley A. Elliott German Espinosa-Arciniega **Christiane Kruse Faeste** Luc Gagnon Thomas A. Grace Heather L. Harris Matt Johnson Simon M. Klein Alan Laffin Tim Lawruk John Paul Lee **Epigmenio Lopez Aceves** Susan Marie McCarthy Adrienne McMahon Robert Joseph McMahon Josh Messerly Kei Morofuji Freddy Ortiz-Colon Bruno Parente Bhavna Parmar **Chetan Patel** Mina Pena Ed Philander **Gloria Reves Robles** Travis Lee Roberts Kenneth Rosnack Thomas Scott **Robert Soral** Benjamin J Southwell Kathy V. Thurmond **Danrey Toth** Marcela Oriana Valenzuela Stephen Walford

Brian Keith Ward Toyoaki Watanabe Charles E. Winstead Wondu Wolde-Mariam Doug Wolfe Jinchuan Yang Garrett Zielinski

MEMBERS FOR 5 YEARS

Olusegun Ajayi Mousaied S. Al Shieshakly Margarita Alfaro Hasmukh Amin **Gregory Andol** Michael Baim Glenn Balke Robin Bechanko David W. Benefield **Rodney Morris Bennett** David Blank David Bosco Marc Boualam Keren Breiterman Shannon Bullard Joe Bustos Jesse Calvillo **Richard Carlson Nicolas Cartier** Evan Chaney Liang Cheng-Zhu **KiYul Cho** Abhiiatha Satish Chowduvalli Javaregowda Mike Clark Jerod K. Corbin Hannah Crum Gregory Danzeisen **Clay Detlefsen** Paul Dewsbury Marc A. DiBartolomeo Valentine Digonnet Lih-Wen Ding Frans Duynstee Ming Chih Fang **Barry Fanning Ranil Fernando** Maria Laura Foschiatti Robert Fotheringham Simon Frederic **Bichard Fussell** Asiri Galhena Jesus Maria Garcia Sanchez Marco Garcia Mark Gersh Steven Grav Joseph Hirsch

Christopher Holmquist Adam Horkey **Cristian Ilea** Holly E. Johnson Rhonda D. Jones **Rick Junk** Aditva Kelkar Mark Kinderman Varun Chandra Koneru Michalis Konstantinou Kelli Kottenbrock **Rachid Kouaouci** Karen Krasznavolgyi Lilian Kuster Adam Ladak Shellev K. Lankford Alison J. Larsson Barbara Lee Soo-Kwang Lee Keith Lemp Rocio Leyva William C. Lionberg, Jr. Ya Liu Edwin Lowe **Glenys MacRae Rodney Anthony Major** Shahanshah Manzoor Chaim Yosef Mariategui-Levi Vijay Marry Juan F. Martino Heidi Marzen Leighanna M. Massev Junichi Masuda Lawrence Mayhew Marv T. McBride Linda Messick Aikaterini Michailides Martin Michaud Jill Moline Renee J. Morelli Mario H. Muñoz Syed Najeemuddin Hiroki Nakae Brian E. Nelson Steven Ottersberg Athanasios Papastathopoulos Salvatore Parisi John Pascale **Rajesh Patel Erik Pearson** Curtis S. Phinney Lisa Price Srecko Prodanovic Jeanne I. Rader Vijava Rajendram **Dominique Ramirez**

Philip Randall B R S Rao Brad J. Rauch Luisa Maria M. Reina Mauricio Restrepo Jose Riera John Robinson **Mike Rodriguez** Natalia Rudnitskava **Paulette Rueter** Setsuko Sakao Alexandra Salamanca Andre Santos **Bryan Schindler** Dana Schmieg Scott Schreiber **Neil Andrew Shepherd** Allen Silliker Gurmit Singh Sean Singh Umed Singh Brett Smith J. Scott Smith Jeroen Soest **Daniele Sohier** Dominique Sotty Jessica Spears Andrae Spencer Gary Swanson Hajime Teramura Abraham Thomas James Thomas Melissa M. Thompson Jessica Tremain Aaron Uesugi Takanori Ukena Miquel Villa **Rav Wakefield Trev Watkins** Alanna A. Watts Keith A. Wegner Lon Louis Weiss Roy Weng Sarita R. Wheeler **Timothy Wheeler Rachel Whitaker** Gordon L. Whitbeck **Raymond Allan Williams** Diana Wong Dan-Hui Dorothy Yang Mohamed Youssef Wendy Yuan Chen Zhang Hui Zhao Sam Zipperer

AOAC INTERNATIONAL AWARDS PROGRAM

Recognizing Analytical Excellence

AWARDS

AOAC INTERNATIONAL Awards Program

The AOAC INTERNATIONAL Awards Program recognizes significant contributions to AOAC and the analytical science community.

AOAC presents these awards at its Annual Meeting each fall, providing worldwide recognition to the recipients. Through your nominations, the AOAC INTERNATIONAL Awards Program can continue to recognize those individuals who are deserving of this honor.

The Harvey W. Wiley Award for the Development of Analytical Methods

AOAC's most prestigious scientific award is presented to a scientist (or group of scientists) who have made an outstanding contribution to analytical method development in an area of interest to the Association. Application deadline is January 31, 2021.

Fellow of AOAC INTERNATIONAL

Recognizes the dedication and commitment of members who have served the Association with distinction. Application deadline is February 15, 2021.

For More Information

For eligibility and nominations guidelines, ncluding nomination forms and deadlines contact:

AOAC INTERNATIONAL

Membership and Meetings

2275 Research Boulevard, Suite 300 Rockville, MD 20850-3250, USA

Phone: +1 (301) 924-7077 (Worldwide)

Fax: +1 (301) 924-7089

Toll Free within North America: +1 (800) 379-2622

E-mail: members@aoac.org

Website: www.aoac.org



In Food & Agriculture We Set the Standard

Nominate a colleague for 2021!