

COMMITTEE MINUTES

STANDING COMMITTEES

Food Protection Trends Management Committee

Members Present: Andy Hwang, Faith Critzer, Catherine Cutter, Francisco Diez, Hari Prakash Dwivedi, Alejandro Echeverry, Veny Gapud, Susan McKnight, Amie Minor, Randall Phebus, Christina Wilson, and Guodong Zhang.

Board/Staff Present: Mickey Parish, Linda Harris, Donna Bahun, and Lisa Hovey.

Visitors Present: Christine Bruhn, John Bruhn, Ben Chapman, Caroline DeWaal, Peyman Fatemi, Kirsten Howe, Ian Jenson, Ramin Khaksar, Lindsay Nix, and Jennifer Quinlan. **Number of Attendees:** 24.

Meeting Called to Order: 2:00 p.m., Sunday, July 31, 2016.

Minutes Recording Secretary: Faith Critzer.

Old Business:

- Minutes from 2015 Committee meeting were reviewed and approved by the Committee members.
- Status of 2015 recommendations to the Executive Board
 - Recommend to the Board to appoint Faith Critzer as the Vice Chair of *Food Protection Trends* Management Committee. Board Response: Approve.
 - Recommend to the Board to reappoint Catherine (Cathy) Cutter as the *FPT* Scientific Editor a four-year term. Board Response: Approve.
 - Recommend to the Board to check with Allen Pre-publication Reference Checker to check references in journal articles submitted for publication. Board Response: IAFF staff to research the cost and see if it can be used for both *JFP* and *FPT*. Use of the correct "EndNote" template can also help.

Update: It isn't feasible for Allen Press to create an Endnote template.

- Recommend to the Board to redefine in the IAFF Bylaws Section V, Part C the definition of *FPT* to include words such as applied research, information, and member news. Board Response: *FPT* Editor and staff to look into redefining this section of the Bylaws. Then a recommendation would be made to the Constitution & Bylaws Committee to consider the change.

Update: Current Bylaws: *Food Protection Trends* shall be the applied technical publication of IAFF and the *Journal of Food Protection* will be the scientific research publication.

Proposed change presented to the membership: *Food Protection Trends* shall be the applied technical publication of IAFF and will include applied research articles, general interest articles, food safety information and member news. The *Journal of Food Protection* will be the scientific research publication.

Friendly amendment (to be proposed at the Business Meeting):

- The Association shall have two journals: *Food Protection Trends* and the *Journal of Food Protection*. Both publications shall include peer-reviewed, scientific, applied and technical research and review articles. *Food Protection Trends* shall also publish general interest articles, food safety information and member news.
- The Committee agreed to the friendly amendment. It will first be discussed by the Bylaws Committee before voting on by the membership at the Business Meeting.
- Recommend to the Board to develop a survey to determine if *FPT* and *JFP* are meeting the needs of the membership. Board Response: IAFF Staff will look into the cost and determine if the survey should be jointly conducted for both journals or if a separate survey for each is needed. It will need to be determined if the survey has a readership or publishing focus.

Update: This has been delayed because it wasn't appropriate to survey membership on both *FPT* and *JFP* due to extensive changes occurring with *JFP*. This topic was carried forward in a discussion summarized in New Business.

- Recommend to the Board to determine the numbers and usage of articles downloaded from IAFF website by users. Board Response: IAFF Staff will work with the Web developer to obtain additional statistics.

Update: We don't have a current metric for this, but we can get this information going forward. Next year we will have this information to report to the *FPT* Management Committee.

New Business:

1. Executive Board report: Mickey Parish, IAFF Vice President.
 - a. 4,100 IAFF members with 3,400 participants in this year's meeting and 175 exhibitors, both records for the organization.
 - b. Board will meet on Thursday to review all recommendations from *FPT* Management Committee.
2. Scientific Editor report: Catherine Cutter.
 - a. 2015 was very production 42 manuscripts were submitted, with 32 being accepted.
 - b. In 2016, 11 papers have been submitted, with four being accepted/3 rejected and the remainders are still under review or revision by authors.
 - c. Cathy Cutter has been inviting papers for submission after Annual Meeting and this may be a driver for increased.
 - d. A higher rejection rate was noticed, three of 11 submissions in 2016. This was driven by an increased number of members on the editorial board, with an increased breadth and depth of expertise

3. A discussion to create an award to recognize a publication in *Food Protection Trends* occurred. The discussion focused on what the appropriate metrics are to recognize the publication. The *FPT* Management Committee recommended that data be collected with respect to (1) most viewed; (2) most downloaded; and (3) most cited manuscripts in order for the us to determine what the appropriate metric(s) are to recognize one publication in *Food Protection Trends*. A formal recommendation will be made to the Executive Board to collect these data for six months and reported back to *FPT* Management Committee, in which time the Committee will hold a mid-year conference call to determine the appropriate course of action for creating an award to be given at the Editorial Board Reception at the 2017 IAFP Annual Meeting.
4. Improperly formatted manuscripts are still an issue with submitted manuscripts. It was discussed that the fines associated with improperly formatted manuscripts be instituted to address the problems. This will be a subjective call by Cathy Cutter and Donna Bahun. A multi-prong approach will be instituted which includes: (1) revised instructions for authors; (2) emphasis in acceptance letters; and (3) an author acknowledgment that formatting is correct during submission online. We will also point out issues associated with the use of EndNote or other citation management software in the instructions for authors.
5. A discussion occurred regarding surveying IAFP membership regarding *FPT*. The Management Committee felt that this would be appropriate and recommended that a subcommittee be formed to determine the objectives for a survey of IAFP members regarding *Food Protection Trends*. Jennifer Quinlan, Ben Chapman, Francisco Diez-Gonzalez, Faith Critzer, and Cathy Cutter will serve on this subcommittee. A formal recommendation will be made to the Board to allow *FPT* Management Committee to create a survey tool to be administered to IAFP membership.
6. A recommendation was made to engage the young scholars partnering with the Student PDG, Webinar subcommittee, *JFP* Management with *FPT* Management to advise them on publishing scientific manuscripts. The members felt that this would be a worthwhile approach and will contact the other partners to see if they are also interested.
7. A mid-year conference call will be held in 2017 (roughly January or February) with *FPT* Management Committee to discuss topics such as *FPT* publication award and survey tool.

Recommendations to the Executive Board:

1. *FPT* Management Committee would like to recognize one publication from *Food Protection Trends* at the Annual Meeting Editorial Board Reception in 2017. It is recommended that data be collected with respect to: 1) most viewed; 2) most downloaded; and 3) most cited manuscripts in order for the *FPT* Management Committee to determine what the appropriate metric(s) are to recognize one publication in *Food Protection Trends*. It is recommended that this data be collected for six months and reported back to *FPT* Management Committee during a mid-year conference call, at which time they will determine the

appropriate course of action for creating an award to be given during the Editorial Board Reception at IAFP 2017.

2. It is recommended that a survey tool be developed for the IAFP membership with the broad goal of obtaining feedback with regard to *Food Protection Trends*. *FPT* Management Committee has created a subcommittee tasked with creating this tool and presenting it for approval to the *FPT* Management Committee during a mid-year conference call, and, if approved, to the IAFP Executive Board.

Next Meeting Date: July 9, 2017 in Tampa, Florida.

Meeting Adjourned: 3:27 p.m.

Chairperson: Andy Hwang.

Journal of Food Protection Management Committee

Members Present: Vijay Juneja, Sean Leighton, P. Michael Davidson, Joseph Frank, Lauren Jackson, Elliot Ryser, Andy Hwang, Alejandro Castillo, Barbara Ingham, Manan Sharma, Sherri McGarry, Xiangwu Nou, James O'Donnell, Laurie Post, Abani Pradhan, Siddhartha Thakur, and Hyun-Gyun Yuk.

Board/Staff Present: Neil Bogart, Linda Harris, Kalmia Kniel, Alejandro Mazzotta, Mickey Parish, Christina Wilson, Lisa Hovey, Didi Loynachan and David Tharp.

Visitors/Guests Present: Daniel Bendjouia, Peter Bodnaruk, Catherine Cutter, Atin Datta, Brian Himelbloom, Stephen Kenney, John Larkin, Judy Luther and Guodong Zhang.

Number of Attendees: 36.

Meeting Called to Order: 10:03 a.m., Sunday, July 31, 2016.

Minutes Recording Secretary: Sean Leighton.

Old Business: Committee reviewed minutes from 2015 *JFP* Management Committee meeting. A motion was approved to accept the 2015 minutes, as written. No edits were needed.

New Business: The Committee reviewed agenda and approved the meeting agenda.

The meeting opened with a vote to elect the incoming Vice Chair. Two candidates were up for election by all present members. Sean Leighton was elected Vice Chair for 2017.

Mike Davidson provided the *Journal's* Scientific Editors' Report. Highlights include that Vol 78 (2015) included 2,312 pages and 302 articles (295 research articles). By comparison, Vol 77 published in 2014 contained 2,232 pages and 295 articles, which included 290 research papers and five review papers. The average length of time between receipt of manuscripts and their publication remained the same in 2015 compared to 2014. Maryland was the most published state within the USA. The editorial board consisted of 159 members, with 46 representing non-USA countries. *Ad hoc* reviewers were instrumental in the review process. Ninety-one accepted but unpublished manuscripts are currently in queue. While it appears as though the back-log has increased, in reality it is a timing issue, not a back-log issue. Dr. Davidson concluded by stating that the "Most Cited Publication" award was given again this year. A "most-downloaded publication" award was also given. For more details about the *Journal* in 2015, please see the Scientific Editors' report and the Administrative Editor's report prepared by Didi Loynachan.

Didi mentioned that a \$2,500 open access fee for members and \$3,000 for non-members was approved by the Board and implemented. Nine authors have used this option so far. Our open access policy has been better defined and will be posted on the new website, once it is ready to go up. Indices will no longer be published beginning with this year's volume, relying on keyword searches instead. ORCID can be used to sign-in for authors. The first time ORCID is used to sign in, it will be linked to Allen Track. A document delivery service was also used, entitled Copyright Clearance Center (CCC) Document Deliver Service. This service was acquired from Infotrieve and will continue to provide journal articles through the CCC. 2015 impact factor (IF) was 1.6, total cites are 11,888, the five-year IF is 1.963 and the Immediacy Index is 0.212. A question was asked if the Impact Factor change was significant enough to warrant a formal discussion. Judy will visit in her presentation. A question was asked about subscription numbers. We continue to see a decrease in institutional subscriptions. At one point, we are at 1,500–2,000 and this level continues to go down. One reason that David Tharp mentioned is due to the varying and multiple access points online. This is a trend observed in almost all journals as libraries cut back, etc.

A Scientific Editor search will be conducted this year to replace Dr. Mike Davidson (due to retirement). Dr. Davidson shared some thoughts on how much he has enjoyed his time as Scientific Editor. David Tharp announced the deadline for applications would be September 12, 2016, which is similar to the time frame deployed in the last search process (55 applicants were received last time). A Selection Committee will need to be established to receive and review all submitted information. A teleconference will be held with IAFP and the Selection Committee to decide on the chosen candidate to join as a Co-Editor. The decision will be made and offer extended by the end of October, with the new Editor receiving articles in December 2016. It was proposed that six members will be on the Selection Committee, including the Vice Chair. A request was made for volunteers to fill out the Selection Committee, with one representative from Europe and one from the USA desired. Two volunteers were identified as Sherri McGarry and Xiangwu Nou. Vijay Juneja (Chair) mentioned that he has a couple of names of professors that he will be approaching to represent academia. Elliot Ryser will represent the scientific editors on this Committee.

Judy Luther from Informed Strategies presented a "Progress Report on *JFP*" to the Committee. The objectives of this effort were to (1) Improve the ability of IAFP to better meet the needs of authors, editors and readers; (2) Provide metrics that can recognize the value of published research to multiple communities; (3) Connect the content with global research to increase visibility and Impact Factor of *JFP*; (4) Work with publishing partners who can support ongoing innovation. Ingenta was satisfactory initially, but a change was needed, and other options exist in the market. The enhanced publication process was focused on four areas: Editorial, Production, Platform, and Metrics.

EDITORIAL: How methods papers are identified has been a topic of discussion. Having the word "methods" in the keyword in the abstract would be a good idea to drive consistency moving forward. This will influence discovery via Google Scholar and other discovery methods. With the new system, we can offer a "special collections" link on the web site. This allows us to gather and organize articles on a key topic and feature them for readers. PRODUCTION: Articles

will be released as they are completed and reviewed as opposed to on a fixed cycle. If we invoice on acceptance, we could receive payment at the same time as production. Didi mentioned that when you find an article on the new site, it will automatically recommend other articles. Barbara Ingham mentioned this was a really nice feature from the academic/author perspective. A process for expediting articles that are time sensitive is being considered. Scientific editors could identify papers that are time sensitive, or authors could request a particular paper be considered for expedition. ORCID identifier is critical for international access. CrossRef will automatically match and link an author's articles. Cited by linking means when you are reading, you can see other articles that reference it. It is recommended that *Journal of Milk and Food Technology* articles from 1967 to 1976 be accessible online at no cost to subscribers. PLATFORM: Consolidating with Allen Press, which uses Atypon technology in their Pinnacle platform. HighWire has new investors, with two of the larger customers leaving (Sage Publishers has gone to Atypon and Oxford University Press has moved to SilverChair). Consolidation of the workflow allows for an expedition of some of the enhancements we've discussed. A new *JFP* test site was shared with the Committee and multiple innovations highlighted. METRICS: *JFP*'s Impact Factor is 7th highest in competing journals. ASM decided not to post its Impact Factor this year in an attempt to drive the right behavior behind the use of an impact factor. It is ASM's belief that the IF not be used to rate a journal and that it has become over-dominant as a metric. *JFP*'s impact factor has fluctuated between 1.5 and 2 over the past several years. Judy stressed that the IF is an extremely lagging indicator. Altmetrics.com offers blog, social network and press access and is widely used by publishers. Proposals have been submitted by both Altmetrics.com and Plum Analytics. A list of indexes that are referenced on the IAFP website was shared. It was recommended that "Navigator" and "DigiTop" be added.

The following recommendations were made: (1) Create "subject collections" of existing articles on hot topics; (2) Conduct a discovery audit to confirm that *JFP* metadata is reaching indexing services and appearing in the literature; (3) Implement Altmetric.com; (4) Evaluate Peer Track and Allen Track. It was requested that Committee members share any additional ideas with Didi, should they have them. Feedback was received that we should be sensitive to changes to the online platform and how they could affect users that are accustomed to the more traditional ways of viewing and accessing information. A discussion was had around methods papers. Some methods papers aren't easily identifiable by simply searching the title or abstract, so leveraging keywords would help. Alejandro asked about the possibility of a marketing strategy. A question was asked around the timing of some of these changes – it is anticipated that all content will be up on the new site by the end of the year. With all the moving parts, we need to ensure the transition is as smooth as possible for everyone. Didi is going to work with Allen Press to confirm the timeline so it can be effectively communicated. The communication and marketing strategy should be reviewed and designed for maximum impact and visibility. As ASM has moved away from the Impact Factor, it was discussed what the appropriate metric is. The balance between selectivity/quality and volume need to be considered. Selectivity could be reflected by measuring the rejection rate a particular journal exhibits. A higher rejection rate could suggest selectivity is

SPECIAL COMMITTEES

3-A Committee on Sanitary Procedures

higher. Judy believes that the Impact Factor won't disappear as a metric anytime soon, despite ASM's stance. A comment was made that some academic institutions insist on students publishing in journals with impact factors greater than 2.0. Judy commented that there is a growing gap between research occurring and the relevance to the general public and the impact factor doesn't necessarily reflect the adoption by a wider audience. She commented that "books, journals and everything else" is now "Books, Journals, *data sets* and everything else." Alejandro mentioned that the impact *JFP* has specifically on the food industry is quite significant and may not be reflected in the IF. A long discussion was had on how this could be better reflected, shared or measured to track the journal's relevance and perhaps to contribute to the marketing effort. A comment was made that asking authors to reference previously published *JFP* articles could strengthen our IF. The future is most likely going to move toward an IF for an individual article vs. a role up/average of all impact factors for a particular journal. We believe *JFP* is positioned to benefit from this approach.

A motion was approved to recommend a marketing and communication strategy for the *Journal of Food Protection* to the Executive Board to support the output of Judy Luther's work.

Recommendations to the Executive Board:

1. The Committee recommends that Sean Leighton be appointed to Vice Chair of the Committee.
2. The Committee recommends that the Board consider and support recommendations that have come out of Judy Luther's approach.
3. The Committee recommends that the Board support the development of a marketing and communication strategy to drive the timely promotion of the *Journal*. We recommend the allocation of resources to support the involvement of a marketing/communications specialist to lead this effort.

Next Meeting Date: July 9, 2017 in Tampa, Florida.

Meeting Adjourned: 12:00 p.m.

Chairperson: Vijay K. Juneja.

Members Present: Steven Sims, Tom England, Daniel Erickson, and Cristal Garrison.

New Members Present: Daniel Bendjouia, David Blomquist, Alejandro Castillo, Alejandro Echeverry, Jeff Edelen, Khurram Irshad, Connie Kirby, Brittany Laster, Quanhong Li, John Merenick, Steven Murphy, Belem Ontiberos, Phyllis Posy, Glenner Richards, Arlette Shazer, Debra Smith, Frederick Stokes, Jaime Vaca, Stephen Walker, Paul Winniczuk, and Yue Zheng.

Board/Staff Members Present: Mickey Parish. **Number of Attendees:** 36.

Meeting Called to Order: 10:01 a.m. Sunday, July 31 2016.

Minutes Recording Secretary: Dan Erickson.

Old Business: Read the Antitrust Guidelines from Page 16 of the Committee Handbook.

New Business:

- Greetings and instructions from the IAFP Board of Directors by Dr. Mickey Parish.
- Recognized the passing of former 3-A CSP member and former New York Department of Agriculture and Markets Inspector, Mr. Dale Chilton. Mr. Chilton passed away on July 2, 2016. Steve Sims requested a moment of silence in recognition of Dale's service to the Committee, memory and his commitment.
- An overview of 3-A SSI, its operations including the standards writing and consensus process and the 3-A Third Party (compliance) Verification program was presented by Steve Sims. Steve mentioned 3-A Regulatory Personnel Travel Assistance Program noting that \$5000 Allotted for Sanitarian Travel Assistance to the 2017 3-A SSI Annual Conference. \$1000 is reserved per participating sanitarian. The costs are to be incurred by the sanitarian first, then 3-A SSI reimburses the expenses after sanitarian returns home. For more information contact Paul Dix at Paul.Dix@maryland.gov.
- The next 3-A SSI Annual Conference will be held on May 1 through May 4, 2017 at the Hilton Airport Hotel in Bloomington, Minnesota near the Mall of America and in close proximity to the Minneapolis/St. Paul Airport (MSP). Suggestions for speakers and topics for the 3-A SSI Annual Meeting in 2017 should be directed to: Tim Rugh at trugh@3-a.org.

Mr. Sims outlined proposed wording changes for this "Mission Statement" for the IAFP Special Committee, 3-A Committee on Sanitary Procedures (3-A CSP).

Proposed language as follows:

Mission: To serve as IAFP representatives to the 3-A Sanitary Standards Committee: to provide ideas for IAFP Symposia, Roundtables, White Papers, Webinars and to the 3-A Sanitary Standards Annual Meeting.

There were no objections among the group assembled at this meeting to move this proposed change of the IAFP/3-A CSP mission statement to the IAFP Board.

- Topics and Speakers for Symposia or Roundtable

Discussion at the IAFP 2017 Meeting:

- Sharpening the current international tools used for validating hygienic/sanitary construction, design criteria and material selection for food processing equipment. What's available; are they harmonized?
- New criteria applied to validating the acceptability of existing, heritage and trusted equipment and facilities. Reinforcing current knowledge and practice. Retro-fitting and up-grading food processing equipment.
 - Suggested speakers: Mr. David Drum, Kellogg (recommended by Jaime Vaca, Global Manager of Sanitation Hershey. jvaca@hershey.com).
 - Bio-films and allergen control on product contact surfaces and cleanability of hygienic/sanitary food processing equipment.
 - Methods for disinfection of food processing equipment containing allergens. Test methods for validation.
Suggested speaker: Prof. Ronnie Russel Dublin Ireland (recommended by Tom Johnson at Qlean Tech Enterprises, LLC. tom@qleantech.com)
- Methods for disinfection of food processing equipment containing allergens. Test methods for validation.
 - Suggested speaker: Prof. Ronnie Russel Dublin Ireland (recommended by Tom Johnson at Qlean Tech Enterprises, LLC. tom@qleantech.com)
 - Darla Goeres, Center for biofilm engineering at Montana State University.

Recommendations to the Executive Board:

1. The 3-A CSP requests that the IAFP Board of Directors consider the following proposed "Mission Statement" changes in regard to this Committee. Mission: To serve as IAFP representatives to the 3-A Sanitary Standards Committee: to provide ideas for IAFP Symposia, Roundtables, White Papers, Webinars and program ideas to the 3-A Sanitary Standards Annual Meeting.

Next Meeting Date: July 8, 2017, Tampa, Florida.

Meeting Adjourned: 12:00 p.m.

Vice Chairperson: Steven Sims.

Committee on Control Foodborne Illness

Members Present: Ewen Todd (Chair), Judy Greig (Vice Chair), Sherri McGarry, Jayne Nosari, Phyllis Posy, Ben Tall, Jane Van Doren, Guodong Zhang, Michael Batz, John Guzewich, Sophia Kathariou, and Bobby Krishna.

New Members: David Nicholas, Tanya Roberts, Irshad Sulaiman, Laurie Farmer, Melanie Harris, Vince Radke, Jin Hee Kim, Ernest Julian, Shelendra Singh, and Muhammad Khalid.

Board Member Present: Tim Jackson. **Number of Attendees:** 18.

Meeting Called to Order: 8:03 a.m., Sunday, July 31, 2016.

Minutes Recording Secretary: Judy Greig.

New Business:

1. Introductions of those attending (Ewen).
2. Statement read from IAFP regarding acceptable activities in Committees (Judy).
3. Two items added to agenda – Secretary Tim Jackson with an update from the IAFP Board and approval of 2015 CCFI minutes. Tim indicated there are 3,400 attending this year. Usually half the symposia are accepted. For symposia, speakers should be given 30 minutes including questions. Review of 2015 minutes: add Jane Van Dorn to last year's minutes. Jack moved acceptance. Ben Tall seconded/moved. Agreed.
4. Review of symposia/roundtable for this Annual Meeting (Ewen, Judy, Jack):
 - "How Do We Measure the Effectiveness of Regulatory Food Safety Programs?" Tuesday, August 2, 1:30 p.m. to 3:00 p.m.
 - "Approaches to Safe Use of Irrigation and Wash Water in the Face of Increased Global Water Shortages" Wednesday, August 3, 10:30 a.m. to 12:00 p.m.
 - "Integrating Food Safety into Food Security" Wednesday, August 3, 8:30 a.m. to 10:00 a.m.
 - "2016 Foodborne Outbreak Updates" Wednesday, August 3, 1:30 p.m. to 3:30 p.m.
5. Progress of the *Procedures to Investigate Waterborne Illness* manual. Ewen indicated that he and Marilyn Lee had been working with Springer (publisher) on the proofs since last August. Springer says it is ready to go out but not yet seen by IAFP staff. In fact, it was for sale at the Springer booth. The format is similar to the Foodborne manual. CDC is aware of the new edition having contributed to it. There was discussion on the use of the manuals. The 2011 Foodborne manual is not identical but consistent with the Council to Improve Foodborne Outbreak Response (CIFOR).
6. There was discussion of the need to revise the *Procedures to Investigate Rodent-borne and Arthropod Illnesses* manual although Board approval has already been given. We will check the NIH on-line manual, and other publications. If we proceed, Judy is tentatively willing to coordinate the project (permission from Public Health Agency of Canada, PHAC, required); members and experts to work on different sections need to be identified, e.g., Robbin Lindsey and Nick Ogden of PHAC. There may be a link to One Health, e.g., Jean Kamanzi of FAO, previously the World Bank, and Laura Kahn of Science and Global Security, as well as Lyle Peterson of CDC at Fort Collins.
7. Viral and parasitic portions of Diseases Transmitted by Foods Manual (3rd edition) completed but need to be added to the table. Individuals need to be identified to contribute to biotoxin, plant toxicant, and chemical sections. Relevant PDGs will be contacted.
8. The 100 Year History of the Committee remains to be submitted to *Food Protection Trends* requiring agreement between the authors on format.
9. The traditional structure of the CCFI has been focused on publication of manuals, but there is no PDG on epidemiology. This currently comes under the CCFI looking to raise issues on surveillance and prevention and control of foodborne disease.

Should there be a focus to get more visibility for epi at CCFI? Having more FSIS/CDC membership would help.

10. For those who wish to attend other PDGs, there was a suggestion that the symposia discussion begin at the start of the meeting and have discussion on manuals later in the day but that also has issues since these are important long-term commitments to the Association.
11. Future symposia:
 1. International food safety symposia with speakers from countries not previously presented at IAFFP is one symposium idea. Since Africa is one region not well represented in food safety issues at IAFFP, we will check out the African Affiliate meeting on Tuesday for input, but travel funding may become an issue.
 2. The International PDG raised the issue of how do developing countries respond to the new FSMA requirements for export. Lebanon with potential *Salmonella* of tahini affecting export could be one talk. Irshad Sulaimanand (FDA), Don Zink (formerly with FDA), and Osama El-Tawil (Cairo) may have potential speakers. Israel revised all its food safety regulations as a result of FSMA (Phyllis Posy). China also has new safety laws as a result of FSMA.
 3. Harmful algal blooms and associated health problems, perhaps combined with seafood pathogens (bacteria, viruses and parasites). Contact Water Safety and Quality and Seafood Safety PDGs. Note: cyanobacteria covered at this Annual Meeting.
 4. Exploring food safety myths in a roundtable format with a panel of Past Presidents (if sufficient "myths" can be identified, a second session could be considered for 2018): Examples of these are: the five-second rule; concerns over GMOs (e.g., soybeans and corn); safety of long-term stored raw milk cheese; avoiding rewashing prewashed greens; counter time until leftover hot food goes into fridge; rinsing meats before handling; washing produce with soap and water – not safe for consumption; eating raw shellfish; safety of farmers' markets (food is inspected); safety of sushi; does alcohol kill food pathogens, e.g., raw or eggs oysters in a shot glass; smelling food to see if safe to eat; are brand name products safer than generic products; pink chicken from bone marrow; effectiveness of restaurant signage (competency of inspectors, reliability of inspections, competing issues within department, increasing the risk of bribery, but an incentive to inspectors). There are also industry myths, such as safety of raw milk cheese that is over 60 days old (i.e., blue cheese); flour and pastry for baked goods; industry personal knowledge of their brand products can trump the need for challenge studies to guarantee the safety of their products.
 5. Root cause analysis of outbreaks: what is it and how is it being used? With three speakers representing outbreak investigations (Vince Radke), regulatory programs (CFSAN or FSIS), and industry (TBD). The term 'root cause anal-

ysis' is being used more often in the context of food safety but it likely has many different meanings depending on who and where it is spoken of. This symposium will explore the use of root cause analysis in the food safety world and discuss the need to harmonize the meaning to mitigate confusion about the term. This will include a review of the National Environmental Assessment Reporting System (NEARS) with restaurants/retail linking epi data to environmental investigation for 2014 data. Vince Radke will check out CDC sources including Art Liang, Ian Williams and Rob Tauxe (lab, Peter Gerner-Smidt/John Besser at CDC and Eric Brown at FDA and epi, Ian Williams). State local and broad CDC and perhaps another country – Europe – EFSA? Jack Guzewish (former FDA) and Melanie Harris at Department of Health, Iowa may also have input. There are plans to have a conference call in August.

6. Late-breaking foodborne outbreaks should be an automatic symposium with ideas during the fall but leave one slot for a really late-breaker.
7. The mechanisms of immunocompromised (IC) illness, do IC individuals become more likely ill or more severely ill (or both). What is the impact of antacids, limited food intake? Could spores of *Bacillus cereus* in meat loaf affect IC people more than healthy adults since spores are often present in cooked foods? *C. difficile* is found on meat and may be ingested but seems not to cause illness to health individuals.
8. Social media to detect outbreaks at federal/state/local levels. Walmart (Melanie Harris) is looking at CIA software for anti-diarrheals through social media to track enteric illnesses and outbreaks. There could be pings for specific geographical areas. They are also tracking employees calling in ill and where they work at store level. This is in the initial stages, and they are still working on what do you do when there is a spike. New York State uses Yelp and CDC uses Paliter from DND with a focus on norovirus right now.
9. Source attribution for *Campylobacter* cases since we have limited data on the degree which potential sources apply. Michael Batz is willing to work on this one.

Recommendations to the Executive Board:

1. We seek the Board's input to have a late outbreak symposium at each Annual Meeting with flexibility with at least one speaker slot to be filled within weeks before the Meeting
2. We recommend that Marilyn Lee receive an award for her leading role in the publication of the 3rd edition of the Waterborne manual.
3. We recommend a conference call in August with several members to discuss a symposium on root cause analysis.

Next Meeting Date: July 9, 2017, Tampa, Florida (with periodic communications between meetings).

Meeting Adjourned: 5:00 p.m.

Chairperson Name: Ewen Todd.

Constitution and Bylaws Committee

Members Present: Jenny Scott, Melanie Neumann, Steve Murphy, Kathleen Glass, Michael Brodsky, Jennifer Quinlan, Michelle Danyluk, and Caroline DeWaal.

Board/Staff Members Present: David Tharp.

Visitors/Guests: Patrice Arbault (European Symposium Organizing Committee), Richelle Beverly (Kellogg Co), William Huntley (William Huntley Consulting), Bobby Krishna (Dubai Municipality), Moustapha Oke (MOECC), and Marianna Solorio (Driscoll's). **Number of Attendees:** 15.

Meeting Called to Order: 11:02 a.m., Sunday, July 31, 2016.

Minutes Recording Secretary: Melanie Neumann.

Approval of 2015 Minutes. Motion to approve the 2015 minutes by Michael Brodsky, seconded by Caroline DeWaal.

Old Business: None.

New Business:

Jenny Scott discussed three amendments to the Bylaws that will be presented at the IAFP Business Meeting for membership vote on Tuesday August 2, 2016. These amendments are to:

- Section V Publications to clarify the descriptions of the two IAFP publications.
- Section VI Standing Committees, Special Committees, Professional Development Groups and Task Forces to clarify the composition of the Nominating Committee and the process for appointing the members and the chairperson and vice chairperson.
- Section VI Standing Committees, Special Committees, Professional Development Groups and Task Forces for the establishment of a Webinar Committee as a Special Committee.

The process for voting on these changes and a friendly amendment was discussed.

Patrice Arbault of the European Symposium Organizing Committee, an IAFP Standing Committee, discussed the Committee's goals and objectives, which are to grow and structure the meeting in the EU. The European Symposium Organizing Committee had developed a process for operation of the Committee and suggested incorporating the process into the bylaws. This was discussed with David Tharp by email. The European Symposium Organizing Committee will reconsider its approach based on feedback from David Tharp and members of the Constitution & Bylaws Committee and determine whether revised operational procedures would result in a need for revision of the bylaws.

David Tharp gave a brief update on the status of the Association.

Jennifer Quinlan, a new Committee member, asked how proposals to change the Constitution and Bylaws originate. David Tharp and members of the Committee explained the process.

Recommendations to the Executive Board:

1. Recommend refresher on the basics of Roberts Rules of Order in PDG Chair and Vice Chair meeting next year.
2. To remind all IAFP Members to clearly pronounce all letters of "IAFP's" acronym, so as to not sound like other similar association acronyms.

3. Provide in the rationale the name of the group/origin of the change for any proposed Constitution or Bylaws change.
4. Approval of Melanie Neumann as Vice Chair.

Next Meeting Date: July 9, 2017 in Tampa, Florida.

Meeting Adjourned: 11:46 a.m. Motion to adjourn made by Kathleen Glass. Seconded by Steve Murphy.

Chairperson: Jenny Scott.

Foundation Committee

Members Present: Vickie Lewandowski (Chair), Emilio Esteban, Judy Greig, Jenny Scott, Wendy White, Peggy Cook, Gary Acuff, and Randy Phebus.

Advisors Present: Fred Weber, Gale Prince, Kathy Glass, Rusty Gildner, and Paul Hall.

Board/Staff Present: David Tharp, Kali Kniel, Alejandro Mazzotta (liaison), Don Zink (advisor), Tim Jackson (member), and Lisa Hovey. **Number of Attendees:** 19.

Meeting Called to Order: 7:30 a.m., Wednesday, August 3, 2016.

Minutes Recording Secretary: Wendy White.

Old Business:

Motion to approve the 2015 minutes by Jenny Scott; second by Paul Hall; unanimously approved.

Financial Reports: Balance Sheets and Statements of Activities for nine months ending May 31, 2016, the previous twelve months ending August 31, 2015, the previous twelve months ending August 31, 2014, the Foundation Fund Investment Activity (the Foundation Account and the DSIP Investment), and the 2017 budget were reviewed by the Committee members.

It was noted that the Board Recommendation of moving \$100,000 of Foundation General Fund monies to the DSIP (Diversified Stock Investment Program) Investment was not pursued last year on the recommendation from our financial advisor.

Motion to approve the 2016 Financial Report was made by Paul Hall; seconded by Alejandro Mazzotta and unanimously approved.

New Business:

The Committee reviewed the current Foundation fundraising progress during the Annual Meeting. At the time of this meeting, over \$22,000 had been raised at the Foundation booth (an increase of approximately \$7,000 from previous year), earning the extremely generous matching donation of \$15,000 from Fred Weber. The Silent Auction proceeds were approximately \$9,000, and it was noted that earnings and number of donations were slightly down from previous years. Other Sunday night and Tuesday afternoon fundraisers collected \$1,200 and \$300, respectively.

The Foundation fundraising booth, collectable coins, and interactive donation thermometer were considered successful. The predominant location of the Foundation booth was contributed to the increase in donations.

Gale Prince recommended developing statistics regarding member-giving for Vickie Lewandowski to share at next year's Opening Session. There was discussion around capturing

ing information around Travel scholarship information to share with the membership also. Gary Acuff recommended further developing a tiered membership dues system to provide additional opportunities for individual giving, similar to corporate sustaining membership levels. Don Zink volunteered to make five-coin wooden frame for 2018 fundraising efforts.

There was also discussion regarding an initiative to follow-up on past winners to engage them and encourage renewed membership; estimates on retention are around 30%–50%.

The Committee considered increasing the scholarship awards for next year and requested that Lisa Hovey review the financial data to make recommendations for increasing the scholarship awards in subsequent years.

Recommendations to the Executive Board:

1. Consider the development of a tiered membership dues system (similar to sustaining membership) to provide additional opportunities for individual giving.

Next Meeting Date: Teleconferences on Tuesday, January 31, 2017 at 10:00 a.m.–11:30 a.m. CT and on June 6, 2017 at 10:00 a.m.–11:30 a.m. CT. Meeting July 12, 2017 IAFP Annual Meeting in Tampa, Florida.

Meeting Adjourned: 8:35 a.m.

Chairperson: Vickie Lewandowski.

Membership Committee

Members Present: Brigitte Cadieux, Anna Colavecchio, Lawrence Goodridge, William Huntley, Jeff Lejeune, and Susan Linn.

Board/Staff Present: Lisa Hovey, Kali Kniel, and Mickey Parish. **Number of Attendees:** 9.

Meeting Called to Order: 3:05 p.m., Saturday, July 30, 2016.

Welcome and Introductions. One member suggested we contact members who are not present, especially those who have been absent for the last few years, to determine if they are still interested in sitting on the Committee, and if not, could they recommend someone else. Susan Linn volunteered to contact them.

Review of Minutes from 2015 Meeting. Motion to approve was passed unanimously.

Report from IAFP Executive Board – Mickey Parish.

- The organization is doing very well. The number of membership, attendees and exhibitors is increasing. The organization continues to grow despite other organizations not doing so well. The greater demand for food safety might be the driving force for this increase. Questions raised were: Do we understand why we are growing? Do we need to understand why we are growing? What can we do to continue growing? How big does the association want to become? The goal is to continue meeting the needs of the members and not become an advocacy group or take a position on any issue. IAFP is a place for discussion.
 - Membership in Canada and Mexico is decreasing slightly.
 - Slight decrease in sustaining membership, which could be due to consolidations.

- Discussion: What are the needs from Canadians and Mexicans that are not met? IAFP primarily focuses on American issues (e.g., FSMA but not Safe Food for Canadians Act). Might want to develop a symposium related to Canada and/or Mexico specific issues.

Old Business:

- Short one-minute video testimonials from IAFP members to help retain members and/or attract new members. Videos should be posted on IAFP website and/or YouTube channel for IAFP. The YouTube channel would need to be tagged with Food Safety, Food Protection and any other relevant tag. Only add top 10 videos to prevent overloading the channel. Highlights from the Annual Meeting (e.g., slide show with pictures) could also be added on the YouTube channel. Need to propose this idea to the President of IAFP.

New Business:

Increasing membership numbers.

- Need to increase membership and attendance of inspectors/auditors/sanitarians. Possibly start a PDG for inspectors/auditors/sanitarians. Another possibility could be a pre-meeting workshop on inspection which could be of interest for inspectors/auditors/sanitarians but also industry employees. Travel awards could incite these people to participate at the meeting. We might need better advertisement to attract this group of people.
- Metrics could be used to determine how to retain and/or attract members. Conducting a survey of: (1) current members to help determine why they are members and what their needs are, and (2) past members to determine why they left and what can be done to get them back. There may be some costs involved or a free survey platform (e.g., Survey Monkey) could be used to generate a simple survey. Care should be taken when preparing the survey to ensure the questions are asked correctly and will provide the proper information. The format should remain close-ended questions. Input from survey experts might be required.
- Set up a Food Safety Consultant service within IAFP. The service would be interactive and could either be available as part of the Annual Meeting app or through the IAFP Web site. Alternatively, it could be a computer set up at the IAFP meeting or experts available throughout the meeting for face-to-face discussions. A list of experts who agree to help would be developed. Need to consider liability. Also need to consider competitive issue with consultant firms who are members of the IAFP. Logistics remain to be discussed and decided.
- Get IAFP Affiliates to help attract new members. A prize/award could be given to the Affiliate which recruits the most members per year. There are concerns regarding the difficulties in tracing members that register through Affiliates. It was suggested to have the Affiliates record the names of the new members and send these names to someone at IAFP for confirmation.

- Consider working with a membership consultant. There will be a cost involved. Alternatively, consider reaching out to other organizations (e.g., Women's Food Service Forum) to see how they've managed to increase their membership numbers.
- Currently, there is an explosion of genomics which is leading to a clash between science and law. A symposium, roundtable or workshop could be organized to expand on the current knowledge and practices, and attract new, non-traditional members (i.e., food lawyers).
- Another important topic is the amount of food being wasted because of best before dates.
- A workshop was suggested to help new members (e.g., new graduates) of the food safety community learn how to establish themselves in the food industry. The rationale being that new members will continue renewing their membership and grow with the association. Also, new members could potentially convince their supervisors to send more people for training at the IAFFP.

Recommendations to the Executive Board:

1. Increased symposia related to Canadian and/or Mexican issues.
2. IAFFP should get a YouTube channel to add content and help advertise.
3. Development of a new PDG for inspectors/auditors/sanitaricians (though there is concern that there are too many PDGs already).
4. A survey should be developed to capture metrics on why members are staying with IAFFP and why past members have left.
5. A Food Safety "Ask an Expert" service should be established at the IAFFP meeting.
6. IAFFP Affiliates should be encouraged and rewarded to help recruit new members.
7. Approval of Zeb Blanton as Vice Chair.

Next Meeting Date: July 8, 2017, Tampa, Florida.

Meeting Adjourned: 4:30 p.m.

Chairperson: Lawrence Goodridge.

Nominating Committee

Members Present: Emilio Esteban (Chair) and Ian Jenson (Vice Chair).

Board/Staff Members Present: Linda Harris and David Tharp.

Meeting Called to Order: 4:00 p.m., Sunday, July 31, 2016.

Minutes Recording Secretary: Emilio Esteban.

Old Business: None.

New Business: Confidential consideration of candidates for Secretary of IAFFP.

Recommendations to the Executive Board: None.

Next Meeting Date: Teleconference to be scheduled for further deliberation in October.

Meeting Adjourned: 4:51 p.m.

Chairperson: Emilio Esteban.

Past Presidents' Committee

Members Present: Donald Schaffner, Donald Zink, Gary Acuff, Stan Bailey, Michael Brodsky, Jeff Farber, Kathy Glass, Jack Guzewich, Paul Hall, Lee-Ann Jaykus, Vickie Lewandowski, Gale Prince, and Katie Swanson.

Board/Staff Members Present: Alejandro Mazzotta and David Tharp. **Number of Attendees:** 15.

Meeting Called to Order: 3:30 p.m., Saturday July 30, 2016.

Minutes Recording Secretary: Don Schaffner.

Old Business:

- Jack Guzewich moved to accept the minutes of the previous meeting. Jeff Farber seconded the motion and the motion passed.

New Business:

- Alejandro Mazzotta provided an update from the Executive Board on the status of the Association and the Annual Meeting:
- Among discussion points were the efforts being undertaken to improve the impact factor of the *Journal of Food Protection* and efforts to speed publication of accepted papers. The Committee discussed the pros/cons of impact factor.
- The Committee was advised of the new Oklahoma Affiliate.
- The Committee was advised that the Athens, Greece meeting went well, but that expenses exceeded revenue.
- The Foundation Fund is doing well at approximately \$1.4 million. Fred Weber is offering a \$15,000 challenge this year.
- Alejandro Mazzotta was approved as incoming Vice Chair.
- The Committee discussed the challenge of getting awards nominees. Discussed the pros/cons of two Sanitarian Awards – govt. and industry, but current award allows for either. Discussed collaboration with NEHA on the award, as well as a broader collaboration with NEHA. Jack Guzewich felt that the time for this was right with a recent leadership change at NEHA.

Recommendations to the Executive Board:

1. Explore a collaboration with NEHA.
2. Find ways to engage the Affiliates to nominate candidates for the Sanitarian Award.
3. Modify the Sanitarian Award to include travel to the Annual Meeting, registration and a one-year membership.
4. Explore a connection with the Canadian Association of Public Health (the Canadian equivalent of NEHA).
5. Look into CEU certification – which certifying groups could we use and how would we implement.
6. Ask the Board to direct the Program Committee to have one symposium that is targeted to the interests and needs of local and state public health inspectors.

Meeting Adjourned: 4:31 p.m.

Chairperson: Don Schaffner.

PROFESSIONAL DEVELOPMENT GROUPS

Advanced Molecular Analytics PDG

Attendees: Leen Baert, Christoph Bahrndt, Jianfa Bai, Jing Bai, Pratik Banerjee, Junia Beaubrun, Scott Benko, Reginald Bennett, Jim Bono, Eva Borjas Orellana, Mick Bosilevac, David Buckley, Frank Burns, Brigitte Cadieux, William Centrella, Wonhee Cha, Patrice Chablain, Hediye Cinar, Anna Colavecchio, Peter Cook, Phil Coombs, Manoj Dadlani, Atin Datta, Henk Den Bakker, Xiangyu Deng, Francisco Diez, Catherine Donnelly, Edward Dudley, Christophe Dufour, Randolph Duverna, Ruth Eden, Tom Edlind, Patrick Fach, Willis Fedio, Postollec Florence, Elise Forward, Tong-Jen Fu, Ted Gatesy, Jessica Gavell, Solomon Gebru, Foivos Genigiorgis, Jose Gil, Larry Goodridge, Gopal Gopinath, Nur Hasan, Yingshu He, Joe Heinzlmann, Sunee Himathongkham, Kirsten Hirneisen, Maria Hoffmann, Jani Holopainen, Abigail Horn, Edan Hosking, Virginia Hughey, Timothy Jackson, Bala Jagadeesan, Dawanna James-Holly, Karen Jinneman, Jessica Jones, Carlos Juarez, Katrin Juling, Mikko Kauppinen, Yasu Komoto, Michael Kulka, Keith Lampel, Judy Lee, Panagiotis Lekkas, Susan Leonard, Carlos Leon-Velarde, Ye Li, Marie Limoges, Hsu-Yang Lin, Pushpinder Litt, Gabriela Lopez Velasco, Amanda Manolis, Craig Manthe, Matthew Markiewicz, Doug Marshall, David Melka, Jesse Miller, Nathan Mirdamadi, Naim Montazeri, Maria Morales, Paul Morin, Jean-Francois Mouscadet, Latha Murugesan, Chad Nelson, Xiangwu Nou, Taylor Oberg, Folarin Oguntoyinbo, Palmer Orlandi, George Paoli, Salina Parveen, Monica Pava-Ripoll, Alma Perez-Mendez, Sophie Pierre, Karen Pietrzen, Sohaib Qureshi, Sarita Raengradub, David Rasmussen, Angela Ruple, Jon Ryan, Kristin Schill, Jean Schoeni, Pallavi Singh, Gregory Siragusa, Matthew Stasiewicz, Eric Stevens, Diana Stewart, Ke Sui, Irshad Sulaiman, Ben Tall, Siddhartha Thakur, Anna Theil-Gangl, Melody Thompson, Chun Wang, Luxin Wang, Lingzi Xiaoli, Edith Zambrana, Ruben Zapata, Victor Zesiger, Lei Zhang, and Joseph Zindulis. **Number of Attendees:** 123.

Meeting Called to Order: 9:00 a.m., Sunday, July 31, 2016 by PDG Chair Greg Siragusa (Eurofins Microbiology Laboratories) who introduced himself and Vice Chair, Palmer Orlandi (FDA).

Minutes Recording Secretary: George Paoli.

Dr. Siragusa requested PDG members sign-in (or be scanned) and non-PDG members to sign-in and register as a PDG member via the IAFFP Web site. He also provided a handout of PDG-related symposia of interest at this year's meeting. Symposia of interest at this meeting will be discussed in this meeting; Due October 4, 2016. He asked attendees to consider symposia for next year's meeting, considering other PDGs that might have common interests; this topic would be open for discussion later in the meeting.

- Dr. Ed Dudley (Penn State) made a 15-minute presentation entitled "*Nomenclature Primer for Genomics/Microbiomics*" summarizing NGS technologies, the basics of NGS bioinformatic pipelines, data archiving sites, and a clarification of some debated nomenclature for describing microbial communities.
- A series of short (5–10 minute) presentations was made to provide attendees an overview of the current "state-of-the-science" of NGS:

- Henk Den-Bakker (Texas Tech) *WGS New Developments Data Analysis/Sequence Platforms.*
- Maria Hoffman/Eric Stevens, (FDA) *Recent Breakthroughs in WGS at the FDA.*
- Jesse Miller (NSF International) *Advances in Aptamer for Diagnostics*
- Nur Hassan (CosmosID) *WGS Data Pipelines.*
- Amanda Manolis (ThermoFisher) *PCR and WGS Technology Advancements for Food Safety.*
- Introductions of students attending the PDG
- Peter Cook (Grad Student, Texas Tech, Nightingale lab), *Genetic/Transcriptomic Characterization of Listeria monocytogenes from Food Processing Environments.*
- Panagiotis Lekkas (Post-Doc, UVM, Donnelly Lab, P1-08, P2-141), *Cheese Microbiome and Detection of Lm.*
- Abigail Horn (MIT, Finkelstein Lab, T3-08), *Contaminations of the Food Supply Chain, Rapid Targeting of Sources with Modern Data Analysis.*
- Palmer Orlandi, provided the *FDA Perspectives on Regulatory Aspects Genomic Applications.*
- Tim Jackson (Nestle; IAFFP Executive Board) made a short presentation on behalf of IAFFP discussing IAFFP 2016 attendance, IAFFP membership and recent decline in members from Mexico and Canada, symposia for next year's meeting, webinars, and IAFFP awards.
- Ruth Eden asked members to join and act as subject matter experts for *ask-bioexpert.com.*
- **Discussion: Ideas, Concepts and New Business**
- Symposia, Roundtable, Workshop Ideas for Proposals for IAFFP 2017; due October 4, 2016.
- NGS bioinformatics training at IAFFP 2017 or year-round training courses.
- Greg Siragusa asked by show of hands how many people in the room were bench scientists actively collecting and using NGS data – approximately 20 people raised their hands.
- Forming and selecting a team of traveling lecturers to visit branch meeting and deliver lectures on important and vital topics. Call it the *IAFFP Foundation Distinguished Speakers* (similar to *ASM Foundation Distinguished Speakers*).
- Student Involvement in our PDG (a PDG presence at the student luncheon would be a place to start).
- By show of hands – approximately a dozen attendees were potentially looking for employees with PDG-focused skillsets. Greg Siragusa asked how this PDG might help – no discussion on topic.
- Melody Thompson (Cargill) provided an industry perspective and opening a discussion on the best ways for industry to implement NGS technologies and use NGS data. The topic focused on regulatory issues, how the data will be used, data sharing, and associated legal issues. When asked by show of hands, approximately six people in attendance were currently collecting and using NGS in production and processing. Greg Siragusa suggested a conversation with Bill Marler on his perspective on what a sequence alone (in the absence of an isolate) would mean in foods.

- This discussion led to the suggestion of a symposium on the topic (i.e., industry perspective, legal and regulatory issues surrounding collection, use and sharing of NGS data).
- The topic of a side-by-side comparison of proficiency testing of PFGE and GeneTrakr. This could help push the labs toward sequencing methods. The topic of genomic methods in the BAM was mentioned
- Greg Siragusa brought up the topic of detection of DNA from dead or non-viable organisms, particularly with regard to zero-tolerance organisms. A discussion from Pratik Banerjee and others centered around the use of gene expression data (RNA Seq) and DNA sequencing data to confirm the presence of a live organisms, as well risk assessment variables with finding DNA from a dead or non-viable organisms.
- Questions and items discussed from the membership:
 - IAFP Foundational speaker program (similar to ASM Distinguished Speakers).
 - Industry perspective on collection, application and sharing of NGS data.
 - Proficiency testing for FDA GenomeTrakr (side-by-side comparison with PFGE).

Next Meeting Date: July 31, 2017, Tampa, Florida.

Meeting Adjourned: 11:00 a.m.

Chairperson: Greg Siragusa.

Applied Laboratory Methods PDG

Attendees: Douglas Abbott, Ted Andrew, Leen Baert, Jing Bai, Dory Barninka, Junia Beaubrun, Karen Beers, Scott Benko, Reginald Bennett, Larry Beuchat, Arun Bhunia, Rachel Binet, Wafa Birbari, Bledar Bisha, Preetha Biswas, Philip Blagoyevich, Eva Borjas Orellana, Mick Bosilevac, Alex Brandt, Michael Brodsky, Frank Burns, Oscar Caballero, Alexandra Calle, Catharine Carlin, Evan Chaney, Yang Chen, Yi Chen, Sojeong Choi, Nathaniel Cira, Mike Clark, Kristine Clemens, Kimberly Cook, Phil Coombs, Douglas Cosby, Alexandre Costa, Christopher Crowe, Ashley Cunningham, Marlo Darken, Kelly Dawson, Daniel Demarco, Govindaraj Dev Kumar, Brian Dimenna, Nancy Dobmeier, Katja Dohrendorf, Christophe Dufour, Hari Prakash Dwivedi, Ruth Eden, Franck Edouard, Hesham Elgaali, Blanca Escudero-Abarca, Emilio Esteban, Patrick Fach, Jeremy Faircloth, Paula Fedorka Cray, Peter Feng, Laura Gage, Ted Gatesy, Foivos Genigiorgis, Gary Gensler, Jose Gil, Jackie Glover, Jonathan Glynn, Narjol Gonzalez-Escalona, Nancy Gushing, Miguel Gutierrez, Monica Guzman, Jennifer Hait, Upasana Hariram, Christina Harzman, Alice Hayford, Joe Heinzelmann, Evan Henke, Suneer Himathongkham, Maria Hoffmann, Patricia Jaar, Bala Jagadeesan, John Jarosh, Lee-Ann Jaykus, Wen-Tsai Ji, Karen Jinneman, Rick Kanaby, Brenda Keavey, Shivaramu Keelara Veerappa, Ramin Khaksar, Yasu Komoto, Jeffrey Kornacki, Keith Lampel, Judy Lee, Y. Jennifer Lee, Susan Leonard, Cari Lingle, Maria Lovelace-Johnson, Dumitru Macarisin, Wendy Maduff, Pancita Manalili, Frederic Martinez, Tammy McFate, Jesse Miller, Pat Millner, Molly Mills, Paul Morin, Rodney Moxley, Peter Muriana, Stacey Murphy, Charles Muyanja, Joshua Nazareth, Chad

Nelson, Minh Nguyen, Xiangwu Nou, Moustapha Oke, Modesto Olanya, Palmer Orlandi, Omar Oyarzabal, Mickey Parish, Salina Parveen, Amanda Pashenee, Alma Perez-Mendez, Tina Pfefer, Jerri Lynn Pickett, Sophie Pierre, Karen Pietrzen, Jean-Louis Pittet, Aaron Pleitner, Tracy Posavatz, Sarita Raengradub, Srinivas Ramaswamy, Ravinder Reddy, Glenner Richards, Jena Roberts, Angela Ruple, Jean Schoeni, Carla Schwan, Brooke Schwartz, Kyle Schweisthal, Arlette Shazer, Angela Siemens, Jennifer Sinatra, Kenna Smith, Thierry Sofia, Insook Son, Matthew Stasiewicz, Larry Steenson, Tyler Stephens, Don Stoeckel, Mehgan Styke, Zhanqiang Su, Ben Tall, Sandra Tallent, Leslie Thompson, David Tomas, Jean-Philippe Tourniaire, Peter Trabold, Purnendu Vasavada, Danah Vetter, Jeyachandran Visvalingam, Morgan Wallace, Li Wan, Chun Wang, Hua Wang, Kurt Westmoreland, Pamela Wilger, Pierre Woehl, Florence Wu, Shuang Wu, Jin Xu, May Yeow, Kisun Yoon, Edith Zambrana, Elliott Zell, Wayne Ziemer, and Joseph Zindulis. **Number of Attendees:** 171.

Meeting Called to Order: 3:15 p.m., Sunday, July 31, 2016.

Sign in for PDG meeting performed using scanning device. Replaces sign-in sheets. Option to add or delete PDG membership is available via the IAFP web site.

Old Business: Approval of 2015 minutes. Motion to accept minutes made by Ben Tall, seconded by Emilio Esteban, and approved.

New Business: Mickey Parish, representative of the IAFP Board, provided updates:

- Presently 4,100 members.
- Projecting 3,400 attendees at IAFP 2016.
- Largest number of exhibitors at 175. Encouraged attendees to visit booths.
- Symposia proposals: Program Committee will adhere to 30-minute slots for each speaker. Full symposia are three hours (six speakers); Half symposia are 1.5 hours (three speakers) and on the last day of the meeting, symposia can be two hours (four speakers).

Synopsis of ALM supported symposia/roundtables/workshops: 11 symposia, 1 roundtable and 1 workshop.

Symposia and Roundtable

- Lab Detection of Food Safety Hazards: Has Sample Prep Advanced into the 21st Century?
- We are What We Eat: Should Food Microbiology Take the Lead on Understanding How the Homeostasis of the Gut Microbiome Influences Human Health and Disease?
- Prokaryotic Hibernators-persists in Foods – What is Really Going on?
- Pathogen Adaptation: Transmission from the Environment to Host and from Host to Host.
- Now That WGS Has Arrived, What Does the Data Really Tell Us?
- The Complexity of Antibiotic Resistance – The Need for Multi-System Approaches.
- *Campylobacter* roundtable.
- Multiplex Foodborne Pathogen Detection Assays: Fishing for Them All with One Bait.
- Crowdsourcing and Novel Digital Data: 21st Century Tools for Food Safety Monitoring, Surveillance, and Management.
- How Safe is Your Infants' Powdered Formula: A Tale of *Cronobacter sakazakii*?

- Revisiting the STEC Testing Approach: Regulatory and Industry Perspectives on Making It.
- More Reliable for Routine Application in Food Industry.
- VBNC bacteria: not your typical injured cells.

Workshop

- Norovirus workshop.

Interactive Discussions

USDA-FSIS Updates: Emilio Esteban summarized the ongoing whole genome sequencing efforts at the U.S. Department of Agriculture and the efforts to identify and characterize every pathogen isolated from meat, poultry, egg products and catfish (domestic and imported) by 2017. He also described the chemistry efforts to continue the collection of data on heavy metals, drugs, pesticides, and antimicrobials. A revised enrichment medium with a neutralizing agent has been implemented by FSIS in the collection of samples for pathogen testing and for baseline studies. The Microbiology Laboratory Guidelines are not changing, only the formulation of the medium for sample collection has been update. The agency is moving to a universal enrichment for pathogen detection and a continuous flow from research to regulatory testing.

Canadian Microbiological Methods: Martin Duplessis stated that in Canada the Compendium of Analytical Methods has the protocols for seven pathogens as of March 2016 and is available on their web site.

Method Validation ISO 16140: Pamela Wilger reviewed the efforts on Method Validation ISO 16140 and mentioned that the ISO representing organization in the USA, ANSI, is looking for different technical experts.

STEC Detection Methods: Peter Feng provided an update on STEC detection methods and which genetic determinants are used to make regulatory calls for public health risks. Presence of specific virulence genes, along with stx variants, and serotyping are critical components of how different regulatory agencies (FDA, EFSA, FSIS, CFIA) take regulatory action.

Norovirus Method Update/NoroCore: Lee-Ann Jaykus provided an update on cell culture model to propagate noroviruses recently developed by Mary Estes. She also reported on a recent study that looked at prevalence of norovirus in airplanes and restrooms; 1% prevalence found in restrooms. In addition, norovirus was found to be aerosolized in vomitus from infected people. Lastly, she updated the membership on a recent comparative study on the effect of disinfectants on norovirus as well as the Tulane virus to be used as a surrogate for norovirus.

STEC CAP Grant Update on STEC Methods: Rodney Moxley provided an update on the USDA STEC CAP grant. He outlined the five objectives of the grant that included PCR based detection assays, development of biosensors, the utility of the Possé differential agar, use of other agars for STEC isolation, and NEOSEEK testing.

Pathogen Testing in Meat Industry: Melody Thompson presented an update on pathogen testing in the meat industry.

Enterotoxins: Sandy Tallent spoke about efforts to harmonize methods to detect enterotoxins from certain pathogens. Part of this process is based on ISO methods with new pre-enrichment broth changes. She also noted that certain methods, such as Tecra kit for *Bacillus cereus*, have been eliminated and now use VITEK. Other companies now have revised their kits (BioControl with AOAC validation study underway) and bioMérieux has introduced a new method.

Comments made on the type of symposia for 2017 include:

- Methods validation.
- Understanding how *Listeria* survives in the environment and how transient versus resident strains can be identified.
- Universal enrichment broths.
- Low-water activity foods and the selective agents in media (antibiotics) that may stop growth of target organisms.
- Recovery of injured cells and discussion on whether anaerobic or aerobic incubation is better for isolation of facultative aerobes.
- Micro data management.
- Variability of results among automated methods.
- Detection of live vs. dead cells.
- Metabolites or markers to detect the presence of pathogens in samples.

Recommendation to the Executive Board:

- Request a different setup for the meeting, with a large table in the middle where the officers will sit. Request two hand-held microphones.

Next Meeting: Conference call has been set for September 14, 2016.

Meeting Adjourned: 5:05 p.m.

Chairperson: Hari Dwivedi.

Beverages and Acid/Acidified Foods PDG

Attendees: Dan Anderson, Elizabeth Andress, Dory Barninka, Fred Breidt, Greg Burnham, Frank Burns, Erdogan Ceylan, Suchart Chaven, Stella Chen, Marlo Darken, Nomie Desriac, Ruth Eden, Linda Harris, Shauna Henley, Barbara Hunt, Brandee Hunter, Ingrid Huntley, Michelle Iannucci, Barbara Ingham, Keith Ito, Stephen Kenney, Jason Khoo, Elke Kohler, Y. Jennifer Lee, Quanhong Li, Suzanne S Mailman, Joseph Meyer, Steven Murphy, Wilfredo Ocasio, Deog-Hwan Oh, Amy Parks, Tracy Posavatz, Erin Post, Florence Postollec, Gale Prince, Daniel Quillen, Emilia Rico-Munoz, Jena Roberts, Patricia Rule, Paula Safko, Sarah Sanderson, Kristin Schill, Jean Schoeni, Jay Schuman, Yael Sellman, Weilin Shelver, Tracey Sinclair, Pamela Sinderson, Kevin Smith, Meghan Styke, Ben Tall, Malcond Valladares, Purnendu Vasavada, Paul Winniczuk, Florence Wu, May Yeow, and Michelle You. **Number of Attendees:** 57.

Meeting Called to Order: 1:00 p.m., Sunday, July 31, 2016.

Minutes Recording Secretary: Fred Breidt and Wilfredo Ocasio.

Old Business: Approval of 2015 meeting minutes.

New Business:

- Call for nominations for vice chair: Dr. Barbara Ingham nominated.
- Ruth Eden presented a new website (<http://ask-bio-expert.com/>) which is a new interactive forum for the discussion of topics facing the food safety community. It will be a place for the exchange of information, get expert opinions, and to deal with hot topics as they emerge. It will also enable the experts to introduce themselves to the community. Ruth invited all attendees to be a part of this activity and help shape this new form of communication. Please share with her

(ruth@ask-bioexpert.com) your thoughts and suggestions so that together, everyone can make this your site.

- Brief discussion of the two symposia for the current (2016) meeting sponsored by the PDG.
- Antitrust statement.
- Update from the IAFP Board by Dr. Linda Harris.

Discussion of topics for the 2017 meeting:

- Workshop proposal for 2017, Workshop on fungal identification – Dr. Emilia Rico-Munoz, proposed for the 2017 meeting
- Proposed Symposia topics for 2017:
 1. Innovation, regulation, and validation fundamentals for beverages and acid/acidified foods” Patricia Rule, Megan Stylke, Erdogan Celyon (with fruit and vegetable PDG?) 30 minutes for each overview topic – innovation; regulation; validation. Challenges to innovation, regulation and validation for beverages and high-acid foods. The effects of spoilage on mycotoxin production – Emilia Rico-Munoz.
 2. Evaluation of surrogates in high acid-low moisture foods: Jena Roberts recommended as a topic within a larger symposium; perhaps one focusing on surrogates.
 3. Proton transfer mass spectroscopy as a tool for quality and safety: F. Breidt and Frank Burns (with Advanced Molecular Analysis PDG).
 4. Predictive modeling: Florence Postollec and Emilia Rico-Munoz.
 5. High throughput Sequencing microbial ecology methods for beverage and fermented/acidified food ecology and safety: F. Breidt and Frank Burns.
 6. Validation of aseptic filling processes: Greg Burnham and Wiledo Ocasio.
 7. Developments in mold spoilage and mycotoxin production: Emilia Rico-Munoz and Margareta Gomez.
 8. Preventative controls and environmental monitoring programs for quality and safety of beverages and acid/acidified foods: Mehgan Styke.

Recommendations to the Executive Board:

1. Dr. Barbara Ingham was unanimously elected vice-chair, subject to approval by the IAFP Board.
2. PDG affiliations should be included with the information in the program about each symposium. It was also recommended that the IAFP app symposia be searchable by PDG affiliation.

Next Meeting Date: July 9, 2017, Tampa, Florida.

Meeting Adjourned: 3:20 p.m.

Chairperson: Fred Breidt.

Dairy Quality and Safety PDG

Attendees: John Allan, Patrice Arbault, Dory Barninka, David Bauer, Shawn Berry, David Blomquist, Alex Brandt, Oscar Caballero, Zhao Chen, Debra Cherney, Vijay Chhetri, Roger Cook, Phil Coombs, Greg Danzeisen, Thais De Melo Ramos, Nomie Desriac, Bryan Dieckelman, Brian Dimenna, Catherine Donnelly, Denise DuFresne, Ruth Eden, Nancy Eggink, Sarah Engstrom, Dan Erickson, Laurie Farmer,

Eugene Frey, Ted Gatesy, Jessica Gavell, Ann Gladwell, Kathy Glass, Max Golden, Margaret Good, Kevin Habas, Christina Harzman, Erin Headley, Sunee Himathongkham, Ingrid Huntley, Bala Jagadeesan, Julie Jean, Adam Johnson, Maputa Kamulete, Jeff Kornacki, Sarah Kozak, Panagiotis Lekkas, Fritz Lembke, Quanhong Li, Jiang Liang, Marie Limoges, Cari Lingle, Antonio Lourenco, Deon Mahoney, Yvonne Masters, Amanda Matczynski, Tom McCaskey, Rachel McEgan, Susan McKnight, Wendy McMahan, Holly Mockus, Katie Moore, Kellee Mullen, Stacey Murphy, Steve Murphy, Obianuju Nsofor, Taylor Oberg, Daniel Okenu, Stephanie Olmsted, Donald Pagh, Yanying Pan, Mickey Parish, Monica Pava-Ripoll, Alma Perez-Mendez, Tina Pfefer, Terrance Phillibeck, John Porter, Florence Postollec, Phyllis Posy, Gale Prince, Karl Raabe, Ravinder Reddy, Amy Rhodes, Rona Robertson, Timothy Rugh, Paula Safko, Kori Scherer, Jean Schoeni, Arlette Shazer, Weilin Shelver, Todd Shilk, Steven Sims, Gregory Siragusa, Daniel Smith, Larry Steenson, Clint Stevenson, Jarret Stopforth, Lori Tansey, Gry Dawn Terrell, Leslie Thompson, David Tomas, Jean-Philippe Tourniaire, Alan Traylor, Lubomir Valik, Purnendu Vasavada, Stephen Walker, Edith Wilkin, Darrel Williams, Sharon Wilson, Lingzi Xiaoli, Jin Xu, Ying Xu, Betsy Yakes, and Joseph Zindulis. **Number of Attendees Present:** 111.

Meeting Called to Order: 1:02 p.m., Sunday, July 31, 2016.

Minutes Recording Secretary: Nancy Eggink.

New Business:

Legislative Update (Regulatory):

1. FSMA – FSPCA update by Edith Wilkin (Leprino Foods Co.):
 - a. Regulations – Symposia & PowerPoint on agenda for greater IAFP Meeting.
 - b. Dairy Specific – Model Food Safety Plans in dairy needed for the PCQI Course.
 - c. Call to Action – Model Food Safety Plans in dairy needed for the PCQI Course.
 - d. To date: 520 Lead Instructors and 12,724 Certificates issued.
 - e. Universities are incorporating curriculum into coursework so at end of semester, students receive FSPCA Certificate.
 - f. Sources for dairy specific food safety assistance – tailor materials to provide greater guidance for FSPCA, and develop guidance for dry dairy and a Dairy Hazards and Preventive Controls Guide.
 - g. Grade A PMO vs. non – have different compliance dates; delay because PMO needs to be updated to comply with PCHF. Expectations should be crafted for equivalence (PMO) to Preventive Controls.
 - h. Opportunity for 2017 meeting.
2. Board Update – Mickey Parish, Vice President
 - a. 4,100 members as of now (significant increase in membership 2016).
 - b. 238 dairy PDG Members.
 - c. 175 exhibitors this year (all-time high).
 - d. Dairy PDG has always had good participation.
 - e. Future – 30-minute talks only.
 - f. Webinars – routine with great staff support; love to entertain ideas.
3. 2015 Minutes were approved as written.

Old Business:

1. Symposia/roundtables/technical presentations/posters with dairy interest – Dawn Terrell.
 - a. Highlights of better process cheese school – 21 this year certified – Kathleen Glass.
 - b. Drug Residue – Tues. a.m. in response to some proposals that came out of NCIMS last year. Steven Murphy.
 - c. Wed. p.m. – Raw Milk debate – Jeff Kornacki.
 - i. Volunteers requested to moderate – Paul Hall and Deon Mahoney volunteered.
2. Review of 2015 recommendations to the Board – approved and implemented.

New Business:

1. Ruth Eden has set up ask-bioexpert.com, a website that is an information exchange, discussions and Q&A.
2. Review of IAFF Dairy PDG Webpage – signing up for joining PDGs; update profile & resources of info requested.
3. Brainstorming breakout sessions to discover symposium and workshop ideas for IAFF 2017.
4. Non-Annual Meeting Activities:
 - a. Conference call dates and times reviewed – call to action to mark calendars.

Recommendations to the Executive Board: None.

Next Meeting Date: July 9, 2017, Tampa, Florida.

Meeting Adjourned: 2:50 p.m.

Chairperson: Dawn Terrell.

Developing Food Safety Professionals PDG

Attendees: Mueen Aslam, Brian Bedard, Austin Bernard, Julia Bradsher, Elizabeth Brown, Alexander Bruner, Kellie Burris, Vasco Cadavez, Byron Chaves, Jessica Chen, Stella Chen, Denise Cobiaishi, John Di Stefano, Minh Duong, Sarah Engstrom, Justin Falardeau, Lei Fang, Foivos Genigiorgis, Ursula Gonzales-Barron, Myriam Gutierrez, Alma-Sue Haiduk, Alexandre Hanley, Karen Holden, Ingrid Huntley, Michelle Iannucci, Barbara Ingham, Charles Kalish, Kathryn Kay, Margo King, Kalmia Kniel, Jeffrey Kornacki, Gina Kramer, Robert Kramer, Jonathan Lam, Paige LeMaster, Wan Mei Leong, Katrina Levine, Caitlin Lineback, Pushpinder Litt, Michelle Lovett, Deon Mahoney, Chip Manuel, Sherri McGarry, Robyn Miranda, Nathan Mirdamadi, Naim Montazeri, Emeffa Monu, Matthew Moore, Amit Morey, Valerie Morrill, Sara Mortimore, Sudarsan Muralidharan, Charles Muyanjanja, Joshua Nazareth, Yemi Ogunrinola, Katheryn Parraga, Stephanie Pollard, Natalie Pulido, Erin Raver, Danielle Robocon, Katie Satchwell, Kori Scherer, Dina Scott, Lingxiao Shao, Arlette Shazer, Vanessa Snyder, Michelle Stark, Ajita Sundarram, Deepika Suresh, Koi Techathuvanan, Ed Thompson, Grace Thompson, Angela Valadez, Lubomir Valik, Malcond Valladares, Akhila Vasani, Deklin Veenhuizen, Jeyachandran Visvalingam, Ben Warren, William Weichelt, Wendy White, Jian Wu, Lily Yang, Xun Yang, and Jiaojie Zheng. **Number of Attendees:** 85.

Meeting Called to Order: 3:15 p.m., Sunday, July 31, 2016.

Minutes Recording Secretary: Robyn Miranda.

Old Business:

Announcements:

- Reminder of our accepted 2016 PDG Sponsored Symposia:

1. RT11: How are We Going to Get Everyone Trained for FSMA?
2. S36: Competent People Doing Comparable Work: Developing Food Protection Professionals on a Global Scale.
3. RT2: The Global Food Safety Kaleidoscope: A Look at Food Safety Priorities through Various Cultural Lenses.
4. S33: Food Safety 2050: A Glimpse Into the Future.
5. S40: "If I can't pronounce it, I'm not eating it!" How Consumer Perceptions are Changing the Face of the Food Industry.

Co-sponsored Proposals –

1. RT7: I Got an Advanced Degree, Now What?
 - Join our PDG's LinkedIn Group; search "IAFF Developing Food Safety Professionals PDG" and Jessica Chen will approve your request.

New Business: The Developing Food Safety Professionals hosted the following roundtable discussion during the PDG meeting.

- Entrepreneurship and Consulting – An Interactive Roundtable.
- Panelists included: Jeffery Kornacki, President and Senior Technical Director, Kornacki Microbiology Solutions; Amit Morey, Assistant Professor, University of Auburn; Gina Kramer, Executive Director, Savour Food Safety International, Inc.

Following the roundtable discussion, a brainstorming session for PDG-sponsored symposia was held; suggested topics are in the attached addendum.

Recommendations to the Executive Board:

1. The PDG recommends the appointment of Dina Scott as Developing Food Safety Professionals, Vice Chair.
2. The PDG recommends the appointment of Robyn Miranda as Student Liaison to the Developing Food Safety Professionals.

Next Meeting Date: July 9, 2017, Tampa, Florida.

Meeting Adjourned: 5:15 p.m.

Chairperson: Jessica Chen.

Food Chemical Hazard and Food Allergy PDG

Attendees: Timothy Adams, Mohammad Alam, Joseph Baumert, Jerry Bennett, Sylvia Bergman, Richelle Beverly, Tom Bruursema, Marisa Bunning, Abigail Burrows, Rocelle Clavero, Jessica Cooper, David Crownover, Chuck Czuprynski, Ken Davenport, Brian Dimenna, Randolph Duverna, Kevin Edwards, Xuetong Fan, Sanjit Fernandes, Anthony Flood, Casey Fripp, Tong-Jen Fu, April Garza, Xiaowen Guo, Steve Hails, Paul Hanlon, John Heller, Brandee Hunter, Lauren Jackson, Tim Jackson, Adam Johnson, John Johnston, Don Jones, Jason Khoo, Sally Klinec, Brent Kobielush, Mansi Krishan, Mary Kay Krogull, John Larkin, Dung Le, Quanhong Li, Jiang Liang, Suzanne S. Mailman, Manu Manohar, Conor McGauran, Joseph Meyer, Quynh-Anh Nguyen, Cian O'Mahony, Suyapa Padilla Antunez, Karl Raabe, Tara Riley, Donna Rosenbaum, Bradley Russell, Gerard Ruth, Dojin Ryu, Aurora Saulo, Lee Yan Sheen, Weilin Shelver,

Pamela Sinderson, Frank Spiegelhalter, Haixia Sui, Steve Taylor, Jennifer Weber, Marielle Weintraub, Betsy Yakes, and Michelle You. **Number of Attendees:** 66.

Meeting Called to Order at: 3:16 p.m., Sunday, July 31, 2016.

Minutes Recording Secretary: Paul Hanlon.

Old Business:

- 2015 PDG Minutes: There no edits or updates recommended for the minutes from the 2015 meeting. Minutes were approved.

New Business:

- Antitrust Guidelines.
- Recognition of Past Chairs and Vice Chairs.
- Board update from Tim Jackson:
 - The IAFP Annual Meeting continues to grow.
 - Looking for more short symposium with 3–4 speakers in the session
 - Importance of connecting with other PDGs that may have an interest in a proposed topic.
 - Consider webinars as a possibility of distributing information – No restrictions on how many that IAFP can do in any calendar year, and they are preserved so that people can review them even after they are broadcast.
 - Workshops can be conducted at any time during the year. They don't have to happen only at the Annual Meeting. IAFP can help handle costs (like paying for speakers and other logistics) that would need to be sorted out for a workshop.
 - The chemical safety arena is gaining importance, especially with the implementation of FSMA.
 - Awards: IAFP feels it is important to recognize individuals who are contributing to IAFP initiatives.
- Overview of 2016 Approved Sessions (proposed by the Food Chemical Hazards and Food Allergy PDG).
- Discussion on Topics/Ideas for the IAFP 2017 Annual Meeting.
- Input/Feedback to the IAFP Board, PDG members encouraged to provide comments back if any.

Summary of Proposed Symposium/Webinar Topics

Topics selected for draft proposal development:

- IOM Expert Panel Report Summary: Steve Taylor (U of Nebraska) – IOM Expert Panel on Food Allergies. From prevention to treatment and everything in between. The report is finished and currently out for peer review. Hopefully it will be out in November 2016. Proposal would be for people from this Expert Panel who would come to IAFP 2017 to discuss the output of that opinion. Proposal would be for a 3–4 speakers, as most of the Expert Panel members would not be IAFP members.
 - Microbial modeling Risk modeling PDG could possibly have interest in this session.
 - Educating stakeholders, how do we communicate out about food allergens?

- IOM has a roll-out budget, so it could even cover some of the budget.
- FALPCA (Yesterday, Today and Tomorrow) Allergen Control Roundtable:
 - What are the root causes of unexpected situations where allergens could be present because of supply chain cross-contamination?
 - Impacts to industry – How to reflect the complex situation on labels.
 - Analytical challenges for both products and the supply chain.
- Intro to Prop 65, IARC and other chemical regulations:
 - Providing risk managers an overview of the issues that could impact them.
 - Possible impacts to FSMA implementation.
- Chasing Zero and more issues around analytical methods. There is a lot of misunderstanding around the impact that the selection/development of analytical methods can have.
 - Public perception is often focused on that any detection is a bad thing, but this is taken out of the context of risk.
 - Possibility of bringing in folks from somewhere like Consumer Reports to give their perspective.
 - Bringing in clean label discussion – what is needed to support a “no” claim – like antibiotic free.
 - Could also have an overlap with the allergen topic.

Other discussion

- Proposal from the microbial risk modeling and risk assessment group: Looking at the different aspects of risk assessment, possibly even a Roundtable.
- Proposal from the microbial risk and risk assessment group: Recent report from the EFSA guidance on uncertainty. Use some recent examples to look at this guidance and how to communicate this out to risk managers.
- Could also be building on a Debate from this year's meeting looking at risk aspects from both micro and chemical hazards.
- Clean Labels – Impacts of testing (how low do you have to go in testing to validate a “no” claim?). What is consumer perception? Does this fit into Chasing Zero as well? Aspects around public trust about where this information comes from.
- Radiological hazards – Impact of FSMA implementation. What happens during disaster situation (e.g., Fukushima)? Is it time to start focusing more resources on this topic?
 - Could have a link to the Seafood PDG as well.

Recommendations to the Executive Board:

1. Recommend approval of Tony Flood as Chair and Paul Hanlon as Vice Chair.

Next Meeting Date: July 9, 2017, Tampa, Florida.

Meeting Adjourned: The PDG meeting adjourned early to provide members time to review and discuss topics for the 2017 Annual Meeting. Additional details will be provided to the PDG via E-mail and conference call updates throughout the year.

Chairperson: Tony Flood.

Food Defense PDG

Attendees: Jean Anderson, Ruby Apilado, Fatemeh Ataei, David Baker, Stephanie Barnes, Colin Barthel, Peter Ben Embarek, Austin Bernard, Jessica Bernstein, Tejas Bhatt, Neil Bogart, Soo Hyun Chung, Meghan Cox, Shani Craighead, David Crownover, Ashley Cunningham, Nancy Dobmeier, Denise DuFresne, Phil Elliott, Bertrand Emond, Faye Feldstein, Sanjit Fernandes, Anthony Flood, Elise Forward, Samantha Gartley, Brian Giannini, Jonathan Glynn, Margaret Good, Christie Gray, Linda Harris, Emma Hartnett, Craig Henry, Brian Himelbloom, Diana Huang, William Huntley, Patricia Jaar, Brenda Keavey, Shaun Kennedy, Jason Khoo, Peggy Kleine, Jonathan Lam, Keith Lampel, Sharan Lanini, John Larkin, Brittany Laster, Dung Le, Loralyn Ledenbach, Quanhong Li, Jiang Liang, Pushpinder Litt, Antonio Lourenco, David Luedeke, Suzanne S Mailman, Amanda Manolis, Yvonne Masters, Amie Minor, Nathan Mirdamadi, Paul Morin, Steve Moris, Sudarsan Muralidharan, Ryan Newkirk, Penny Norquist, Ifeoluwa Olotu, Donald Pagh, Jenny Pierquet, Tyler Pigman, Gale Prince, Lance Reeve, Amy Rhodes, Tara Riley, Rona Robertson, Oscar Rodriguez-Gonzalez, Joyjit Saha, Melanie Scheaffer, Kristin Schill, Judy Sebastian, Muhammad Shahbaz, Weilin Shelver, Steven Sklare, Carolyn Steiner, Haixia Sui, Lisa Trimble, Jean Valbrun, Jennifer Van de Ligt, Leonel Vera, Li Wan, Jennifer Weber, William Weichelt, Frances Widjaja, Pamela Wilger, Shuang Wu, Jin Xu, Betsy Yakes, and Mustafa Yesil. **Number of Attendees:** 94.

Meeting Called to Order: 10:00 a.m., Sunday, July 31, 2016.

Minutes Recording Secretary: Oscar Rodriguez-Gonzalez.

Old Business:

- The anti-trust guidelines were reviewed, and accepted by the group.
- All persons in attendance at the commencement of the meeting had the opportunity to introduce themselves.
- Linda Harris, IAFP President-Elect, spoke about PDGs, meeting attendance, submission of proposals, and educational plans.
- The 2015 Symposia were reviewed, and ideas recycled.
- Board responses to previous recommendations from 2015 were reviewed.
- The 2016 Symposia were reviewed and included:
S11 – The next big thing: emerging biological, physical, chemical and cyber threats.
S26 – Advances in portable devices for food protection and defense. Room 240 on August 1.
S37 – Mitigating Intentional adulteration: what you should be doing today.
S38 – Food defense lessons learned from the 2015 U.S. Avian Influenza Outbreak.
S39 – A map for a safer future: applications of geographic information systems and remote sensing in food safety.

New Business:

- Reminded PDG members to submit nominations of worthy candidates for next year awards.
- Membership was reminded that IAFP 2017 proposals are due on October 4, 2016.
- Members were informed that the next IAFP meeting is going to be in Tampa, FL.
- A discussion about the name change of the PDG was held. The addition of the words “fraud” and “intentional adulteration” was proposed. The group agreed to revisit the idea in 2017.
- The reevaluation of the mission statement was proposed instead of the name change, and the group agreed to form a sub-committee to reevaluate the mission statement.
- Submission guidelines were discussed and will be shared with the members electronically.
- A brainstorming session for symposium ideas for IAFP 2017 was held, and the topics included:

Cyber threats/Cybercrime

Gale Prince (FPDI), Bertrand Emond (Campden BRI), and John Larkin (FPDI).

1. Cybersecurity – controllers in food processing operations expand on “air gap”, update (upgrade) electronic control tools, verification of accuracy, signal interference.
2. Cybercrime in UK emerging as regulation.
3. Food Protection and Defense Institute Food Factbook
4. Short symposium (1.5 – 2 hours)

Laboratory methods

Amie Minor (WV Dept. of Health), Brenda Keavey (WV Dept. of Ag) FDA ORA Research Office, and Penny Norkist (FPDI).

1. Innovation in laboratory methods, food emergency response network.
2. Radiological Agents.
3. Technical Session or Full Symposium (3 hours).

Vulnerability assessments

University of Minnesota, FPDI (John Larkin) and FDA Office of Food Defense – Ryan Newkirk and Colin Barthel.

1. Symposium with 3 speakers on Vulnerability Assessment.
2. A workshop was given approximately three years ago in Charlotte.
3. Vulnerability Assessment proposal submitted last year to IAFP was not accepted and need to discover where improvements can be made.
4. Workshop or full symposium (3 hours).

Risk management

Deloitte group – Meghan Cox, Gale Prince – GP, NSF – David J. Luedeke, and NRA – William L. Weichelt.

1. Food safety management systems, supplier management, risk ranking. Retail (in conjunction with HACCP PDG).
2. Crisis management in intentional adulteration events, overall company strategy on product integrity.
3. Cargo theft.
4. Symposium – Proposal will be done by HACCP PDG.

Best Practices

On Hold till 2018.

1. Best practices in Food Defense. Fraud session. EMA.
2. Possible workshop.

Economics of EMA

John Larkin (FPDI) and Elise Forward (Forward Food Solutions), FDA Office of Food Defense – Ryan Newkirk/Colin Barthel, Tejas Bhatt (IFT Center for Traceability), and Steve Sklare (US Pharmacopeial).

1. Economics of EMA, analogies with pharmaceutical industry, forensic science, criminal investigations. Product tampering threats, extortions.
2. Cargo theft.
3. Traceability.
4. GMO Food Fraud.
5. Long symposium (3 hours).

FSMA and food defense update

FDA, Office of Food Defense – Ryan and Colin.

1. FDA has plans for outreach during next year and can guarantee to have speakers for an update symposium.
2. Short symposium (1.5 to 2 hours).

Interagency collaboration

Peter Ben Embarek, (WHO) and MI Dept. of Ag (deed to reach out to Brad Deacon).

1. Session with international issues on inter-agency collaboration. Case studies.
2. MI Dept. of Ag recent incident in food defense.
3. Cargo Theft.
4. Short symposium (1.5 hours).

Farmers' Markets

Dubai/Middle East representative

1. Food defense and farmers' markets.
2. Need to have more discussion on this topic.
3. Student involvement

Request to assist with any of the symposia.

1. Student volunteers to help with symposia.
2. Student proposal on GMO as defense fraud, traceability.

Recommendations to the Executive Board:

1. To re-evaluate the mission statement for the PDG. The PDG plans to inform all the members of the PDG about the initiative, and assemble a sub-committee to re-evaluate the mission, and submit the recommendations to the Board.
2. Recommend the approval of Oscar Rodriguez-Gonzalez as Vice Chair of the Food Defense PDG who will take over as chair in 2018.

Next Meeting Date: July 9, 2017, Tampa, Florida.

Meeting Adjourned: 11:55 a.m.

Chairperson: Jennifer Pierquet.

Food Hygiene and Sanitation PDG

Attendees: Ryan Allarding, Jeff Anderson, Craig Ayres, Richard Brouillette, David Baker, Rachel Binet, Dave Blomquist, Patricia Borrusso, Tom Bruursema, Frances Buck, David Buckley, Greg Burnham, Rocelle Clavero, Denise Cobaiashi, Frederick Cook, Shani Craighead, Vanessa

Cranford, Ashley Cunningham, Ken Davenport, Leah Davey, Kelly Dawson, Thais De Melo Ramos, Yiran Ding, Nancy Dobmeier, Ruth Eden, Bertrand Emond, Tom England, Gerson Espindola, Elise Forward, Laura Gage, Cristal Garrison, Mike Garrison, Samantha Gartley, Foivos Genigiorgis, Chao Gong, Duane Grassmann, Susan Gregro, Dale Grinstead, Alexandre Hanley, Maureen Hanley, Margaret Hardin, Linda Harris, Joe Heinzelmann, Khurram Irshad, Ravi Jadeja, Bala Jagadeesan, Lee-Ann Jaykus, Alex Josowitz, Bianca Juarez, Matt Koloseike, Jeffrey Kornacki, Luke LaBorde, Yale Lary, Kaitlin Le, Fritz Lembke, David Luedeke, Chip Manuel, Thomas McCaskey, Ashley McCoy, John Merenick, Rob Middendorf, Nathan Mirdamadi, Jeff Mitchell, Naim Montazeri, Katie Moore, Steve Moris, Nadia Narine, Claudia Narvaez, Yemi Ogunrinola, Folarin Oguntoyinbo, Chris Okolo, Belem Ontiberos, Yanying Pan, Aaron Patch, Ruth Petran, Chuck Pettigrew, Suresh Pillai, John Porter, Tracy Posavatz, Phyllis Posy, Gale Prince, Mingyu Qiao, Tian Ren, Glenner Richards, Rona Robertson, Bradley Russell, Daniel Schmitz, Dina Scott, Muhammad Shahbaz, Arlette Shazer, David Shelep, Debra Smith, Christopher Spangenberg, Anna Starobin, Carolyn Steiner, Brian Umberson, Jaime Vaca, Jean Valbrun, Purnendu Vasavada, Zhinong Yan, Hongshun Yang, Alex Zeman, Lei Zhang, Yue Zheng, and Joseph Zindulis. **Number of Attendees:** 105.

Meeting Called to Order: 8:00 a.m., Sunday, July 31, 2016.

Minutes Recording Secretary: Nadia Pundit.

Old Business: Zhinong Yan, Ph.D., Director of Food Safety, Asia Pacific for Ecolab, stepped down as Vice Chair due to his new responsibilities in China. Yan will continue to be a significant IAFP contributor and be very active in our PDG.

New Business:

- Yale Lary opened the meeting and presented an overview of the Anti-Trust Guidelines. All attendees introduced themselves.
- President-Elect Linda Harris spoke to the PDG as a representative of the Board:
 - PDGs are very important to the function of the IAFP.
 - Largest exhibit hall, largest number of exhibitors, and 34 new exhibitors.
 - Symposia and half-symposia are standardized to 30-minute talks per speaker.

Three Short Presentations

1. Condensation Management Film – Ken Davenport.
 - Condensation is not just a cleaning problem, but a food safety problem.
 - 3M Condensation Management Film disperses water using micro-replicated tapes.
 - Is used around overhead pipes, the tape reduces condensate.
 - Replace the tape quarterly to prevent potential of harborage.
 - Although 3M makes no claims, studies have shown the tape doesn't support bacteria because it is so dry.

Suggestions/Questions

- Jeff Kornacki – what is the build-up of microbes over time?
- Fred Cook – do you have color indicator for wetness?

- Dale Grinstead – any studies on cleanability of the bigger surface area this product produces?
 - Is there a distance from food surface contacts that this can be applied? Deferred to Steve Swanson.
2. Hygienic Design for Cleaning Brushes – Deb Smith
- Most brush designs on the market are very un-cleanable.
 - Used fluorescent markers to analyze cleanability of various commercial brushes.
 - Cleaning equipment itself a major source and vector of cross-contamination.
 - 47% of cleaning equipment/utensils had *Listeria* three times higher than what was expected to be found in drains.
 - Brush-decontamination procedure typically dumping in a bucket with sanitized water and not in-between each bristle and specifically in the drill holes is where harborage occurs.
 - Vikon designed its own fully-molded, shaped bristle design that is more cleanable.

Suggestions/Questions:

- *Listeria* testing collaborations – demonstrating cleanability from micro standpoint.
 - Apply this technology to produce “roller brushes” (ex. Apples).
3. LeeAnn Jaykus with NC State University provided an update on the NoroCore Project:
- The NoroCore Project is a \$25 million grant through USDA NIFA. NCSU is the lead institution with more than 15 partner institutions and many stakeholder groups.
 - Focus on foodborne virus on Human Norovirus divided into six areas:
 - Molecular Virology.
 - Detection.
 - Epidemiology and Risk Analysis.
 - Prevention and Control.
 - Outreach and Education.
 - Building capacity/education.

Items of recent output from this project will be discussed in detail at the IAFP meeting but the following were briefly described:

- An environmental survey of the public restroom showed evidence of norovirus contamination, prevalence.
- The importance of the food handler in transmission of foodborne norovirus has been confirmed by CDC.
- A mathematical model to estimate norovirus transmission/contamination has been developed and can be used for risk assessment purposes. Healthcare is the first venue to which it will be applied.
- The NoroCore team is developing editable guidelines for recommended methods to clean and disinfect after vomiting and fecal contamination events.
- NYU is developing an “app” for public reporting of gastroenteritis symptoms that will be beta tested in public schools.

- A few questions were posed relative to norovirus transmission, sanitation and disinfection followed by brief discussion.
- Ken Davenport has agreed to complete the Vice Chair term vacated by Zhinong which ends just prior to the 2017 Annual Meeting. However, Ken will be unable to serve as Chair at IAFP 2017 since he is currently the Chair of the Food Packaging PDG, up to IAFP 2018. Vanessa Cranford has agreed to serve as Chair, beginning at the 2017 Annual Meeting, and Ken will serve as Vice Chair.

Development of Ideas for IAFP 2017

- Our PDG had active back-and-forth discussions of ideas.
- The majority of our members were engaged with the discussions and volunteered to help with the various proposals.
- There was an obvious majority interest in developing refreshed and modern “back to the basics” educational materials for sanitation associates that do not have an advanced knowledge of microbiology or equipment design.

Recommendations to the Executive Board:

1. Open the registration booths at 7:30 a.m. on Sunday.
2. Consider endorsing an ongoing advanced sanitation and equipment design workshop.
3. Due to current Vice Chair Zhinong Yan stepping down from his position, we recommend Vanessa Cranford be approved to complete his term up to IAFP 2017. We also recommend approval of Ken Davenport as Vice Chair-elect and Nadia Narine as Secretary for the same time period. Beginning at IAFP 2017, we recommend the Board approve Vanessa Cranford to serve as Chair, Ken Davenport as Vice Chair and Nadia Narine as Vice Chair-elect.

Next Meeting Date: July 9, 2017, Tampa, Florida.

Meeting Adjourned: 10:00 a.m.

Chairperson: Yale Lary, Jr.

Food Law PDG

Attendees: Mohammad Alam, Jennifer Anders, Ruby Apilado, Fatemeh Ataei, Stephanie Barnes, Sharon Beals, Wendy Bedale, DeAnn Benesh, Robert Buchanan, Thomas Burke, Brigitte Cadieux, Mark Carkhuff, Stella Chen, David Cook, James Cook, Meghan Cox, Carl Custer, Caroline DeWaal, Minh Duong, Ruth Eden, Eric Edmunds, Blanca Escudero-Abarca, Lei Fang, Faye Feldstein, Katie Fernandez, Helen Fong, Elise Forward, Jayanthi Gangiredla, Steven Gendel, Christie Gray, Xiaowen Guo, Myriam Gutierrez, Margaret Hardin, Jane Hayford, Craig Henry, Sunee Himathongkham, Kirsten Hirneisen, Atef Idriss, Timothy Jackson, Tim Jenkins, Maputa Kamulete, Shaun Kennedy, Jason Khoo, Peggy Kleine, Elisabetta Lambertini, Susan Linn, Deon Mahoney, Emefa Monu, Melanie Neumann, Suyapa Padilla Antunez, Donna Pahl, Regina Petrasch, Kimberly Rice, Tanya Roberts, Arlette Shazer, Jennifer Sinatra, Steven Sklare, Marianna Solorio, Chalinee Srinimnuan, Gloria Swick-Brown, Koi Techathuvanan, Malcond Valladares, Jennifer Van de Ligt, Dave Wankowski, Lisa Weddig, Christina Wilson, and Lily Yang. **Number of Attendees:** 68.

Meeting Called to Order: 3:15 p.m., Sunday, July 31, 2107. Chair Christie Gray opened the meeting, welcomed members, gave an overview of the agenda, and asked members to introduce themselves. There were several attendees new to the Food Law PDG.

Minutes Recording Secretary: Tim Jenkins.

Old Business:

- Christie referenced the meeting minutes from 2015 and opened the floor for discussion. There was none. She let people know that the minutes are housed on the IAFP website (<https://www.foodprotection.org/get-involved/professional-development-groups/food-law-professional-development-group/>). There were no questions regarding the minutes. Christie asked for a motion to approve the minutes. Carl Custer motioned to approve. Craig Henry seconded the motion. Christie called for a vote. There was a majority of affirmative votes and no dissensions (nays). Christie approved the minutes.
- Christie recapped symposia the Food Law PDG sponsored and/or collaborated on in 2015/2016 and webinars since the 2015 Annual Meeting, thanked and congratulated those involved. Great work, collaboration, and contributions Food Law PDG.

Symposia

- Is *Salmonella* an Adulterant in Raw Meat and Poultry? – Carl Custer, Rachel Miller, Denis Stearns.
- How Do We Measure the Effectiveness of Regulatory Food Safety Programs? – Donald Zink, Ernest Julian, Roger Cook, Beth Cannon.
- Information and the Creation of Positive Economic Incentives for Food Safety Performance – Robert Scharff, Patricia Griffin, Clare Narrod, Mark Miller, Denis Stearns.
- Integrating Food Safety into Food Security – Mary Kenny, David Crean, Ruth Oniango.
- Approaches to Safe Use of Irrigation and Wash Water in the Face of Increased Global Water Shortages – Suresh D. Pillai, Manan Sharma, Ewen Todd, Osama El-Tawil.

Webinars

- The Global Burden of Foodborne Disease – Results and perspectives of WHO's Foodborne Disease Burden Epidemiology Reference Group (FERG). Arie Hendrik Havelaar, Emerging Pathogens Institute, University of Florida; Marcel Zwietering, Moderator, Wageningen University (February 9, 2016).
- The FDA Food Safety Modernization Act: Discussion of the Final Rules on Preventive Controls for Human Food and Produce Safety. (November 18, 2015).

New Business:

- Ruth Eden, who has worked extensively in the food protection field, and now involved with the development of ask-bioexpert.com, presented to the PDG about a website she is creating that consists of an interactive forum for the discussion of topics facing the food safety community – a place for the exchange of information, to get expert opinions, and to deal with

hot topics as they emerge and also to get the latest industry news. The resources allow community members to ask questions, view previously asked questions and their answers, or join in the discussion on a question or a topic. The website also would allow, for example, a page dedicated to the Food Law PDG, where questions related to topics of the group are posted. Any knowledgeable member can volunteer to answer questions he/she chooses.

Ruth invited members of the Food Law PDG to get involved to learn from the expert panel and get access to their knowledge. For the experts, it is an opportunity to help the community and evolve their expertise. This will be a great opportunity to stand out in the industry as an expert of your field and help shape the information exchange. It can be an invaluable resource to the food safety community. Ruth invited members of the PDG to review ask-bioexpert.com, encouraged members to try the site out and comment to her on how to make it better. Ruth Eden, ruth@ask-bioexpert.com.

- Christie provided updates/insights from the Committee/PDG Chair/Vice Chair Meeting held on July 30, 2016.
- Chairs/Vice Chairs requested of the Program Committee that approved symposia are shared with the PDG chairs and vice-chairs so they can more easily suggest opportunities of coordination and collaboration among PDGs.
- IAFP members can now directly update their PDG affiliations by logging into the IAFP web site; click Edit Profile on the Member Dashboard, then the Professional Info tab, then select any PDG to add or delete.
- The deadline for IAFP 2017 symposia, roundtable and workshop proposals is October 4, 2016.
- Tim Jenkins gave a presentation on the **Healthy Food Safe Food Project** that is happening in the State of Minnesota. Tim works for Minnesota Department of Health as food access coordinator, working statewide to increase availability and access to healthy, safe food and assist MDH and University of Minnesota Extension to integrate food safety in food systems, healthy eating, and nutrition efforts among staff engaged in these activities statewide through research effort called the Healthy Food Safe Food project, the Minnesota Food Charter Network, the Statewide Health Improvement Program (SHIP), and Extension SNAP-Ed.
- Tim worked also with IAFP colleagues, Atef Idris, Betsy Bihn, Nathan Anderson, and Mary Lou Tortorello to organize a round table symposium "Food Safety vs. Food Availability: Do we have to choose?" which had panelist Shaun Kennedy, Bob Buchanan, Michelle Smith and Mieke Uyttendaele and Atina Diffley, a farmer, writer, and trainer for farmer and growers. The roundtable generated a rich dialogue that led to the publication of a paper in *Food Protection Trends*, with the same title as the roundtable. (*Food Protection Trends*, 2016, Vol. 36, No. 1, pages 72–78.

- Efforts to address the obesity epidemic, reduce chronic diseases (now appearing more and more in children) and eliminate health disparities are focusing on improving access to healthier, fresher, foods such as whole grains, fruits, vegetables, and lean protein sources and so the importance of food safety is heightened at all points of the food production system at which foodborne illness risks can be controlled or minimized. Both food access and food safety also encompass economics, policy, system and environmental factors, social and cultural issues that go far beyond the food supply alone. Safe and nutritious food is a basic individual need and both food safety and food access/availability/security are needed to protect and improve human health. If they are better integrated in a systems approach the food system, globally to locally, as a whole is improved.
- Tim invited members to collaborate on a symposium in 2017 that would explore the intersecting and sometimes conflicting objectives of the various sectors and disciplines that interface with the food system.

Christie introduced IAFP Board Liaison, Tim Jackson who provided updates:

- *JFP* online will be up and running by December 31, 2016.
- The Program Committee feels that symposia with a maximum of three to four speakers are more effective and allow for a more thorough coverage of content. There will be approximately only 79 slots available in 2017 for sessions. Tim stressed to look for opportunities to collaborate with other PDGs on sessions.
- Workshops and webinars are other great options that have been successful and can be done throughout the year. They are a good way to educate and communicate with a broader audience.
- Tim requested that members start a list of award candidates so that they have a head start if moved to nominate a colleague when the call for awards arrives.

Tim thanked members and expressed that PDGs are the life-blood of IAFP!

Food Law PDG 2017 Symposia Ideas Discussion and Ideas

- New Member. Prosecution of food safety negligence. Case studies, i.e., Peanut Corporation of America.
- Faye Feldstein: My New FSMA Inspection is Coming: Expectations on Both Sides. New regulatory paradigms under FSMA "Where the rubber meets the road" A conversation about how regulators are partnering with industry on implementing FSMA a year later. FDA and industry sharing lessons learned nationally and internationally.
- Tim Jenkins, Atef Idris, with Produce PDG: Healthy Food, Safe Food, Sustainable Food System. Examine the intersections between nutrition, food protection, and food system sust-

ainability and discuss actions that IAFP and respective fields could take to advance collaborations and solve problems created by conflicting objectives.

- Atef Idris, Elise Forward: How to better implement food law in developing nations with FSMA now in place. Building the regulatory infrastructure needed from regulators, to trainers, lawyers, laboratories, traceability, surveillance, etc. Creating food Safety agencies that can succeed in the developing world. Considerations/suggestions from members:
 - Outreach to people in other parts of the world who can't travel to IAFP.
 - Collaborate with the pre-harvest group in the interest of increasing the quality and safety of produce from global sources.
 - Explore the process of going from global rules to FSMA standards.
 - Compare developing nations to the U.S. regarding implementation of standards.
 - Collaborate with international affiliates.
 - Cover each government's right to establish food law. Codex is used the absence of food law as the minimum standard. FAO helps the countries that need assistance establishing food law.
 - Cover the resources and organizations to which nations have access to establish a food safety system and standards.
- Bob Buchanan: Agricultural Law, University of Maryland law school is developing programming in agricultural law with the issuance of produce safety rules. Introduce the agriculture lawyers who are used to working with farmers to the food lawyers who are not used to working with farmers.
- Request from the Dairy PDG for Food Law to sponsor a session on trends in Dairy Regulations. Vice Chair of the student PDG would like to collaborate. Student PDG is interested in artisan cheese safety/regulations.
- New member: Explore Trans-Pacific Partnership (TPP) & Transatlantic Trade and Investment Partnership (TTIP) (<https://www.brookings.edu/2015/05/20/tpp-ttip-key-trade-deal-terms-explained/>) in regard to the harmonization of food regulations between trading partners. Examine European standards vs. U.S. standards.
- Caroline DeWaal, Brigitte Cadieux, Atef Idris and other members: Development of New Frameworks for International Alignment national food safety/control systems. Safe Food for Canadians Act, Australia, Mexico, etc. Members suggestions/feedback:
 - Responsibility for FMSA compliance is with the importer. Foreign supplier verification is a business-to-business relationship but alignment of foreign governments is important to consider.
 - Compare multiple nations that have done or are in the process of food safety modernization.
 - IAFP is ideal to facilitate the dialog and discussion.
 - International PDG is a suggested partner.

Additional idea for education and outreach from Caroline DeWaal: Food Law PDG members published a series of seven articles on FSMA in 2014 and now that we have FSMA in place, the articles could be updated. IAFP has a web page specifically for the articles that break FSMA down for professionals.

Food Safety Modernization Act: A Series on What is Essential for a Food Professional to Know. The U.S. Food Safety Modernization Act (FSMA) is a significant and far reaching update of the laws and subsequent regulations that affect the safety of domestically produced and imported foods regulated by the Food and Drug Administration (FDA). Through FSMA, the U.S. Congress provides the FDA with greater powers and direct it to develop regulations that will focus the food industry on the prevention of foodborne illness. This series of articles will describe the legal “basics” for the readers of *Food Protection Trends*. <https://www.foodprotection.org/resources/food-safety-modernization-act/>.

Christie Gray and Caroline are the lead contacts for those interested in joining a team to advance this effort.

Numbered Recommendations to the Executive Board:

1. Recommend approval of Tim Jenkins as Chair beginning at the IAFP 2017 Annual Meeting.

Next Meeting Date: July 9, 2017, Tampa Florida.

Meeting Adjourned: 5:00 p.m.

Chairperson: Christie Gray.

Food Packaging PDG

Attendees: S. Balamurugan, Christine Bruhn, John Bruhn, Aimee Buechler, Mark Carkhuff, Ruplal Choudhary, LeAnn Chuboff, Kay Cooksey, Ken Davenport, Cynthia Ebner, Tom England, Sanjit Fernandes, Nicholas Forshee, Gary Gamble, Dibash Gautam, Dale Grinstead, Alexandre Hanley, Maureen Hanley, Upasana Hariram, Linda Harris, Fawzy Hashem, Tony Jin, Mansi Krishan, Paige LeMaster, Katie Liang, Caitlinn Lineback, Pushpinder Litt, Shuxiang Liu, Conor McGauran, Charles Muyanjanja, James O'Donnell, Folarin Oguntoyinbo, Cian O'Mahony, Michele Oostenbrug, Regina Petrasch, John Porter, Erin Raver, Glenner Richards, Joyjit Saha, Haixia Sui, and Danhui Wang. **Number of Attendees:** 41.

Meeting Called to Order: 1:10 p.m., Sunday, July 31, 2016.

Minutes Recording Secretary: Nick Forshee.

The IAFP antitrust guidelines were reviewed.

A message to the PDG from outgoing Chairperson Linda Leake was shared by Ken Davenport in her absence. All in attendance introduced themselves, shared information regarding their professional background, and provided some fun tidbits about their personal lives.

Old Business: The minutes of the 2015 Annual Meeting can be found online at <http://www.foodprotection.org/get-involved/professional-development-groups/food-packaging-pdg/>. All members were advised to review these notes and reach out to Ken Davenport or Nick Forshee with questions or suggestions.

Ken Davenport reported that the packaging PDG had two symposia accepted for 2016. The two symposia were briefly discussed and will be presented on Wednesday, August 3, per times noted below.

- 8:30 a.m. to 10:00 a.m. – Antimicrobial Food Packaging: Breakthroughs and Benefits That Impact Food Safety. Dale Grinstead, Kay Cooksey, and Tony Jin.

- 10:30 a.m. to 12:00 p.m. – Close Call: Assessing Risks of Food Packaging That Can Impact Food Safety. Larry Keener, Andy Hwang, and Nick Forshee.

New Business:

Ken Davenport introduced and congratulated Nick Forshee as the newly-elected Vice Chair of the Food Packaging PDG for a two-year term. He thanked everyone for their participation in the recent online election.

Ken Davenport provided a brief report of the PDG chairs/vice chairs meeting on Saturday, July 30, 2016. Key take-aways include 1) New badge-scanning system when entering meetings which will allow easy recording of attendance; and (2) Symposia ideas for 2017 are to be developed/discussed in the PDG meetings and aligned on during the PDG Chair/Vice Chairperson Breakfast.

Linda Harris, the Packaging PDG Board Liaison, greeted everyone present and provided updates from the Board related to the 2016 Annual Meeting. She updated the PDG on this year's attendance, which included record numbers for exhibitors (175), projected attendance (3,400), and overall IAFP membership (4,100, of which 20% is international).

Ken Davenport proposed a new method of brainstorming called Lotus Blossom. The group utilized this to develop ideas for packaging related proposals for symposia, roundtables and workshops for the 2017 IAFP Annual Meeting in Tampa, Florida. The activity went over very well with the group and all those present were engaged.

Several ideas were put up, discussed, sorted, and the final output includes:

1. Active Packaging Symposia. Cynthia Ebner & Dale Grinstead. Must ensure this is significantly different than 2016 symposia.
2. Intelligent Packaging Symposia. Kay Cooksey and Ruplal Choudhary.
3. Common Packaging Failures Symposia. Cian O'Mahony & Nick Forshee.
4. Packaging 101/ABC's of Packaging Webinar/Training Deck or Workshop. Nick Forshee, Kay Cooksey, and Packaging PDG collaboration.
5. Nano Materials Roundtable. Ken Davenport to organize.

Other ideas that were discussed for future consideration:

1. Regulatory Requirements of Packaging.
2. Sustainable Packaging.
3. Low Cost Packaging.
4. Communication through Packaging.
5. Shelf Life.

Additional news included the desire to be more involved in packaging related posters and abstracts. The intent is to highlight some of the work that is being conducted and potentially discuss selected posters/abstracts at the annual Packaging PDG meeting.

Overall, the meeting was well attended and topics invoked open discussions among the group. There was great collaboration and input and it was clear that those in attendance shared a strong passion to know and learn more about packaging.

Recommendations to the Executive Board:

1. Please approve Nick Forshee as the new Vice Chairperson of the Food Packaging PDG to serve a two-year term and then to become Chair at the Annual Meeting in 2018 for a two-year term.
2. Add "Packaging" as a category for posters, abstracts, etc. in the Annual Meeting app so that the program is searchable by sponsoring PDG and posters are categorized and grouped for easy browsing.
3. We would like to recommend a Packaging PDG-sponsored award to highlight excellence in packaging for posters and/or symposia speakers.
4. Investigate and/or provide instructions for continuing education credits for webinars or workshops through IAFP.

Next Meeting Date: July 9, 2017 in Tampa, Florida.

The Meeting was Adjourned at 3:00 p.m.

Chairperson Name: Ken Davenport.

Food Safety Education PDG

Attendees: Achyut Adhikari, Sultan Al Tahir, Susan Algeo, Ryan Allarding, Elizabeth Andress, Fernando Avelleyra, Leen Baert, Christopher Baker, Brian Bedard, Richelle Beverly, Sharon Birkett, Jason Bolton, Adam Borger, Patricia Borrusso, Christine Bruhn, John Bruhn, Frances Buck, Martin Bucknavage, Marisa Bunning, Shiyu Cai, Jonathan Campbell, Andrew Capps, Thomas Carlisle, Luis Cervantes, Mary Saucier Choate, Ruplal Choudhary, Jeffrey Clark, David Cook, Martin D'Agostino, Heidy Den Besten, Vaishali Dharmarha, Yiran Ding, Nancy Dobmeier, Darrell Donahue, Diane Ducharme, Minh Duong, Ashley Eisenbeiser, Ellen Evans, Laurie Farmer, Shelley Feist, Yaohua Feng, Foivos Genigiorgis, Catherine Gensler, Leon Gorris, Dale Grinstead, Steve Hails, Alexandre Hanley, Maureen Hanley, Fawzy Hashem, Daniel Hauersperger, Shauna Henley, Brian Himelbloom, Lauren Hudson, Sanja Ilic, Barbara Ingham, Bala Jagadeesan, Julie Jean, Katie Jenkins, Lynette Johnston, Jenifer Kane, Jang Ho Kim, Kasey King, Margo King, Kalmia Kniel, Kathy Knutson, Katrina Levine, Teressa Lopez, Tatiana Lorca, Maria Lovelace-Johnson, Barakat Mahmoud, Mayra Marquez, Rachel McEgan, Deborah McIntyre, Kathryn Metzger, Rob Middendorf, Nathan Mirdamadi, Holly Mockus, Bernard Monahan, Sara Mortimore, Sergio Nieto, Lindsay Nix, James O'Donnell, Fabrice Peladan, Ruth Petran, Tyler Pigman, Lori Pivarnik, Molly Powell, Jennifer Quinlan, Vincent Radke, Rona Robertson, Muhammad Khalid Saeed, Judy Sebastian, Adrienne Shearer, Valentin Sierra, Shelendra Singh, Brenda Stahl, Matthew Stasiewicz, Clint Stevenson, Nicholas Steward, Tori Stivers, Helen Taylor, Joanne Taylor, Phillip Tocco, Stephen Tracey, Mike Villaneva, Carol Wallace, Isabel Walls, Todd Wegner, Wenqing Xu, Lily Yang, Ian Young, Edith Zambrana, and Marcel Zwietering. **Number of Attendees:** 113.

Meeting Called to Order: 3:15 p.m. Sunday, July 31, 2016.

Minutes Recording Secretary: Ellen Wyn Evans.

- Carol Wallace introduced herself as Chair of the PDG and welcomed existing and new members to the PDG and ran through the agenda for the meeting.
- Apologies were sent on behalf of Brita Ball (Vice Chair).

- Preliminary general announcements made.
- Carol reviewed the antitrust guidelines, and discussed the function of the PDG to be a forum of sharing.

Report from IAFP Executive Board:

- No Board/staff members present to deliver report from the IAFP Executive Board. Board Representative did join meeting later but unfortunately timing was such that it wasn't possible to build in report.
- Carol informed the PDG that the Annual Meeting was expected to be another record breaking attendance.

Old Business:

Update from last year:

- As part of the 2015 PDG, the attendees broke out into smaller workshop groups – consumer, industry and academic – to discuss issues and ideas relating to food safety education. The session raised ideas of roundtables and symposium suggestions. This resulted in a number of sessions put forward. PDG supported a number of other ideas from other PDGs. Good level of success of items accepted that were put forward by the PDG.
- Two proposals supported by the Food Safety Education PDG were successful, including:
 - RT6. How to fix food safety education and enhance training effectiveness.
 - S51. An international perspective on the development of targeted food safety education for vulnerable populations.

New Business:

Vice Chair Vacancy

- a. Call for a Food Safety Education PDG Vice Chair to begin serving at the IAFP 2017 PDG meeting had previously been made to PDG members with the notice of the meeting. Following expression of interest, one nomination was received. Carol opened the call to the floor; no further expressions of interests were made. Francie Buck was the sole nominee.
- b. Francie Buck was invited to address the group. Francie works with Sealed Air with 15 years' experience including food safety training. Discussed ideas for symposium and previous roundtables, gave insight on how roundtables can be successful. Carol suggested that PDG forward Francie as future
- c. Following a show of hands and no objections, the motion was carried.

Guest Speakers: Presentations on topics of interest to PDG members relating to food safety training of employees and education of consumers.

1. Bertrand Emond – Presentation on the Campden BRI Food Safety Training Survey.
 - a. Global Food Safety Training Survey 2016. Conducted over the last four years, believed to be the largest food safety training survey, goes

- to 25,000 sites world-wide with BRC, SGS, SQF and TSI as an identified need for benchmarking. (Response rate for 2016 survey $n=1,500$). The survey on the training of employees in the food industry included SME to large businesses and included all sector categories and included global respondents – 35% USA. The Data obtained from the survey provides invaluable information that enables businesses to benchmark their food safety training against other food manufacturers and processors from around the world and identify opportunities for development of training and education in the food industry.
- b. Perceived FS training function – only 8% believed it to be the responsibility of human resources, suggesting that many companies are not exploiting the specialist expertise available in their HR departments. Traditional training methods are still favored over online methods as the majority of training was reported to be ‘on the job,’ findings suggested that computer-based learning is not highly used for the training of employees in the food industry, suggesting that food businesses are not integrating with new technologies. Self-reported training hours varied between employees and managers; suggested that lack of training but also that training activity is often underestimated. Personal hygiene most frequently included in training. Main training deficiencies included lack of understanding by employee and lack of refresher training. The understanding/impact of training was reported to be assessed by methods including records of attendance and successful completion of quizzes. Behavior is measured by internal audit programme. Further to lack of computer based training, the survey determined greater reliance on paper based management of training records than excel spreadsheets. The majority of businesses have formal annual training plans. Cumulatively, management were perceived as having responsibility for the food safety training of employees in the food industry.
 - c. The survey identified that the training goals of many businesses were to improve the food safety culture of the organisation and increase effective employee engagement in the workplace. Completion of the survey suggested that food safety training in the food industry needs to be relevant and current. The perceived benefits of training were improved product quality, improved food safety culture and fewer food safety incidents. Challenges for training were identified to be a lack of resources and lack of culture. Biggest challenges were recruitment. The survey also established that people entering the food business may not have sufficient food safety training. Indeed, equipment suppliers staff do not receive food safety training. Time is the greatest challenge in relation to food safety training in the food industry. Consequently the research concluded that 54% believe there is a need for the development of a Food Safety training standards.
- d. Following a question from the floor regarding the tracking of differences in responses year-to-year, Bertrand reported that despite in-depth analysis, no significant changes year-to-year have been identified with regards to perceptions and self-reported training efforts, thus suggesting the potential need for the development of the food safety training standard.
 - e. Following a question from the floor regarding the exclusion of countries with developing economies, Bertrand discussed that differences would be expected between developing and developed countries. However acknowledged potential bias in responses due to inclusion criteria of recruiting businesses through partners including food industry members of SQF Institute, BRC, SGS and TSI, but remains an extremely valuable benchmarking tool.
 - f. Bertrand made an additional comment that Safe Food Canada study had similar findings from in-depth research conducted with 20 businesses. (Information regarding <http://www.foodincanada.com/food-in-canada/safe-food-canada-releases-first-study-133529/>)
 - g. Presentation will be sent out to PDG members following the meeting, but can also be accessed at: <https://www.campdenbri.co.uk/training/global-foodsafetytrainingsurvey2016.pdf>
2. Laura Nelson – Closing the gaps in food safety training, results from the global food safety training survey. Update on the work of Alchemy in building on the Campden BRI survey.
 - a. Completion of the survey has been useful for benchmarking to improve training. Perceived benefits identified in the survey indicate the commitment of the industry in relation to training and education of the workforce, as research findings indicate that the food industry believe that training will benefit the company and the industry.
 - b. Research established that lots of training commitments exist, including; GMP, personal hygiene, food safety culture, traceability and recalls, internal audit training. It was suggested that it is important to distinguish between the training of employees and supervisors.
 - c. Gaps identified – 62% of respondents reported that despite training, some staff will still not follow the food safety programme. Emphasis placed on “learning doesn’t translate to doing.” Eighty-seven percent of respondents reported a lack of formal skills/job training for new and existing employees to be a challenge in relation to food safety training.
 - d. Contributors to lack of training included:
 - i. Training is too complex.
 - ii. Not engaging, not targeted.
 - iii. Delivery doesn’t enable retaining of information.
 - iv. Training is not reinforced consistently. Supervisors struggle with driving food safety, there is a need for businesses to engage with coaching and mentoring, which results in a ‘team like’ food safety culture emerging to drive forward business critical behaviors.

- v. Training programs need to change to accommodate preferences for learning.
 - vi. Management drives food safety training, frontline staff need food safety training to ensure compliance and improve food safety culture.
 - vii. Training staff to identify potential issues on-site was discussed to be of benefit to businesses.
 - viii. Training for job task is not provided due to lack of time.
- e. Temporary workers training requirements remains a problem area.
 - f. Research has identified the need for metrics to define better training. Leading indicators included product quality; however is very different to observing current employee behavior.
 - g. For food safety awareness, the 'forgetting curve' was introduced to the PDG members. It is suggested that 90% of knowledge is lost in a week following employee training.
 - h. Training problems with staff retention was discussed, and the need for innovative ways to enable operators to obtain training was suggested.
 - i. Suggestions for the implementation of training improvement included:
 - i. Simplify training.
 - ii. Ensure training is engaging.
 - iii. Provide supervisory training.
 - iv. Align training topics to key business outcomes, targeted training according to business needs.
 - v. Deploy coaching/mentoring.
 - vi. Create and analyse training metrics.
 - j. Global Food Safety Training Survey White paper available at: <http://www.alchemy-systems.com/food-production/resources/research/>.
3. Lone Jaspersen – Give the food safety learner a chance. Safe Food Canada update. Update on Canadian Education Competency Framework and Training Quality Standard.
- a. Safe Food Canada looking at competencies and IFPTI. Discussed that the Campden BRI data is needed by the industry to give insight regarding training and to enable progress, particularly as the data do not show an improvement.
 - b. Need to explore the methods of evaluating training and identify a need for a training quality standard, to assess if training has been designed to a certain standard, is the delivery method the best for the target audience, and is the method of assessing impact working. Need for a publicly available standard. Results in the ability to purchase training package developed to a certain standard.
 - c. Discussed the importance of competency based learning and the potential use of Micro learning (training/education over less than four minutes).
- d. In response to questions from the floor regarding design of materials, Lone discussed the critical importance of structural design for optimal learning and the need to teach trainers how to educate effectively.
 - e. Following a question from the floor regarding what has changed? Lone responded that the Safe Food Canada white paper last year had identified the need for the Food Safety Training Standard and there has been an increased interest including from PDG member. Lone welcomed the involvement of the food safety education PDG member and also welcomed the opportunity for students to be involved in the process.
4. Shelley Feist – Update on consumer education: Consumer Food Safety Education Conference and consumer outreach efforts.
- a. Partnership for Food Safety Education is a collaboration of 26 organizations in the USA. The next consumer food safety conference is to be held on January 25, 2017 in Washington, D.C. The conference will focus on behavior change. Shelley discussed that there is currently a hunger for how to change consumer behaviour. Kathy Means and Frank Yiannas are chairs for the conference. Lou Atkins will be the key note speaker. Breakout themes include food safety perceptions and physical design to impact on behavior. Author of 'Power of Habit' Charles Duhigg will close the conference. Shelley discussed how learning from consumer food safety behavior can be of benefit for the industry to improve behaviour. Registration for the conference opens in September.
 - b. Question regarding the need for earlier FS training. Response: GMA education foundation – hands on programme – middle school program for FS education in 15 states. Youth education likely to be discussed tomorrow in panel. Reaching millennialist beyond PowerPoint.
 - c. "The Story of Your Dinner" will launch November 1, for which the partnership for Food Safety Education is partnering with sponsors Cargill, the Frozen Food Foundation, Nestlé USA, and Publix Super Markets. The campaign, focusing on the Southeastern U.S. — primarily Alabama, Florida, Georgia, Mississippi, North Carolina, South Carolina, and Tennessee, aims to improve consumer food safety practices in the home for Thanksgiving. Shelley welcomed food safety education PDG members to participate in the webinar in the run up to the campaign.
 - i. The story of your dinner webinar registration. Wednesday, August 24, 2016. <https://attendeegotowebinar.com/register/1115233920765323266?splash=false>.
- Ideas Workshop:**
1. For the workshop activity, the food safety education PDG members formed subgroups including Consumer Educators, Industry Educators, and Academic Educators, with some smaller sub-groups to discuss ideas for work and activities over the year with a focus upon the development of Symposium

and Roundtable ideas given that 'Developments in food safety education' is a priority topic by the Board for the Tampa IAFFP 2017 program.

2. Consumer Educators group:
 - a. Food safety education – social media inclusion of food safety advice into recipes. Safety subtitles in food videos.
 - b. Teaching youth food safety life skills.
 - c. Symposium on vulnerable groups – continue.
 - d. Theory based approach to develop food safety education for target population groups. Using behavioral change theories to better understand consumer safe food handling behaviors
 - e. Develop existing nutrition programmes to include food safety.
 - f. National science educators to show who is educating and the effectiveness.
 - g. Food safety culture roundtable from policy level to the environment and how to develop a food safety culture in the community through peer-group. Learning. Case studies to include food safety training for healthcare professionals.
 - h. Training potential food safety educators – in healthcare settings, community settings. Educating gatekeepers to disseminate food safety information to 'at risk' consumers.
 3. Industry Educators
 - a. Disjointed efforts – is there a way to bring things back together?
 - b. Storytelling session – paired with sanitation and hygiene PDG, to convey novel methods of delivering food safety education and training.
 - c. Gotcha to good job, changing the mentality of management from punishment to incentives for compliance. Record incident free days.
 - d. Measurable metrics to evaluate food safety effectiveness, how to go back and show effectiveness, return on efforts or investment.
 - e. How to drive the focus of food safety – how to make it paramount. How to make it the focus.
 - f. Food handlers at retail and manufacturers – are they trainable, can people be trained, how can trainers be prepared to respond and deliver different training methods – how to delivery Argentina training.
 - g. Consider topics from Partnership for Food Safety Education Conference's program to next year's meeting.
 - h. Educating the food worker/consumer of the future.
 4. Academic Educators
 - a. Symposia based on many ideas discussed by other sub groups.
 - b. Webinars during the year to disseminate information.
 5. Leon Gorris from International PDG is looking for symposium ideas to link with food safety education PDG for next year.
 6. The food safety education PDG had also been approached by the Food Chemical Hazards and Food Allergy PDG about collaboration on a seminar including training aspects of food allergy.
 7. Carol Invited food safety education PDG members to volunteer to organize and plan activities for next year. As chair of the food safety education PDG, Carol thanked everyone for attending and particularly welcomed student PDG members to get involved with the activities of the PDG.
 8. **Symposia, Roundtable and Workshop ideas:**
 - a. Using behavioral change theories to better understand consumer safe food-handling behaviors (and to design effective interventions).
 - b. How to develop a food safety culture in the community through peer-group learning.
 - c. Training potential food safety educators – in healthcare settings, community settings. Educating gatekeepers to disseminate food safety information to 'at risk' consumers.
 - d. Measurable metrics to evaluate food safety education and training effectiveness, how to go back and show effectiveness, return on efforts or investment.
 - e. Food Safety education in schools – training the next generation of consumers and industry staff.
- In collaboration with other PDGs:
- f. Best practices to food allergy management from the retail/foodservice perspective.
 - g. Food safety education across different stakeholders (partnership with international PDG). Key learnings from programs in use, e.g., WHO 5 keys to food safety, Food safety MOOCs, GFSI global markets program.

Recommendations to the Executive Board:

1. The Food Safety Education PDG recommends that the Board approve Francie Buck, elected as Vice Chair to begin serving at the IAFFP 2017 PDG meeting.
2. Accessibility to information regarding symposium success/failure.
3. Provision of a key point sheet of items from the Board to PDG Chair would be helpful where Board Liaison is unable to make the start of the meeting.
4. Recommendation for Roundtable and Symposium set up that water is provided in the room for all speakers and panel members. This was not available this year in Roundtable organized by the PDG.

Next Meeting Date: July 9, 2017, Tampa, Florida.

Meeting Adjourned: 4:16 p.m.

Chairperson: Carol Wallace.

Fruit and Vegetable Safety and Quality PDG

Attendees: Hamada Aboubakr, Anna Aceituno, Achyut Adhikari, Maria Albarracin, Ted Andrew, Bassam Annous, Elba Arias Rios, Samir Assar, Christopher Baker, Pierre-Olivier Beal, Alexandra Belias, Sylvia Bergman, Larry Beuchat, Sohini Bhatia, Elizabeth Bihn, Rachel Binet, Philip Blagoyevich, Eva Borjas Orellana, Patricia Borrusso, Thomas Burke, Kellie Burris, Shiyu Cai, Loan Cao, Luis Cervantes, Patrice Chablain, Jeffrey Chandler, Yuhuan Chen, Zhao Chen, Ruplal Choudhary, Antonio Cid, David Cook, Vanessa Cranford, Carl Custer, Atin Datta, Gordon Davidson, Pascal Delaquis, Kaiping Deng, Govindaraj Dev Kumar, Brian Dimenna,

Yiran Ding, Katja Dohrendorf, Diane Ducharme, Jill Dunlop, Martin Duplessis, Ruth Eden, Blanca Escudero-Abarca, Michele Evans, Xuetong Fan, Ying Fan, Peyman Fatemi, Yaohua Feng, Tong-Jen Fu, Francisco Gallardo, April Garza, Catherine Gensler, Gary Gensler, Jonathan Glynn, Gopal Gopinath, Christie Gray, Sanjay Gummalla, Jack Guzewish, Paul Hall, Ines Hanrahan, Margaret Hardin, Fawzy Hashem, Arie Havelaar, Alice Hayford, Yingshu He, Susan Hill, Sunee Himathongkham, Amber Hoskins, Kirsten Howe, Diana Huang, William Huntley, Sanja Ilic, Khurram Irshad, Keith Ito, Hyein Jang, Lee-Ann Jaykus, Katie Jenkins, Tim Jenkins, Karen Jinneman, Thomas Johnson, Lynette Johnston, Jiin Jung, Sophia Kathariou, Connie Kirby, Kali Kniel, Larry Kohl, Shigenobu Koseki, Saurabh Kumar, Luke LaBorde, Keith Lampel, Sharan Lanini, Dung Le, Eduardo Lecea, Min Li, Quanhong Li, Ye Li, Keyla Lopez, Teressa Lopez, Gabriela Lopez Velasco, Dumitru Macarasin, Wendy Maduff, Humberto Maldonado, Martha Maradiaga, Karl Matthews, Sherri McGarry, David Melka, Indaue Mello, Minto Michael, Pat Millner, Nathan Mirdamadi, Valerie Morrill, Latha Murugesan, Michael Naeger, Nadia Narine, Claudia Narvaez, Joshua Nazareth, Sergio Nieto, Xiangwu Nou, James O'Donnell, Modesto Olanya, Ynes Ortega, Suyapa Padilla Antunez, Donna Pahl, Katheryn Parraga, Jitu Patel, Chuck Pettigrew, Rachel Pfuntner, Suresh Pillai, Juan Ponce de Leon, John Porter, Erin Post, Molly Powell, Jessica Prince-Guerra, Mingyu Qiao, Sarita Raengpradub, Tian Ren, Cerise Robinson, Gina Ryan, Paula Safko, Nitya Sarjapuram, Marcel Schmidt, Bill Schwartz, Manan Sharma, Angela Shaw, Shima Shayanfar, Arlette Shazer, Valentin Sierra, Ellen Simmons, Otto Simmons, Michelle Smith, Insook Son, Diana Stewart, Don Stoeckel, Joseph Stout, Laura Strawn, Jeyamkondan Subbiah, Ke Sui, Ajita Sundarram, Trevor Suslow, Aparna Tatavarthy, Ed Thompson, Michael Timmer, Phillip Tocco, Angela Treadaway, Laura Truitt, Angela Valadez, Jean Valbrun, Deklin Veenhuizen, Mike Villaneva, Mariana Villarreal-Silva, Qihong Wang, Brandon Wanless, Kevin Webster, Jean Weese, Marielle Weintraub, Christina Wilson, Michael Wood, Kristin Woods, Jay Worley, Randy Worobo, Dorothy Wrigley, Shuang Wu, Vivian Wu, Wenqing Xu, Ying Xu, Zhinong Yan, Mustafa Yesil, Victor Zesiger, Yue Zheng, and Claire Zoellner. **Number of Attendees:** 193.

Meeting Called to Order: 1:00 p.m., Sunday, July 31, 2016.

Minutes Recording Secretary: Sherri McGarry.

Old Business: Minutes from 2015 meeting were adopted without changes.

New Business: Outgoing Chair Kali Kniel thanked the PDG for their efforts over the last two years and shared her enthusiasm for the work of the PDG. She welcomed Sherri McGarry as incoming Chair and announced the election of Humberto Maldonado from Driscolls as new Vice Chair.

Historically, the FVSQ PDG provides a series of updates to the members, which are outlined below.

Regulatory Update: The regulatory update was provided by Samir Assar (FDA CFSAN). The Produce Safety Rule was finalized and published. FDA continues to listen to stakeholders and consider new information as it comes in. FDA's focus has moved to an implementation strategy with emphasis on providing education, training and technical guidance to industry and working with NASDA on states' role. Draft guidance for sprouts is anticipated before the first compliance date

in January 2017. Broader draft guidance for the rule being worked on and trying to accelerate issuing draft guidance for water aspects soon. FDA is working with NASDA for future inspectional strategy and in many other areas. If the states have the resources they will handle the routine inspections and any remaining would be covered by FDA. NASDA is planning on on-farm voluntary readiness reviews and piloting in 2017. The PSA curriculum has been finalized and will begin in September 2016. FDA has provided funds for regional and national coordination centers with USDA to assess regional needs and provide specialized training for small growers and processors. Awards for grants to institutions to provide training for certain stakeholders, such as tribal communities and for sustainable farming, will be announced shortly. Produce safety network continues to build and there are many career opportunities with FDA. FDA is committed to staying connected to produce community and taking a measured approach to implementation.

Produce Safety Alliance Updates: Betsy Bihn provided the update on the PSA (<http://producesafetyalliance.cornell.edu/>). PSA training will initiate with a focus on Train-the-Trainer sessions (two-day course) in September 2016; first priority given to those participants registered for the previously cancelled sessions, second priority to the four regional centers; and third priority to the Northern Region and those crucial to help build more collaborations. PSA has hired several staff to support effort across the nation.

Outbreak Update: The outbreak update was given by Cerise Robinson (FDA CORE). It included a summary of pathogen and foods involved in multistate outbreaks that FDA was involved. Discussions included information on source of the food, whether domestic or imported. She highlighted a few outbreaks and high level lessons from the investigations and shared continued trends in seeing sprout outbreaks, consecutive Cyclospora outbreaks, and a few novel foods involved in other outbreaks. Cerise provided CORE's website: www.fda.gov/Food/recallsoutbreaksemergencies/outbreaks.

Other Topics:

Suresh Pillai, USDA APHIS, provided an update and presentation to the PDG on use of irradiation on imported produce. Slide set described the technology, benefits, and why this is an area of need and potential growth.

PDG members expressed continued interest in webinars. Sherri McGarry shared that there's a webinar on sprouted seed in development.

PDG members brainstormed topics for symposia/roundtable and tried a new approach to help connect PDG members during the PDG meeting by breaking out into groups by topic areas. Sherri McGarry requested feedback on this approach after our meeting; plan is to have conference calls following IAFP meeting and before deadline to submit symposia/roundtable ideas in October.

Recommendations to the Executive Board:

1. Recommend to the Board that the Humberto Maldonado from Driscolls be approved as Vice Chair of the PDG.
2. Recommendation to the Board to find a way to better determine the size and number of chairs needed for the PDG meeting; many members were standing or sitting on the floor. Additionally, it's recommended that

further consideration be made for the design and set-up of the room to better facilitate discussion and PDG member interactions and/or PDG be allowed to modify the room set-up and put it back before the next meeting in the room (note: this may not be practical).

3. Recommend to the Board that there be continued support and encouragement to hold Webinars.

Next Meeting Date: July 9, 2017, Tampa, Florida.

Meeting Adjourned: 3:00 p.m.

Chairperson: Sherri McGarry.

HACCP Utilization and Food Safety Systems PDG

Attendees: Timothy Adams, Sultan Al Tahir, Jean Anderson, Mueen Aslam, Fatemeh Ataei, Todd Badgley, Daniel Bendjouia, Wafa Birbari, Sharon Birkett, Neil Bogart, Susan Bornstein - Forst, Richard Brouillette, Martin Bucknavage, Jonathan Campbell, Julie Carver, Chia-Yang Chen, Rocelle Clavero, Denise Cobaiashi, Frederick Cook, Jessica Cooper, Sally Crowley, David Crownover, Ashley Cunningham, Kelly Dawson, Antoinette De Senna, Caroline DeWaal, Nancy Dobmeier, Darrell Donahue, Randolph Duverna, Philip Elliott, Bertrand Emond, Faye Feldstein, Elise Forward, Casey Frupp, Chao Gong, Stephen Grove, Xiaowen Guo, Susan Hammons, Dong Han, Melanie Harris, Jane Hayford, Brynn Husk, Atef Idriss, Michael Ionni, Keith Ito, Patricia Jaar, Tim Jackson, Lone Jespersen, Karen Jinneman, Lynette Johnston, Tineke Jones, Charles Kalish, Jenifer Kane, Sally Klinect, Barbara Kowalczyk, Carlo Lacap, Jonathan Lam, Lorilyn Ledenbach, Judy Lee, Panagiotis Lekkias, Wan Mei Leong, Jiaqi Li, Jiang Liang, Marie Limoges, Tatiana Lorca, Maria Lovelace-Johnson, Luyao Ma, Manu Manohar, John Marcy, Molly Mills, Bernard Monahan, Sara Mortimore, Sudarsan Muralidharan, Folarin Oguntoyinbo, Daniel Okenu, Suyapa Padilla Antunez, John Porter, Janet Raddatz, Tara Riley, Tanya Roberts, Oscar Rodriguez-Gonzalez, Bradley Russell, Marcel Schmidt, Daniel Schmitz, Bill Schwartz, Judy Sebastian, Dennis Seman, Ellen Simmons, Vanessa Snyder, Marianna Solorio, Brenda Stahl, Clint Stevenson, Zhanqiang Su, Deepika Suresh, Joanne Taylor, Jean Valbrun, Purnendu Vasavada, Leonel Vera, Jeyachandran Visvalingam, Carol Wallace, Ben Warren, Jennifer Weber, Frances Widjaja, Pamela Wilger, Gracia Windiasti, Lingzi Xiaoli, Xianqin Yang, Edith Zambrana, and Jiaojie Zheng. **Number of Attendees:** 109.

Meeting Called to Order: 1:00 p.m., Sunday, July 31, 2016.

Minutes Recording Secretary: Fatemeh Ataei.

Old Business: No open items.

New Business: Our Board Liaison, Tim Jackson, welcomed everyone for being part of the PDG and encouraged all members to consider getting actively involved in the PDGs' activities over the next 12 months and celebrated the work already completed by the PDG. Tim emphasized the importance of collaborating with other PDGs on symposia ideas.

The following announcements were provided to the PDG audience:

- Deadline for IAFP 2017 symposia and roundtable is October 4, 2016.
- Update on FSPCA Training.

- Sara Mortimore provided a brief update on the CODEX initiative to review and consider changes to the General Principles for Food Hygiene. She stated Codex is becoming more similar to FSMA PC, and PRPs are considered as PCs. The new Codex HACCP document considers allergens as chemical hazard.

Lisa Moody had to step down as Vice Chair of the PDG due to her role within Maple Leaf Foods changing from a food safety focus. The PDG held nominations and elected a new Vice Chair. Nominated were Fatemeh Ataei, Brenda Stahl and Lori Ledenbach. The PDG voted and elected Lori Ledenbach as the new Vice Chair for the PDG.

The PDG was led through a benchmarking exercise focused on how to implement EMA and Radiological Hazards into a food safety plan. Groups discussed the topic for 25 minutes and one person from each group reported back to the main group.

The PDG discussed ideas for potential IAFP 2017 symposia and potential PDG activities for the next 12 months.

- Potential symposia ideas for next year's Annual Meeting.
 - What's the role of HACCP through the R&D and product development?
 - How do you address unintended use of the product? Current practices/best practices.
 - Extension on the validity of the controls in supply chain: EMA, radiological, how you use it to rank your suppliers. Co-sponsor with food defense group.
 - Getting back to basic training/pre-con workshop.
 - NCIMS and its progress regarding alignment with FSMA modification.
 - Roundtable discussion of risks/hazards and how they are controlled, done by the industry.
 - What's the supplier control/HA for marijuana?
 - Is what we eat good for us?
 - How to build FSP and how to manage all the documentations?
 - Industries which are not ready for FSMA changes.
- Potential webinars/other info venues:
 - Create a HACCP PDG LinkedIn page.
 - Database ideas, information.
 - Sponsors to create four-minute videos around these topics.

The PDG will host a conference call in the next 4–5 weeks to continue discussions on potential symposia topics and identify organizers.

Recommendations to the Executive Board:

1. Approve Lorilyn Ledenbach as Vice Chair for 2016–2017 (shortened term due to the step down of Lisa Moody as Vice Chair).

Next Meeting Date: July 9, 2016, Tampa, Florida. Next contact will either be a webinar or conference call.

Meeting Adjourned: 2:58 p.m.

Chairperson: Ben Warren.

International Food Protection Issues PDG

Attendees: Douglas Abbott, Walid Alali, Pablo Alvarez, Bassam Annous, Patrice Arbault, David Baker, DeAnn Benesh, Leslie Bourquin, Lay Ching Chai, Denise Cobaiashi, Roger Cook, Sally Crowley, Ashley Cunningham, Alexandre Da Silva, Kelly Dawson, Heidi Den Besten, Maria Teresa Destro, Nancy Dobmeier, Tom England, Jeffrey Farber, Laura Gage, Leon Gorris, Judy Greig, Fabiana Guglielmono, Jack Guzewish, Michele Harris, Fawzy Hashem, Arie Havelaar, John Heller, Sunee Himathongkham, Tim Jackson, John Jarosh, Jenifer Kane, Karim-Franck Khinouche, Bobby Krishna, Keith Lampel, Lisa Lucore, Janeth Luna, Deon Mahoney, Alejandro Mazzotta, David Melka, Pat Millner, Paul Morin, Latha Murugesan, Chad Nelson, Modesto Olanya, Palmer Orlandi, Salina Parveen, Suresh Pillai, Jessica Prince-Guerra, Ravinder Reddy, Forest Reichel, Jean Schoeni, Muhammad Shahbaz, Shelendra Singh, Thierry Sofia, Katherine Swanson, Ed Thompson, Ewen Todd, Lingzi Xiaoli, Guodong Zhang, and Marcel Zwietering. **Number of Attendees:** 61.

Meeting Called to Order: 2:32 p.m., Saturday, July 30, 2016.

Minutes Recording Secretary: Leon Gorris.

Bobby Krishna opened the meeting welcoming the PDG members and new attendees. He reminded the participants of the purpose of the meeting and presented the proposed agenda that was accepted with no additions.

On behalf of the Board, Tim Jackson welcomed the attendees. He noted the record high attendance to this year's IAFP Annual Meeting and the growing IAFP membership. Tim also reminded attendees of the four international IAFP meetings coming up in October (Penang, Malaysia), November (Shanghai, China; Cancun, Mexico) and March (Brussels, Belgium).

Old Business: The minutes of the 2015 PDG Meeting were adopted as written (Bassam Annous proposed; seconded by Roger Cook).

New Business:

Success rate of last year's symposia submissions.

The Chair noted that out of the eight symposium sessions suggested by the group as well as supported by the group, six were submitted and of these, three could be found on the final program:

- S12: Harmonizing Hygiene and Sanitation Specifications for Improved Public health and Better International Trade.
- RT2: The Global Food Safety Kaleidoscope.
- Review of New Risk Factor Studies and Applications to Restaurants Inspections in the U.S. and Europe.

Arie Havelaar noted that a fourth session could be counted, as the PDG also supported it:

- Session S75: The Global Burden of Foodborne Disease.

Updates from International Organizations. Sarah Cahill (FAO), also on behalf of Peter ben Embarak (WHO), asked the Chair to inform the meeting as follows:

- Apologies for FAO not making it to the PDG meeting. However, please note that Dr. Renata Clarke, who leads the FAO food safety work, will be giving the John Silliker Lecture on Wednesday at 4:00

p.m. (Improving Food Safety Globally: Developing and Applying Science for the Common Good) and that Mary Kenny, Food Safety and Quality Officer, contributes to S67 (Integrating Food Safety in Food Security). Here are some highlights of the work of FAO and international partners.

- **Whole genome sequencing (WGS).** FAO has been active on WGS in the last year, in particular to address the challenges faced by developing countries. FAO in collaboration with WHO published a Technical Paper (Applications of Whole Genome Sequencing in food safety management) and convened a meeting in Rome (May 2016) in conjunction with the 9th Global Microbial Identifier (GMI). The report of this meeting will also be available online shortly.
- **Outcomes of 39th session of the Codex Alimentarius Commission (CAC).** CAC report. Adoption of guidance on the control of *Salmonella* in beef and pork, guidance for the control of parasites in foods and additional texts relating to the establishment of microbiological criteria in foods. The scientific advice report will be published next week by FAO/WHO. The CAC established a new task force on Antimicrobial Resistance (AMR) to revise its existing standards and consider the development of new ones relevant to the management of AMR in the food chain. This work will need to be supported by scientific advice and FAO and WHO, will be issuing calls for data and experts to support this work early next year. New work is underway to look at STEC in foods and provide Codex with the scientific basis it needs to undertake risk management work on this topic. The starting point here is the Global Burden of Foodborne Disease work that was led by WHO (report released last December).
- FAO continues to implement its work on food safety capacity development and Emergency Prevention and Response, with a strong emphasis on the interaction between these three areas. Some recent publications which may be of interest include:
 - The publication of a manual on how to undertake risk-based imported food control
 - The publication of a handbook on risk communication
 - An overview of early warning and rapid alert systems relevant to food safety
 - A handbook on food safety emergency response
- Training and workshops continue around the world on risk analysis, microbiological criteria, emergency preparedness, total diet studies and exposure assessment, to name but a few, as part of the worldwide efforts of FAO and WHO to raise the level of food safety globally.

International Commission on Microbiological Specifications for Foods (ICMSF). Leon Gorris updated on ICMSF activities, noting that ICMSF is finalizing the revision of ICMSF book 7 by end 2016. This extensive revision represents the latest thinking on risk management metrics and useful testing in managing food safety. It provides in-depth details of the statistics underpinning sampling plans, microbiological criteria and process control and includes six hazard-commodity combination examples to bring the application of the above to life.

Global Food Safety Initiative (GFSI). Leslie Bourquin provided a brief update on the GFSI Global markets program.

Regional Updates:

- Leon Gorris gave an update on Europe, focusing on food safety resources (e.g., risk assessments, opinions, rapid alerts and data on burden of chemicals and zoonosis) available from the various competent authorities (European commission, European Food Safety Agency, European Center for Disease Control and Prevention).
- Roger Cook (New Zealand) noted that a new law had been implemented on March 1 (transitional period until November (1) on requirements for manufacture and sale of raw drinking milk. The new law is a good balance of risk assessment and risk management but has still received unfavorable responses from some sellers, especially around attribution of illness to the consumption of raw drinking milk. The law, in particular its effect on foodborne illness, will be reviewed in 2018.
- Deon Mahoney (Australia) noted that raw cow milk is not allowed, despite New Zealand and Australia generally sharing approaches to risk management through FSANZ. He noted that the revised Food Standards Code came into effect on March 1, 2016, including requirements on microbiological criteria, shared between Australia and New Zealand. The microbiological criteria for foods in the Code are being reviewed with a focus on retaining food safety criteria in the Code, and moving process hygiene criteria into a separate Compendium. Changes in requirements for country of origin labelling have come into effect, resulting in ongoing discussion associated with appropriate labelling, given how foods are often produced using ingredients and (for instance) starter cultures originating from across the globe. Dairy Food Safety Victoria has recently updated its website (www.dairysafe.vic.gov.au) providing enhanced information to manufacturers, producers, and consumers.
- Bobby Krishna provided an update on the recent developments and initiatives in the Middle Eastern region. He also gave a brief introduction to the new food inspection system in Dubai.

Suggestions for Symposia at IAFP 2017:

Ideas for the Annual Meeting of IAFP in 2017 need to be submitted by October 4, 2016. The following topics were suggested to be developed:

- Session of online Food Safety Education tools available to grow food safety professionals at the global level (suggested by Leon Gorris; support to be sought from Education PDG).
- Session on making key food safety information available to consumers/workers effectively independent of language (suggested by Lisa Lucore. Leon to raise with Education PDG).
 - Session on international connection to FSMA, including progress in capability building and resourcing foreign suppliers (suggested by Pablo Alvarez; David Baker supporting).
 - Session to share awareness about and learnings of using online tools for auditing food safety operations, which could include

auditing preventative control measures (suggested by Bobby Krishna; supported by Karim-Franck Khinouche).

- Roundtable to international STEC regulation development, possibly with focus on beef industry (suggested by Roger Cook; supported by Patrice Arbault).
- Session on international *Listeria* regulations and recent developments in risk assessment, risk management and risk communication (suggested by Tim Jackson; supported by Leon Gorris).
- Session on getting ahead of the next low-level allergen contamination of agricultural food ingredients by getting better at understanding farmer practices (suggested by Lisa Lucore).

Recommendations to the Executive Board:

1. PDG members commented they may not be able to attend anymore because of difficulty budgeting extra time and financial resources as it is held on Saturday. The PDG requests the Board to consider providing audiovisual access to the meeting for members to attend and contribute from a distance.

Meeting Adjourned: 4:15 p.m.

Next Meeting Date: July 8, 2017, Tampa, Florida.

Chairperson: Bobby Krishna.

Low Water Activity Foods PDG

Attendees: Shirin Abd, Gary Acuff, Nora Adams, Timothy Adams, Pablo Alvarez, Nathan Anderson, Elba Arias Rios, S. Balamurugan, Pierre-Olivier Beal, Junia Beaubrun, Daniel Belina, Larry Beuchat, Tom Black, Nicolas Braun, Richard Brouillette, Sarah Buchholz, Stephen Burbick, Oscar Caballero, Joanna Carroll, Erdogan Ceylan, Suchart Chaven, Stella Chen, Zhao Chen, Anne Chi, Rocelle Clavero, Frederick Cook, Sally Crowley, Ashley Cunningham, Carl Custer, Gordon Davidson, Kelly Dawson, Thais De Melo Ramos, Daniel Demarco, Muthu Dharmasena, Brian Dimenna, Nancy Dobmeier, Martin Duplessis, Michele Evans, Jeffrey Farber, Peyman Fatemi, Carrie Ferstl, Kyle Ganz, Francisco Garces-Vega, Gopal Gopinath, Monica Guzman, Margaret Hardin, Melinda Hayman, Yingshu He, Ian Hildebrandt, Amber Hoskins, Virginia Hughey, Atef Idriss, Keith Ito, Rhoma Johnson, Don Jones, Sophia Kathariou, Susanne Keller, Stephen Kenney, Ramin Khaksar, Karim-Franck Khinouche, Kalmia Kniel, Yasu Komoto, Jeffrey Kornacki, Shigenobu Koseki, Jeffrey Kuehm, Saurabh Kumar, John Larkin, Soon Kiat Lau, Quanhong Li, Ye Li, Jiang Liang, Pichamon Limcharoenchat, Shuxiang Liu, Antonio Lourenco, Lisa Lucia, Lisa Lucore, Martha Maradiaga, Bradley Marks, Mayra Marquez, Molly Mills, Nathan Mirdamadi, Mahta Moussavi, Latha Murugesan, Nadia Narine, Quynh-Anh Nguyen, Taylor Oberg, Belem Ontiberos, Ynes Ortega, Yanying Pan, Alma Perez-Mendez, Shannon Pickens, Monica Ponder, Laurie Post, Florence Postollec, Gale Prince, David Rasmussen, Frank Ridgley, Julianny Rivera Calo, Luis Sabilln, Sofia Santillana-Farakos, Kristin Schill, Jay Schuman, Brooke Schwartz, Manoj Shah, Arlette Shazer, Weilin Shelver, Tracey Sinclair, Philip Steinbrunner, Jeyamkondan Subbiah, Quincy Suehr, Ke Sui, Ben Tall, Carmen Tartera, Aparna Tatavarthy, Abdullatif Tay, Koi Techathuvan, Zeynal Topalcengiz,

Lubomir Valik, Malcond Valladares, Mariana Villarreal-Silva, Morgan Wallace, Hongye Wang, Xinyao Wei, Pamela Wilger, Edith Wilkin, Tamara Wood, Jian Wu, Jin Xu, and Yue Zheng.
Number of Attendees: 129.

Meeting Called to Order: 2:08 p.m., July 31, 2016.

Minutes Recording Secretary: Nadia Narine.

Old Business:

- Student Liaisons – Ian Hildebrandt, Manoj Shah and Soon Kiat Lau
- Laurie Post was introduced as incoming Vice Chair elected by Survey monkey voting in the last 30 days. Laurie replaces Edith Wilkin, who has assumed Chair position. We thank Elizabeth Grasso for her service to the PDG these last two years.
- 2015 meeting notes were accepted by procedure.
- Reviewed 2016 submitted symposia. Those submissions were not accepted. It was agreed at the Chair/Vice Chair meeting on July 30 that Program Committee feedback will be disseminated at some time. This would be timely as we begin to work on 2017 proposals.

New Business:

- Kali Kniel welcomed members on behalf of the Board. There are 3,400 attendees as of July 31 and more are expected to register Monday. A new rule for PDGs submitting programming for 2017 Annual Meeting need to ensure all presentations are 30 minutes in length.
- Members were reminded to update their information and preferences at the IAFP member site.
- Melinda Hayman spoke on the recent *Listeria monocytogenes* contamination in low-moisture foods, sunflower seeds and some of the questions surrounding industry challenges and regulatory posture. Key points:
 - Infectious dose – still not known.
 - Do you need growth to cause?
 - What is the significance of sporadic levels of *Lm* in frozen and dry foods?
 - *Lm* regulatory and policy developments, particularly around positive environmental findings on food contact surfaces. Information is expected from the Alliance to prevent listeriosis and FDA's food advisory.
 - GMA is about to begin research of *Lm* in low moisture foods, looking for ideas and also whole-genome sequencing.
- Sofia Santillana-Farakos presented a review of FAO's 2014 work on pathogens in low moisture food seeds, nuts, flour, herbs and tea). Key points:
 - Top three pathogens being *B. cereus* (highest prevalence), *Salmonella* and *E. coli* (lowest prevalence).
 - Route of contamination.
 - More data needed on concentration levels.
 - High relative variability in prevalence.

This presentation generated a lot questions and discussions around the issue and the challenge in making a determination on prevalence prior to designing inactivation studies.

Recommendations to the Executive Board:

- Recommend approval of Laurie Post as Vice Chair.

Next Meeting Date: July 9, 2017

Meeting Adjourned: 3:55 p.m.

Chairperson: Edith Wilkin.

Meat and Poultry Safety and Quality PDG

Attendees: Gary Acuff, Jennifer Acuff, Ruby Apilado, Patrice Arbault, Aaron Asmus, Brian Astridge, David Baker, Takiyah Ball, Pierre-Olivier Beal, Daniel Bendjouia, Sylvia Bergman, Austin Bernard, Mark Berrang, Roy Biggs, Rachel Binet, Sharon Birkett, Betsy Booren, Alex Brandt, Nicolas Braun, Alexander Bruner, Dennis Burson, Jonathan Campbell, Facundo Cancela, Evan Chaney, Denise Cobiaishi, Kimberly Cook, Roger Cook, Douglas Cosby, Sally Crowley, Carl Custer, Thomas Danisavich, Bryan Dieckelman, Jeff Edelen, Stephen Erickson, Gerson Espindola, Emilio Esteban, Jeffrey Farber, Yaohua Feng, Casey Fripp, Laura Gage, Gary Gamble, April Garza, Kerri Gehring, Gary Gensler, Jose Gil, Ann Gladwell, Kathy Glass, Susan Gregro, Nancy Gushing, Miguel Gutierrez, Myriam Gutierrez, Dong Han, Margaret Hardin, Upasana Hariram, Evan Henke, Craig Henry, Melissa Herbert, Kirsten Howe, Aaron Huckabee, John Jarosh, Ian Jenson, John Johnston, Tineke Jones, Charles Kalish, Sophia Kathariou, Jason Khoo, Amanda King, Kalmia Kniel, Barbara Kowalczyk, Shira Kramer, Heath Lafevers, Jonathan Lam, Brittany Laster, Soon Kiat Lau, Dung Le, Quanhong Li, Jiang Liang, Pushpinder Litt, Keyla Lopez, John Luchansky, John Marcy, Thomas McCaskey, Barbara Masters, Ashley McCoy, Meghan McDonough, Tammy McFate, Wendy McMahon, Emeffa Monu, Amit Morey, Kellee Mullen, Claudia Narvaez, Minh Nguyen, Yemi Ogunrinola, Yanying Pan, Salina Parveen, Aaron Patch, Ruth Petran, Randall Phebus, Jean-Louis Pittet, Lori Pivarnik, John Porter, Anna Porto-Fett, Mingyu Qiao, Tian Ren, Danielle Robocon, Marcos Sanchez-Plata, Katie Satchwell, Marc Scantlin, Daniel Schmitz, Brooke Schwartz, Chris Seeber, Muhammad Shahbaz, Weilin Shelver, Angela Siemens, Manpreet Singh, Avery Smith, Robbie Smith, Thierry Sofia, Chaline Srinimuan, Nicholas Steward, Mehgan Styke, Zhanqiang Su, Haixia Sui, Jolyda Swaim, Rodrigo Tart, Todd Taylor, Ed Thompson, Leslie Thompson, Jean-Philippe Tourniaire, Peter Trabold, Jean Valbrun, Danah Vetter, Mariana Villarreal-Silva, Jeyachandran Visvalingam, Morgan Wallace, Li Wan, Xinyao Wei, Frances Widjaja, D. S. Wood, Jay Worley, Zhinong Yan, Xianqin Yang, Alex Zeman, and Jiaojie Zheng.

Number of Attendees: 144.

Meeting Called to Order at: 9:05 a.m., July 31, 2016.

Minutes Recording Secretary: Betsy Booren.

Old Business:

- Review of antitrust guidelines by Jolyda Swaim

New Business:

- Dr. Emilio Esteban, FSIS-OPHS, provided an update on Food Safety and Inspection Service (FSIS) activities. Dr. Esteban also answered questions from PDG members on a variety of topics including whole genome sequencing, antibiotic resistance, among others.
- A discussion ensued regarding potential programming topics for the 2017 meetings. Specific topics include:
 1. Roundtable: Pork Modernization Roundtable (Alex Brunner, Brooke Swartz).
 - a. Hold a roundtable similar to past sessions re: poultry modernization.
 - b. Dan Engeljohn as potential speaker.
 2. Roundtable: Genome Sequencing – Where the Rubber Hits the Road (Melissa Herbert, Alex Brandt, Betsy Booren.)
 - a. Session should be a practical and applied discussions.

- b. Panelists should include perspectives from industry, state public health departments, CDC, FDA, FSIS and NCBI.
- c. Should include challenges with dual jurisdiction facilities; pathogens vs. non-pathogens.
- 3. Webinar: Whole Genome Sequencing for Dummies.
 - a. Potential Speakers: Haley Oliver.
- 4. Symposium: International Harmonization of STEC Regulations – What are the Implications for the Global Market (Angie Siemens, Patrice Fach, Roger Cook, Ian Jensen, Evan Cheney, Jeff Farber).
 - a. Should include discussion potential trade barriers, summary of global regulations, and implications for importers/exporters?
 - b. Partner with International PDG.
- 5. Symposium: Research Gaps for *Salmonella* in Poultry – We Picked the Low-hanging Fruit and Now Need a Ladder for the Next Harvest (Amit Morey, John Marcy).
 - a. Session should include discussion of new vectors of contamination, especially as it is related to the animal physiology, higher risk production practices, Codex activities, etc.
 - b. Potential speakers: University of Guelph research team, Colorado State, NCC update on industry data.
- 6. Symposium: Producing a Clean Label Meat and Poultry Product – Food Safety Considerations (Alex Bruner, Jonathan Campbell, Kathy Glass, Amanda King, Sylvia Bergman, Dennis Burson).
 - a. Session should include a summary of latest food safety, ingredient and process research.
- 7. Roundtable: Modernization of Meat and Poultry – What Does That Mean in the Future? (Betsy Booren).
 - a. Discussion on modernization of regulatory methods, terms, etc. Could irradiation no longer regulated as an ingredient? What is cured product?
 - b. What research is needed for a global industry for modernization alignment?
- 8. Symposium: Don't Stop at Go – What is Needed Next for *Campylobacter* Control (John Marcy, Roy Biggs, Emilio Esteban).
 - a. Session would include discussing what is needed next for poultry, enumeration, etc.
 - b. Session could include other emerging meat and poultry issues as well.
- 9. Symposium: Emerging Protein Concerns – What Don't We Know That We May Need to Know? (Alex Bruner, Johnathan Campbell).
 - a. Are there novel protein sources (insects, lab grown protein, etc.) emerging food safety issues, should include pathogen, chemical and residue concerns?
 - b. What are the Artisanal Meat food safety needs? Do we need guidance or education for DIY or chef curing, dry aging, etc.
- Open discussed ensued on topics of concern for PDG members.

Recommendations to the Executive Board: None.

Next Meeting Date: July 9, 2017, Tampa, Florida.

Meeting Adjourned: 11:30 a.m.

Chairperson: Barbara Masters.

Microbial Modelling and Risk Analysis PDG

Attendees: Shirin Abd, Maria Albarracin, Ruby Apilado, Elba Arias Rios, Todd Badgley, David Baker, Michael Batz, Thomas Bell, Elizabeth Beshearse, Wafa Birbari, Richard Brouillette, Robert Buchanan, Rick Carpenter, Joanna Carroll, Yuhan Chen, Zhao Chen, Anne Chi, Sung Min Cho, Soo Hyun Chung, Pam Coleman, Jessica Cooper, Ashley Cunningham, Atin Datta, Kelly Dawson, Heidy Den Besten, Nancy Dobmeier, Darrell Donahue, Denise DuFresne, Steven Duret, Sanjit Fernandes, Carrie Ferstl, Matthias Filter, Florence Postollec, Kyle Ganz, Francisco Garces-Vega, Solomon Gebru, Foivos Genigiorgis, Leon Gorris, Dong Han, Emma Hartnett, Arie Havelaar, Erin Headley, Ian Hildebrandt, Lihan Huang, Andy Hwang, Keith Ito, Jin Woong Jeong, Wen-Tsai Ji, Don Jones, Bianca Juarez, Jae Woo Kang, Susanne Keller, Nicolas Korsak, Shigenobu Koseki, Bala Kottapalli, Barbara Kowalczyk, Kunihiro Kubota, Elisabetta Lambertini, Dung Le, Kyu Ri Lee, Panagiotis Lekkas, Fritz Lembke, Min Li, Scott Li, Jiang Liang, Pichamon Limcharoenchat, Pushpinder Litt, Lisa Lucore, David Luedeke, Deon Mahoney, Bradley Marks, Conor McCrauran, Sherri McGarry, Joseph Meyer, Paul Morin, Maarten Nauta, Desriac Noemie, Cian O'Mahony, Mickey Parish, Suresh Pillai, John Porter, Florence Postollec, Abani Pradhan, Tian Ren, Tanya Roberts, Oscar Rodriguez-Gonzalez, Muhammad Khalid Saeed, Paula Safko, Sofia Santillana-Farakos, Don Schaffner, Chris Seeber, Dennis Seman, Arlette Shazer, Shelendra Singh, Panagiotis Skandamis, Philip Steinbrunner, Carolyn Steiner, Diana Stewart, Quincy Suehr, Haixia Sui, Irshad Sulaiman, Abdullatif Tay, Antonio Valero, Jane Van Doren, Mariana Villarreal-Silva, Xinyao Wei, Richard Whiting, Edith Wilkin, May Yeow, Lei Zhang, Jiaojie Zheng, Claire Zoellner, and Marcel Zwietering. **Number of Attendees:** 113.

Meeting Called to Order: 9:00 a.m., Sunday July 31, 2016.

Minutes Recording Secretary: Bala Kottapalli (with help from Yuhuan Chen and Marcel Zwietering).

Chair Marcel Zwietering, taking over from Yuhuan Chen, welcomed attendees, followed by self-introductions for all PDG members and visitors. Marcel reviewed the meeting agenda.

Comments from Executive Board: Mickey Parish indicated that this PDG is very active, both in symposia as well as in webinars. Also the whole IAFP community is doing well. This year, we are averaging around 4,100 IAFP members, 3,300–3,400 are expected at the end of the meeting, with 175 exhibitors. Both the number of participants and exhibitors have increased compared to last year. He also mentioned that future symposium presentations are strictly limited to 30-minute presentations. He requested to continue submit proposals (deadline of October 4th, 2016). Furthermore, he requested to nominate eligible candidates for IAFP awards. This year marks the first time to register participants through scanning of badges. New members to the PDG are automatically enrolled through the scanning of the badges. *[Editor's Note: new members are not automatically enrolled. Members should join a PDG through the IAFP Web site by updating the Professional Info tab in their Member profile.]*

Minutes from the 2015 meeting were tabled for comments or edits. There were no edits. Motion to adopt the minutes by Yuhuan Chen, seconded by Leon Gorris and Thomas Bell. Minutes adopted.

New Business:

- Thank you to past Chair and election of new Vice Chair: Marcel Zwietering and the PDG members thanked past chair Yuhuan Chen for her outstanding leadership and for the many accomplishments of the PDG achieved under her leadership, not only illustrated in the symposia and webinars but also the networking and collaborations among PDG members, and collaborations with other PDGs. To show the impacts from Yuhuan's leadership, Marcel mentioned "Yuhuan is a most friendly person, always smiling and socializing, but at the same time a perfect organizer and networker. It can only get worse; I should not have taken the job!" Marcel also quoted a message from Alejandro Amezcua (Past Chair): "It's been a pleasure to have served in the leadership of the MMRA PDG. As a strong advocate of predictive modelling and risk-based approaches applied to food safety, I feel proud to see how this PDG continues to grow from strength to strength, with excellent outputs, and keeping a global community of members and other interested professionals engaged. This would not have been possible without the commitment of the energetic colleagues who worked with me in the leadership for the past couple of years. Therefore, I want to thank Yuhuan for her outstanding role as PDG Chair in 2015-2016, and I wish Marcel and Bala success for the next year. The PDG is in excellent hands. Thanks."
- Yuhuan thanked everyone for supporting her and also mentioned the following: "Thank you so much, MMRA. It's great to chair the Committee. I want to thank everyone for your support. It was terrific to work with Alejandro Amezcua, immediate Past Chair, and with Marcel in the PDG leadership. I have very much enjoyed working with Alejandro and Marcel, and with all of you. As a forum for MMRA, one thing that stood out is the quality of the symposia, workshops and webinars the Committee helps organizing – more than 10 proposals every year and acceptance rate is very high – 80%. The Committee is amazing. Now that the torch is passed to Marcel and we welcome a new Vice Chair, I think Alejandro put it very well – the Committee is in good hands for much more success in the years ahead. Thank you so much!"
- Bala Kottapalli was introduced as a new Vice Chair to the PDG group. Marcel explained the selection process for new Vice Chair. This included multiple nominations from PDG members and elections through a voting process. Marcel indicated that this type of selection process will be adopted for future selection of Vice Chair(s); hence nominations are welcome. Nominations are welcome from different regions and affiliations (industry, government, academia etc.).

Guest Speaker: Matthias Filter is senior research scientist in the unit "Food Technologies, Supply Chains and Food Defense" at the Federal Institute for Risk Assessment (BfR), Germany.

Matthias coordinated several software development and modeling activities within the BfR. In several national and international research projects, Matthias promoted the idea of standardized information exchange as the basis for harmonization, transparency and knowledge generation.

Matthias presented the following topic, "Update from RA Software/Data Exchange Workgroup – Available Resources and Current Developments." The purpose of this software

was to support risk assessors with mathematical models and model-based software tools. He described a four-step process (Step 1: Model Exchange Formats, Step 2: Rules for Model Annotation, Step 3: Community Contributions and Step 4: Food Safety Knowledge Bases) that is required to generate food safety knowledge bases. He provided an overview about the current progress on the development of software and also harmonization to facilitate exchange of mathematical models. He concluded his presentation by indicating that the vision of "sharing models and modules" is achievable and more joint efforts are required in this area to fulfill the vision.

Following the presentation, there was some discussion on the following points:

- When integrating different models validation of the individual models as well as the integrated model is necessary, how would the software achieve this?
 - QC of models should be done before uploading to the repository. There should be an editorial board reviewing the QC of the uploaded models.
- Is it a server-based software?
 - It is a desktop software.
- How do you address propagation of errors?
 - While this item was not on the priority list of the development of software, one suggestion to address the propagation of errors is to have an idea of uncertainty/variability of the models as well as sufficient documentation across different models which will help risk assessors to make knowledge based food safety decisions.

Update from the ICPMF Committee: Marcel Zwietering (as being the Past Chair of the International Committee on Predictive Microbiology of Food) gave an update. The next conference, ICPMF10, will be in Cordoba, Spain on September 26–29, 2017. Since 2015 ICPMF became a subcommittee of the ICFMH (International Committee on Food Microbiology and Hygiene of the IUMS). Also, good relationships and cooperation with the IAFP are continued.

Symposia/Workshops/Roundtables – Overview 2016

A total of 11 proposals were submitted by the members of PDG which the MMRA PDG sponsored or co-sponsored. Nine out of 11 were accepted. This allows us to continue to submit good quality proposals in the area of MMRA and also continue to collaborate with other PDGs. Especially making good links is very well appreciated, and very much feasible in our group, symbiosis between legal, industry and academia, on the one hand, and on the other hand between mathematics, statistics, informatics, microbiology, and product specific knowledge.

Symposia/Workshops/Roundtables – Ideas for 2017 – Proposals Due October 4, 2016

- A software fair for MMRA tools (Roundtable, ICPMF, Fanny Tenenhaus).
- Modeling pathogens in low-water activity foods (Symposium, Sofia Santillana-Farakos, low a_w PDG).
- Fresh Produce Chain (on farm, processing and retail) Risk Assessment (Symposium/Webinar: possibly working with ILSI Europe/US, Yuhuan Chen, Marcel Zwietering).
- WGS/Metagenomics focusing on how it can be implemented in risk assessments, specifically in epidemiology, exposure assessment, hazard characterization (Symposium/Webinar: ILSI Europe, Marcel Zwietering).
- Risk ranking of food safety hazards under low resource situations (Symposium: Barbara Kowalczyk).

- Risk assessments on soil amendments (Symposium: Barbara Kowalczyk).
- Data uncertainty issues and how to use expert elicitation to fill data gaps (Symposium: Arie Havelaar).
- Modelling kinetics (Webinar: Lihan Huang.)
- Water standards for food safety (Symposium: Elizabetta Lambertini).
- Validation under FSMA and the use of MMRA tools to inform this process, also under unexpected conditions (i.e., power outages, flooding) (Symposium/Roundtable: Erin Headley, Joseph Meyer, Dennis Seaman).
- Risk assessment for microbial/food chemicals/chemical hazards/allergens: Similarities and differences, also consider risk-risk, risk-benefit (Symposium: Cian O'Mahony).
- New insights and risk assessments related to *Listeria monocytogenes* in Blue Bell Ice cream outbreak: Misconceptions about dose-response relations, tolerable level of risks (Symposium/Webinar: Bob Buchanan).

Upcoming Meetings:

- SRA 2016: Society for Risk Analysis, December 11–15, 2016, San Diego, California.
- ICPMF10: 10th International Conference on Predictive Modelling in Food, September 26–29, 2017, Cordoba, Spain, www.icpmf10.com.
- IAFP Europe: March 29–31, 2017, Brussels, Belgium.
- Food Micro, September 3–6, 2018, Berlin, Germany.

Recommendations to the Executive Board:

1. Recommend to the Board that Bala Kottapalli be the Vice Chair.
2. Webinars are a great way of promoting food safety to students, the developing world, small and medium enterprises and other interested parties, and also a good marketing tool for IAFP. Currently the recordings are only available for members and the webinars itself freely available if it has as audience PDG members only. The MMRA PDG again had big support to recommend that recordings of MMRA-PDG webinars be made freely available for both IAFP members and non-members. The PDG also recommends that webinars sponsored by the MMRA PDG be freely available to members of other IAFP PDGs. This could contribute largely to advancing food safety worldwide, but also improve marketing for new IAFP members.
3. Recommend the Board consider providing electronic addendum for scientific papers published in *Journal of Food Protection*. Other journals, such as the *SRA Risk Analysis*, *IJFM* and *AEM*, provide such service so providing electronic addendum to *JFP* will stimulate people in this domain to submit more papers.

Next Meeting Date: July 9, 2017, Tampa, Florida.

Meeting Adjourned: 11:03 a.m.

Chairperson: Marcel Zwietering.

Pre Harvest Food Safety PDG

Attendees: Achyut Adhikari, Awa Aidara-Kane, Walid Alali, Jose Aldrete, Raghavendra Amachawadi, Bassam Annous, Ashley Arnold, Christopher Baker, Elaine Berry, Rachel Binet, Patricia Borrusso, Kellie Burris, Zhao Chen, Antonio Cid, Rocelle Clavero, Kristine Clemens, David Cook, Kimberly Cook, Carl

Custer, Thais De Melo Ramos, Govindaraj Dev Kumar, Diane Ducharme, Ruth Eden, Peyman Fatemi, Paula Fedorka-Cray, Angela Marie Ferelli, Francisco Gallardo, John Heller, Shauna Henley, William Huntley, Brynn Husk, Khurram Irshad, Keith Ito, Megan Jacob, Ravi Jadeja, Divya Jaroni, Xiuping Jiang, Shivaramu Keelara Veerappa, Susanne Keller, Connie Kirby, Kalmia Kniel, Eduardo Lecea, Pushpinder Litt, Teressa Lopez, Gabriela Lopez Velasco, Dumitru Macarasin, Kelly McCarty, Thomas McCaskey, Maeli Melotto, Pat Millner, Katie Moore, Steve Moris, Rodney Moxley, TG Nagaraja, Deog-Hwan Oh, Modesto Olanya, Ifeoluwa Olotu, Michele Oostenbrug, Robin Pachuta, Salina Parveen, Jitu Patel, Randall Phebus, Suresh Pillai, Lori Pivarnik, Juan Ponce de Leon, Gale Prince, Mingyu Qiao, Paula Rivadeneira, Joyjit Saha, Angela Shaw, Arlette Shazer, Kevin Sheehan, Xiaorong Shi, Valentin Sierra, Michelle Smith, Insook Son, Tyler Stephens, Mehgan Styke, Aparna Tatavarthy, Siddhartha Thakur, Ellen Thomas, Michael Timmer, Phillip Tocco, Mike Villaneva, Isabel Walls, Jim Wells, Kristin Woods, Shuang Wu, Wenqing Xu, Mustafa Yesil, and Zuoxing Zheng. **Number of Attendees:** 91.

Meeting Called to Order: 9:00 a.m., Sunday, July 31, 2016.

New Business:

- Bassam Annous, Chair, started the meeting by welcoming everyone and introduced Dr. Walid Alali, incoming Vice Chair. Bassam thanked Dr. Divya Jaroni, outgoing Chair, for her services to the PDG, and Dr. Alali for volunteering to serve the PDG. This was followed by welcoming the attendees and introducing themselves. Bassam asked those attendees who have not registered yet to write down their names on the sign-up sheet. Bassam asked attendees to join any PDGs online and/or send an E-mail to the Association with request to join or be removed from PGD mailing list.
- Bassam mentioned that the minutes from the 2015 meeting were E-mailed to all members and were also available online at IAFP Web site. He asked for a motion and second to approve them at this PDG meeting and were approved.
- Dr. Rodney Moxley from University of Nebraska presented "Pre-harvest Research Progress through STEC CAP" (25 minutes presentation). A five-minute question and answer period was followed.
- Kali Kniel, IAFP Executive Board Member, welcomed all and talked about IAFP and PDGs. She mentioned that IAFP is on a successful track and more attendees in this year's meeting compared with last year. About 3,400 attendee and more than 170 exhibitors. Kali encouraged PDG attendee to promote IAFP membership through friends and colleagues, nationally and internationally. Regarding *JFP*, she mentioned that changes to the journal platform are coming. Kali encouraged attendee to consider IAFP journals (*JFP* and *FPT*) when submitting their publications. Moreover, she said that over 150 symposia proposals were submitted and nearly 50% of those were accepted for the 2016 program. She also talked about the decision of the Program Committee to limit the 2017 symposium talks to 30 minutes. Furthermore, a recommendation was made to promote the use of webinars.

- Kali reminded the group of award nominations. The awards' criteria and guidelines are available on IAFFP websites.
- Bassam thanked Kali for IAFFP support and the information provided. He then mentioned that our PDG had seven symposia accepted and presented during last year's meeting (2015), while this year 10 symposia, including roundtables, were accepted. Bassam also made the group aware that non-members of PDGs are allowed to submit proposal for symposia. Bassam encouraged members to collaborate on symposia with members of other PDGs. Bassam mentioned that webinars and presentation at the PDG annual meeting would be another venue for presentations of important subject matter important to the members. Bassam stressed the importance of having three and six speakers per half and full symposium, respectively. This format was approved by the Program Committee and will be enforced.
- Bassam then opened the discussion on symposia topics. He mentioned that the deadline for submitting the proposals for next year's meeting is October 4, 2016. Bassam started the discussion by talking about a number of recommendations that attendees can think of while formulating symposia topics and later proposals. These areas were:
 - Important topics and new challenges in pre-harvest food safety.
 - International perspectives on pre-harvest food safety.
 - Interactive workshops before the Annual Meeting or at other times throughout the year.
 - Creating a webinar and/or a webinar series.
 - Development of booklets or pamphlets.
 - Regular web meetings.
 - Communicating regularly via E-mail or tele-conference.

This was followed by PDG members proposing topics and discussing them.

- Global needs assessment by Paula Cray. The focus is on assessment of needs in developing countries to improve capacity building in collaboration with WHO-FAO. It can be a half symposium with three speakers.
- Water quality and fresh produce safety by Diane Ducharme. The focus is on farm water quality and availability challenges in relation to produce safety nationally and internationally. It can be a half symposium with three speakers.
- FSMA: The devil in the details by Michelle Smith. The goal is to provide details on FSMA on produce and how to get them out to stakeholders. This can be a roundtable.
- Updates on food safety from US Regional Centers by Angela Shaw. The goal is to provide updates on the food safety research and outreach by regional centers in the U.S. This can be a roundtable.
- Complementary forces of mitigation in food safety of global issues: Detection and mitigation by Paula Cray and Megan Jacob. The aim is to better understand the dynamics of bacteria and their

genetic material transfer in addition mitigation strategies. It can be a full symposium with six speakers in two sessions.

- Status of intervention methods in developing countries by Modesto Olanya. The aim is to better understand the intervention methods that work in developing nations in relation to needs assessment. It can be a half symposium with three speakers.
- Soil issues and produce safety. The goal is to understand soil amendments in relation to produce safety. It can be a half symposium with three speakers.
- Fresh produce safety and natural disasters by Wenqing Xu. The goal is to discuss the safety of produce (microbial quality, guidance to stakeholders, and quick response) after events such as flooding. It can be a half-symposium with three speakers.
- Pre-harvest AMR and antibiotic use by John Heller. The aim is to discuss pre-harvest AMR issues and where antibiotic are used in the production chain in produce and other products. It can take a roundtable format.¹
- One of the members, Ruth Eden, mentioned that she started a new Web site (<http://ask-bioexpert.com/>) on food safety to exchange/share information and provide expert opinions on different topics including methodology previously used by other researchers. The website also provides a forum for Q&A. Whomever is interested needs to become a member of the website before participating. She would like people to give her feedback after they visit the website.

Recommendations to the Executive Board

1. Recommend Dr. Walid Alali as the Vice Chair of the PDG.
2. Suggest sending a copy of the finalized symposia topics to the student PDG members so that they also can look at them and have a chance to participate in symposia of interest.

Next Meeting Date: July 9, 2017, Tampa, Florida.

Chairperson: Bassam Annous.

Retail and Foodservice PDG

Attendees: Sultan Al Tahir, Walid Alali, Susan Algeo, Ryan Allarding, Bryan Ames, Michael Ames, Jeff Anderson, Fernando Avelleyra, Thomas Bell, Austin Bernard, Richelle Beverly, Chris Boyles, Tom Bruursema, Frances Buck, David Buckley, Melissa Campbell, Suchart Chaven, LeAnn Chuboff, Jeffrey Clark, Meghan Cox, Phil Crandall, Carl Custer, Christophe Dufour, Jeff Edelen, Ashley Eisenbeiser, Miriam Eisenberg, Jeffrey Farber, Laurie Farmer, Helen Fong, Thomas Ford, Kyle Ganz, Veny Gapud, Donna Garren, Scott Gilliam, Steve Hails, Susan Hammons, Linda Harris, Cory Hedman, Jorge Hernandez, Peter Hibbard, Sanja Ilic, Lee-Ann Jaykus, Marjorie Jones, Jason Khoo, Kasey King, Larry Kohl, Barbara Kowalcyk, Gina Kramer, Robert Kramer, Bobby Krishna, Yale Lary, Brittany Laster, Quanhong Li, David Luedeke, Pancita Manalili, Matthew Markiewicz, Paul Marra, Jeff Mitchell, Jack Neal, James O'Donnell, Daniel Okenu, Robin Pachuta, Amanda Pashenee,

Ruth Petran, Tyler Pigman, Jennifer Quinlan, Glenner Richards, Timothy Rugh, Muhammad Khalid Saeed, Aurora Saulo, Dina Scott, Chris Seeber, Muhammad Shahbaz, Kevin Sheehan, David Shumaker, Shelendra Singh, Kevin Smith, Christopher Spangenberg, Anna Starobin, Todd Taylor, Ellen Thomas, Stephen Tracey, Brian Turner, Jean Valbrun, Isabel Walls, Todd Wegner, William Weichelt, Christina Wilson, Jim Wilson, Michelle Wollenzien, Zhinong Yan, and John Zimmermann. **Number of Attendees:** 92.

Meeting Called to Order: 1:00 p.m., Sunday, July 31, 2016.

Minutes Recording Secretary: Michelle Wollenzien.

Old Business:

- Adoption of 2015 notes: motion to accept Todd Wagner, James O'Donnell.
- 2016 updates GFSI for Retail: Will food establishments buy into GFSI certification not accepted two years in a row. Recommendation is to resubmit – could be quarterly or bi-annual webinar.

Updates:

- Dr. Jaykus representing NoroCORE:
- Survey done on evidence on Norovirus presence in public restrooms.
- CDC colleagues revealed the importance of transmission of food handlers of Norovirus.
- Vomiting study – laboratory scale of human vomiting – looking for aerosolization Norovirus.
- Developing and editing cleaning up vomit and fecal matter procedures – working with CFP for guidelines into the food code.
- Developing phone app for individuals to input symptoms for school age kids.
- **Panel:** Crises Management in the Age of Social Media – Panel: Melissa Campbell (HEB), Jorge Hernandez (Wholesome International), Amy Philpott (Watson Green LLC); Mediator: Jay Neal
- Q&A Topics:
- How organizations navigate through the crisis management.
- How companies protect the brand when the systems break down.
- What the ideal response time is for crisis management.
- Shelf life of an incident and how long it takes to die down.
- Recommendations for small businesses.
- Leaks to the media and misinterpreted communication.
- Requesting additional resources from outside the organization when the internal protocol isn't adequate.

President-Elect Linda Harris welcomed members and provided an update on the Association.

New Business:

- Congratulate Meijer as Black Pearl Award recipient for 2016.
- Session ideas for 2017: Jay – solicit input for ideas not accepted; what do we want to see year round... is it webinars? Frequency of webinars? Easiest way to communicate an emergency? What are the needs of the members? Jay will send out Survey Monkey for input.
- Dr. Suzy Hammon/student member – no longer a student.

Recommendations to the Executive Board:

1. Approval of Tom Ford as Vice Chair.

Next Meeting Date: July 9, 2016, Tampa, Florida. A conference call will be held in September. Jay will send out email for session ideas via conference call.

Meeting Adjourned: 2:50 p.m.

Chairperson: Jay Neal.

Sanitary Equipment and Facility Design PDG

Attendees: Todd Badgley, David Bauer, Thomas Bell, Tom Berry, David Blomquist, Nicolas Braun, Patricia Brown, Greg Burnham, Melissa Campbell, Julie Carver, Erdogan Ceylan, LeAnn Chuboff, Phil Crandall, Mark Davis, Antoinette De Senna, Alejandro Echeverry, Nancy Eggink, Tom England, Michele Evans, Peyman Fatemi, Cristal Garrison, Mike Garrison, Duane Grassmann, Sanjay Gummalla, Allen Haas, Amber Hoskins, Diana Huang, Barbara Hunt, Michael Ionni, Khurram Irshad, Tim Jackson, Thomas Johnson, Rick Kanaby, Ramin Khaksar, Connie Kirby, John Larkin, Yale Lary, Brittany Laster, Martha Maradiaga, John Merenick, Nathan Mirdamadi, Jeff Mitchell, Damian Montoya, Steven Murphy, Virginia Ng, Stephanie Olmsted, Yanying Pan, Aaron Patch, Phyllis Posy, Gale Prince, Tanya Roberts, Timothy Rugh, Aurora Saulo, Kristin Schill, Steven Sims, Debra Smith, Kevin Smith, Anna Starobin, Diana Stewart, Joseph Stout, Quincy Suehr, Trevor Suslow, William Sutton, Jaime Vaca, Angela Valadez, Jean Valbrun, Julie Vantine, Leonel Vera, Stephen Walker, Paul Winniczuk, and Zhinong Yan. **Number of Attendees:** 70.

Meeting Called to Order: 3:15 p.m., Sunday, July 31, 2016.

The IAFP anti-trust statement was read by John Merenick.

Minutes Recording Secretary: John Merenick.

Old Business:

- Approved minutes of the 2015 meeting. Discussed the updates to the Sanitary Design Webpage. New updates to be available soon on website.

New Business:

- Chairperson Edyta Margas was unable to attend IAFP 2016. Previous Chair Robert Hagberg asked to step down due to commitments. John Merenick agreed to Vice Chair Sanitary Equipment and Facility Design PDG and was approved by the IAFP Board.
- Board Member Tim Jackson updated the group from the organization and Executive Board.
- Joe Stout from Commercial Food Sanitation gave a discussion on "Hygienic Design in the FSMA Era." Discussion was based on getting equipment suppliers and processors together to help design sanitary equipment for the produce industry. PDG discussed how we can use this communication between equipment suppliers and processors for other food-based industries.

Recommendations to the Executive Board:

1. PDG would like guidance on how IAFP can bring equipment design concepts globally throughout the world. Different guidance documents for different areas of the world.
2. Approval of John Merenick as Vice Chair.

Next Meeting Date: July 9, 2017, Tampa Florida. A conference call will take place in October 2016.

Meeting Adjourned: 5:10 p.m.

Chairperson: John Merenick (Vice Chair acting as Chair).

Seafood Safety and Quality PDG

Attendees: Jianfa Bai, Yannick Bichot, Jason Bolton, Adam Borger, David Calvin, Franck Chatigny, Laurie Farmer, Aliyar Fouladkhah, Kyle Ganz, Constantin Genigeorgis, Foivos Genigeorgis, Myriam Gutierrez, John Heller, Brian Himelbloom, Aaron Huckabee, Jessica Jones, Rick Kanaby, Amanda King, David Kingsley, Jiang Liang, Hsu-Yang Lin, Michelle Lovett, Barakat Mahmoud, Doug Marshall, Susan McCarthy, Robyn Miranda, Naim Montazeri, Amit Morey, Virginia Ng, Mickey Parish, Salina Parveen, Frederic Pastori, Sophie Pierre, Lori Pivarnik, Kunal Rehani, Forest Reichel, Gary Richards, Angela Ruple, Mansour Samadpour, Lingxiao Shao, Weilin Shelver, Xiaorong Shi, Otto Simmons, Gregory Siragusa, Tori Stivers, Anna Theil-Gangl, Ed Thompson, Peter Trabold, Li Wan, Chun Wang, Luxin Wang, Lisa Weddig, and Jin Xu. **Number of Attendees:** 53.

Meeting Called to Order: 1:00 p.m., Sunday, July 31, 2016.

Minutes Recording Secretary: Forest Reichel.

Old Business:

- Approval of Minutes from the 2015 meeting.

New Business:

- After the call to order, Chairperson Lovett, recapped the Association Bylaws pertaining to appropriate collaboration and the unacceptability of collusion.
- Chairperson Lovett opened the floor to IAFP Board Liaison, Mickey Parish. Dr. Parish began his remarks by expressing gratitude for participation in the PDG and scientific program groups – resulting in part to >150 proposals for consideration last year.
- IAFP continues to grow, experiencing a record attendance year in 2016, with 3,400 attendees and a record number of members at 4,100 individuals. This year's meeting boasts a record number of exhibitors as well at 175. Please support the exhibitors as their efforts and participation often enable continued growth in scientific program quality as well as financial support.
- Dr. Parish recapped the formatting for Symposia – for each 1.5 hour block a total number of three speakers is the established criteria. If the Symposia are three hours in length, it accommodates six 30-minute presentations. There are a number of two-hour symposia scheduled for Wednesday during the Annual Meeting that will accommodate four 30-minute presentations.
- Dr. Parish closed his remarks by offering a thank you for continued participation and a rewarding meeting.
- Dr. Chip Simmons, University of North Carolina, provided a recap on the work that began in 2011 to research human norovirus across the food supply chain and to develop effective control data. This project is spearheaded by Dr. Lee-Ann Jaykus and included over 30 collaborators from academia, industry and government.
- Dr. Simmons spoke about the program in a broader

format and then dialed his comments down specifically to the seafood industry and the research and feedback provided to and supported by stakeholders. The program will be reaching the end of the funding period this year.

- More information on this program is available by following the link on the University of North Carolina website.
- Dr. Simmons responded to questions at the conclusion of his recap.
 - Vice Chair Reichel opened the floor for the nomination of an incoming Vice Chairperson for 2017. Two nominations were received. Nominees were: Foivos Genigeorgis, Acme Smoked Fish Co., Food Safety and R&D Manager, and Dr. Barakat S.M. Mahmoud, Associate Professor, Mississippi State University. A vote by ballot was conducted. Foivos Genigeorgis is elected incoming Vice Chairperson.
 - The floor was then open for discussion and proposals for Symposia platforms for the 2017 Annual Meeting. Suggested symposia topics are as follows:
 - Seafood Fraud's impact on Food Safety, Douglas Marshall, Eurofins Scientific, Inc.
 - Seafood HACCP: After 20 years of Seafood HACCP is seafood any safer? Tori Stivers, University of Georgia. Tori Stivers to develop program.
 - Possible collaboration with HACCP PDG, Food Law PDG.
 - *Vibrio* Contamination – Growing concerns. Continued *Vibrio* issues impact on sustainability and availability of seafood, Dr. Gary P. Richards, USDA, Delaware State University. Jennifer L. Jones, FDA Gulf Coast Seafood Laboratory to develop program.
 - Possible collaboration with HACCP PDG, Water PDG, Pre Harvest PDG.
 - Seafood Fraud – Economically Motivated Hazards, Foreign Supplier verification, and the contrast between Seafood HACCP and FSMA Foreign Supplier Verification programs.
 - Antibiotic Residues in Farmed Seafood, Impact on Supplier Approval. Dr. Naim Montazeri, NC State University.
 - Discussion of the topics followed building upon the depth of and directions each of the proposals might be taken. In addition discussion included building a Seafood safety platform that included webinar segments and roundtable proposals based upon the above topics to support a symposia topic.
 - Also put forward for development was the possibility of a pre-meeting workshop, which could include a fieldtrip based around seafood process and food safety. The location of IAFP 2017 is ideally suitable for this opportunity. This concept will be further developed for consideration by Douglas Marshall, Eurofins.
 - A recap of proposed symposia, next steps and process owners was provided and confirmed by the Vice Chairperson. Contact information was confirmed.
 - A call for any further topics for discussion was made.

Recommendations to the Executive Board:

1. Approve Foivos Genigiorgis as incoming Vice Chairperson to begin serving at IAFFP 2017.

Next Meeting Date: July 9, 2017, Tampa, Florida.

Meeting Adjourned: 2:40 p.m.

Chairperson: Michelle Lovett.

Student PDG

Attendees: Hamada Aboubakr, Jennifer Acuff, Walid Alali, Sarah Allard, Alexander Alles, Jennifer Anders, Ben Anderson, Jean Anderson, Bassam Annous, Elba Arias Rios, Nicole Arnold, Ilan Arvelo, Fatemeh Ataei, Christopher Baker, Takiyah Ball, Stephanie Barnes, Alexandra Belias, Sarah Beno, Elizabeth Beshearse, Richelle Beverly, Sohini Bhatia, Tom Black, David Blomquist, Renee Boyer, Elizabeth Brown, Christine Bruhn, John Bruhn, Alexander Bruner, Sarah Buchholz, David Buckley, Aimee Buechler, Ariel Buehler, Thomas Burke, Abigail Burrows, Shiyu Cai, Loan Cao, Wanying Cao, Thomas Carlisle, Joanna Carroll, Kaitlyn Casulli, Benjamin Chapman, Byron Chaves, Jessica Chen, Jeffrey Clark, Cristiana Cooper, Sarah Cope, Shani Craighead, Megan Daniels, Michelle Danyluk, Thais De Melo Ramos, James De Souza, Vaishali Dharmarha, John Di Stefano, Yiran Ding, Diane Ducharme, Edward Dudley, Evann Dufort, Minh Duong, Bertrand Emond, Tom England, Andrea English, Sarah Engstrom, Jeremy Faircloth, Justin Falardeau, Ying Fan, Yaohua Feng, Angela Marie Ferelli, Anthony Flood, Nicholas Forshee, Jeron Freiburger, Kirtiraj Gaikwad, Fanding Gao, Francisco Garces-Vega, Samantha Gartley, Dibash Gautam, Jessica Gavell, Catherine Gensler, Kathy Glass, Chase Golden, Margaret Good, MiKayla Goodman, Stephen Grove, Ryann Gustafson, Shakaree Hale, Paul Hall, Susan Hammons, Dong Han, Alexandre Hanley, Maureen Hanley, Keelyn Hanlon, Linda Harris, Daniel Hauerperger, Ian Hildebrandt, Kirsten Hirneisen, Abigail Horn, Lisa Hovey, Lauren Hudson, Brandee Hunter, Aisha Inuwa, Timothy Jackson, Lee-Ann Jaykus, Katie Jenkins, Jiin Jung, Kathryn Kay, Peter Kennedy, Margaret Kirchner, Kalmia Kniel, Bianca Koerfer, Sarah Kozak, Matthew Krug, Soon Kiat Lau, Colette Le Bienvenu, Alvin Lee, Sean Leighton, Paige LeMaster, Wan Mei Leong, Emma Lepri, Jiaqi Li, Quanhong Li, Katie Liang, Pichamon Limcharoenchat, Marie Limoges, Caitlinn Lineback, Pushpinder Litt, Shuxiang Liu, Janaina Lopes, Antonio Lourenco, Luyao Ma, Zachary Marsh, Alice Maserati, Kelly McCarty, Ashley McCoy, Kathryn McCullough, Indaue Mello, Jose Mendoza, Kathryn Metzger, Rachel Miller, Robyn Miranda, Matthew Moore, Mark Moorman, Valerie Morrill, Michael Naeger, Joshua Nazareth, Kira Newman, Thabile Nkambule, Deog-Hwan Oh, Moustapha Oke, Rubia Olivo, Ifeoluwa Olotu, Katelyn Ortega, Juan Ortuzar, Janie Outlaw, Katie Overbey, Suyapa Padilla Antunez, YounSeo Park, Rachel Pfuntner, Randall Phebus, Katherine Phetxumphou, Hannah Pilch, John Porter, Molly Powell, Christopher Powers, Jessica Prince-Guerra, Natalie Pulido, Mingyu Qiao, Alejandra Ramirez, Erin Raver, Andrea Ray, Tian Ren, Juliany Rivera Calo, Tanya Roberts, Danielle Robocon, Luis Sabilln, Paula Safko, Joyjit Saha, Nitya Sarjapuram, Katie Satchwell, Kori Scherer, Marcel Schmidt, Carla Schwan, Judy Sebastian, Chris Seeber, Nicholas Severt, Natalie Seymour, Muhammad Shahbaz, Lingxiao Shao, Manan Sharma, Shima Shayanfar, Adrienne Shearer, Ellen Simmons, Avery Smith, Haley Smolinski, Patrick Spaninger, Loutrina Staley, Michelle Stark, Philip Steinbrunner, Carolyn Steiner, Tori Stivers, Jarret Stopforth, Laura Strawn, Zhanqiang Su, Quincy Suehr, Ajita Sundarram, June Teichmann, Laura Truitt, Angela Valadez, Deklin Veenhuizen, Mariana Villarreal-

Silva, Isabel Walls, Danhui Wang, Xinyao Wei, Daniel Weller, Wendy White, Frances Widjaja, Amanda Wilder, Darrel Williams, Gracia Windiasti, Autumn Woods, Shuang Wu, Lingzi Xiaoli, Lily Yang, Xun Yang, Mary Yavelak, Mustafa Yesil, Lei Zhang, Samson Zhilyaev, Donald Zink, and Claire Zoellner. **Number of Attendees:** 228.

Meeting Called to Order: 1:00 pm, Sunday, July 31, 2016.

Minutes Recording Secretary: Margaret Kirchner.

Old Business:

- Presentation of the Outgoing Officers.

New Business:

- New officers were introduced and the guest speaker, Dr. Edward Dudley, spoke to the group about his life path and advice to students. Nicole greeted everyone and talked about the events and symposia that The Student PDG sponsors/holds throughout IAFFP. These are the unofficial pre-event, the Student Mixer, T-shirt sales, RT7 I Got An Advanced Degree, Now What, S34 Crowdsourcing and Novel Digital Data: 21st Century Tools for Food Safety Monitoring, Surveillance, and Management, S39 A Map to a Safer Future: Applications of Geographic Information Systems and Remote Sensing for Food Safety, S33 Food Safety 2050: A Glimpse into the Future, and S40 "If I can't pronounce it, I'm not eating it!" How Consumer Perceptions are Changing the Face of the Food Industry. She spoke of The Lab and encouraged students to participate in the selfie event as well as volunteer as a student blogger. Nicole and Lily both encouraged students to attend other PDG meetings and let them know we are open to collaboration.
- Nicole then led the PDG in brainstorming ideas for symposia and roundtable topics for next year's meeting. Some of these included the safety of dumpster diving, the interaction of food, environmental, and local laws. These ideas were recorded on a flipchart and put into a separate document. Stephanie concluded the meeting by asking students if anyone was interested in serving as student liaisons for the Food Defense and Food Law PDGs.

Recommendations to the Executive Board:

1. We thank the Executive Board for providing the students a space within the exhibit hall and recommend that you continue this in the coming year.

Next Meeting Date: July 9, 2017, Tampa, Florida.

Meeting Adjourned: 1:30 p.m.

Chairperson: Nicole Arnold.

Viral and Parasitic Foodborne Diseases PDG

Attendees: Douglas Abbott, Hamada Aboubakr, Abdullah Alalyami, Mohammed Alangari, Yousef Alhussain, Abdullatif AlNasser, Pablo Alvarez, Christoph Bahrtdt, Daniel Barket, Peter Ben Embarek, Roy Betts, Sarah Buchholz, David Buckley, Catharine Carlin, Franck Chatigny, Changsun Choi, Shani Craighead, Ashley Cunningham, Alexandre Da Silva, Martin D'Agostino, Greg Danzeisen, Nancy Dobmeier, Katja Dohrendorf, Michael Doyle, Martin Duplessis, Blanca Escudero-

Abarca, Laurie Farmer, Aliyar Fouladkhah, Samantha Gartley, Kristen Gibson, Gopal Gopinath, Stephen Grove, Jack Guzewich, Jessica Hofstetter, Diana Huang, Tim Jackson, Lee-Ann Jaykus, Julie Jean, Tineke Jones, Carlos Juarez, Karim Khinouché, David Kingsley, Michael Kulka, Alvin Lee, Juan Leon, Pushpinder Litt, Zachary Marsh, Thomas McCaskey, Naim Montazeri, Maria Morales, Maria Fernanda Morales, Helen Murphy, Kira Newman, Efstathia Papafragkou, Geun Woo Park, Amy Parks, Suresh Pillai, Molly Powell, Jessica Prince-Guerra, Gary Richards, Marc Scantlin, Arlette Shazer, Adrienne Shearer, Otto Simmons, Anna Starobin, Valeria Torok, Scott Troppy, Alexander Vermont, Qihong Wang, Amy Woron, Vivian Wu, Mu Ye, and Qiuchen Zhang. **Number of Attendees:** 73.

Meeting Called to Order: 9:04 a.m., Sunday, July 31, 2016.

Minutes Recording Secretary: Efstathia Papafragkou.

Welcome and Introduction: David Kingsley, PDG Chair.

Report from IAFP Executive Board: Tim Jackson (Nestlé) gave an update from the Executive Board, reporting on strong attendance and asking for means to expand international food safety collaborators.

Old Business:

- The PDG was reminded that the minutes of the 2015 PDG meeting are located on the IAFP website for review and no recommendations were made to the Board last year.

New Business:

- Lee-Ann Jaykus, North Carolina State University, presented on NoroCORE, introduction of the project, updates on the cores of the project, inactivation strategies, food handler contribution and vomit as a significant way of transmission.
- Alex D'Silva: Foodborne parasitology, challenges, re-occurring outbreaks with *Cyclospora* in cilantro, updates on regulatory and scientific approaches. Harmonization/coordination of method application for molecular epi (clinical and environmental samples) in the U.S. and internationally.

Next Meeting Date: July 9, 2016, Tampa, Florida.

Chairperson: David Kingsley.

Water Quality and Safety PDG

Attendees: Achyut Adhikari, Sultan Al Tahir, Jose Aldrete, Yannick Bichot, Michael Brodsky, Tom Bruursema, Mark Carkhuff, Thomas Carlisle, Antonio Cid, Daniel Demarco, Erik Glemser, Luz Gutierrez, Linda Harris, Christina Harzman, Diana Huang, Brandee Hunter, Soojin Jun, Rebecca Kirkpatrick, Sharan Lanini, Teressa Lopez, Rachel McEgan, Sherri McGarry, Susan McKnight, Maritza Merino, Carola Monsalve, Mark Moorman, Charles Muyanja, Donna Pahl, Frederic Pastori, Regina Petrasch, Juan Ponce de Leon, Phyllis Posy, Marcos Sanchez-Plata, Chris Seeber, Adrienne Shearer, Valentin Sierra, Otto Simmons, Marianna Solorio, Don Stoeckel, Leonel Vera, Pierre Woehl, Katherine Woodward, Dorothy Wrigley, Ying Xu, and Yue Zheng. **Number of Attendees:** 45.

Meeting Called to Order: 9:10 a.m., Sunday, July 31, 2016.

Minutes Recording Secretary: Thomas Carlisle.

Welcome and Introductions: PDG Chair Dorothy Wrigley, Minnesota State University, Mankato.

Report from IAFP Executive Board: Linda Harris.

Old Business:

- Reviewed Rules for a PDG meeting: What we can and cannot do (Committee Handbook online link) <http://www.foodprotection.org/about-us/committee-professional-development-groups/>) and approved the 2015 Minutes.
- Announcement of symposium: Approaches to Safe Use of Irrigation and Wash Water in the Face of Increased Global Water Shortages, Wednesday, August 3, 10:30-12:00).
- Reviewed the 2015 Board Response to Recommendations and Actions.

New Business:

- Held Vice Chair election; Phyllis Posy elected. She will search for a Chair if she cannot do it next year.
 - a. Phyllis Posy: Between RTCR and FSMA: Gaps between the two
 - i. Discussion on: New total coliform rule, other organisms not being covered, differences between EPA and FSMA rules.
 - ii. Symposium ideas: Need for discussion of different perspectives from regulators, Survey of current industry knowledge, Ideas to develop this into a symposium / roundtable proposal, private vs public water issues, non-microbiological issues, actionable steps, symposium followed by roundtable.
 - iii. Contact Phyllis to work on this submission.
 - b. Update on Norcor: Chip Simmons.
 - c. Alternative irrigation water source: coordinator.
 - d. Webinar Suggestions: Water reuse issues: Peter Kennedy.

Recommendations to the Executive Board:

1. Consider alternative times for some PDG meetings to minimize conflicting times. Some suggestions: lunch meetings, early morning, evening (before exhibit hall reception).
2. Publish or republish descriptions of areas covered by PDGs. Get updated areas of focus.
3. Approve Phyllis Posy as Vice Chair.

Next Meeting: July 9, 2017, Tampa Florida.

Meeting Adjourned: 10:45 a.m.

Chairperson: Dorothy Wrigley.

TASK FORCE

Webinar Task Force

Members Present: Don Shaffner, P.C. Vasavada, Doug Marshall, Gary Acuff, Wendy White, and Manpreet Singh.

Number of Attendees: 7.

Board Present: Linda Harris.

Meeting Called to Order: 10:00 a.m., Sunday, July 31, 2016.

New Business:

Linda Harris provided an update on attendance, exhibitors and the plans of the IAFP Board for the Webinar Committee. We were informed about the conversion of the Webinar Task Force to become a Committee as of the 2016 Annual Meeting. Discussion was focused around the following:

1. About change of structure from converting from a task force to a Committee, we have discussed expanding/altering the Committee to have representation from industry, academia, and government.
2. Workshops throughout the year: promote workshops and other ideas throughout the year. Committee much more focused on the outreach, workshops, extension and additional IAFP activities.
3. Series of educational programs as prerequisites for FSMA training.
4. Non-selected workshops and other symposia need to be encouraged for webinars.
5. Communicate with the Committee about webinars.
6. How to put on a successful webinar.
7. IAFP sponsored workshops outside of the IAFP's Annual Meeting.

8. At least one person from the Committee serves as a liaison with the Program Committee.
9. Communication with the Affiliates.
10. Leverage IAFP to organize the workshops at international meetings.
11. Potentially provide honorariums for instructors putting on a workshop.
12. Recommend that people rotating off the Program Committee become a part of this Committee or use this Committee as a stepping stone for the Program Committee.
13. PDGs should submit webinar and workshop topics.
14. Divide the Committee members to go into PDGs and promote webinars, etc.
15. Long term task: foundational webinars on food safety.
16. How to write a successful workshop proposal or a symposium proposal for the IAFP program (helpful hints).
17. Reach out to the outreach and extension PDG chair.
18. Most cited paper – webinar (plan ahead of time and set up the webinar); work with the authors from the most cited paper and encourage them to do a webinar on the paper.
19. Ask the editor for recommendations for papers and then organize webinars.

Recommendations to the Executive Board:

1. We recommend the name of this newly approved Committee be changed to the Webinar and Workshop Committee.

Next Meeting Date: July 9, 2017, Tampa, Florida.

Chairperson: Manpreet Singh.

AFFILIATE COUNCIL MINUTES

IAFP 2016 – Sunday, July 31 St. Louis, Missouri

Affiliate Delegates Present:

North America

Alabama	Neil Bogart
Arkansas	Peggy Cook
Capital	Jenny Scott
Chinese NA	Zachary Zheng
Florida	Peter Hibbard
Georgia	Tori Stivers
Idaho	Patrick Guzzle
Missouri	James O'Donnell
New Jersey	Susan Algeo
New York	Steve Murphy
Ohio	Christina Wilson
Oklahoma	Li Maria Ma
Ontario	Moustapha Oke
Pennsylvania	Peggy Good
Quebec	Julie Jean
Texas	Alex Castillo
Washington	Stephanie Olmsted
Wisconsin	Michael Schoenherr

International

Africa	Peter Kennedy
Argentina	Fabiana Guglielmo
Australia	Sandy Hume
Colombia	Janeth Luna
Hong Kong	Terence Lau
Korea	Kun-Ho Seo
New Zealand	Roger Cook
Southeast Asia	Hyun-Gyun Yuk
Taiwan	Chai-Yang Chen
United Arab Emirates	Bobby Krishna
United Kingdom	David Lloyd

IAFP Board and Staff Present: Alejandro Mazzotta, Linda Harris, Mickey Parish, Tim Jackson, Don Zink, David Tharp, Lisa Hovey and Susan Smith.

Visitors/Guests: Elba Arias (TX), Karen Beers (AR), Dave Blomquist (MN), Adam Borger (WI), Carl Custer (Capital Area), Justin Falardeau (British Columbia), T.J. Fu (CAFPNA), Anne Gerardi (France), Nancy Gushing (AR), Xiuping Jing (Carolinas), Ai Kataoka (Capital Area), Peter Kennedy (Africa), Muhammad Khalid (Dubai), Young-Ji Kim (Korea), Charles Muyanja (Africa), Chris O'Kolo (TX), Amy Rhodes (NY), Lee-Yan Sheen (Taiwan), David Shelep (Southern California), Shelendra Sinan (Dubai), Gloria Swick-Brown (OH), Helen Taylor (UK), Brian Umberson (AR), P.C. Vasavada (Indian NA), Luxin Wang (Chinese in NA), Hua Wang (Capital), Pamela Wilger (MN), and Su Zhanqiang (OH).

Meeting Called to Order: 7:08 a.m., Sunday, July 31, 2016.

Recording Secretary of Minutes: Neil Bogart.

Agenda: The agenda was reviewed and unanimously approved.

Delegate Roll Call: Conducted at 7:10 a.m. by Susan Smith.

Review of Minutes 2015: Minutes as published in *FPT* from the 2015 Affiliate Council Meeting were approved and seconded.

Report from Affiliate Chairperson: Christina Wilson provided the following updates:

1. Recognition of new Affiliate: Oklahoma Association for Food Protection
2. Affiliates with milestone anniversaries were recognized:
 - a. Washington: 65 years
 - b. Colombia: 40 years
 - c. Taiwan: 5 years

Report from IAFP President: Alejandro Mazzotta updated the Affiliate Council Meeting attendees with the status of IAFP. He stressed the all-around record year and asked for more award nominations.

Report from IAFP Executive Director: David Tharp welcomed the Delegates to St. Louis and IAFP 2016. He stressed:

1. Increase of roughly 200 participants to Annual Meeting.
2. Increase in exhibitors.
3. As an investment in the future, changes will be made to *JFP's* online format.
4. IAFP is in very good financial condition.

Report from IAFP Staff Liaison: Susan Smith reported the following: IAFP had 40 of 52 (76%) active Affiliates file an Annual Report, down (3%) from 2015. All Affiliates need to comply with IAFP Bylaws by submitting an Annual Report. Additionally, all Affiliates are encouraged to submit for awards. This year we had 10 submitted, up from 7 in 2015. However, you cannot win if you do not apply. Submit bound copies for awards. Delegates and Presidents are required to be IAFP Members to meet compliance. If you create a new website, let Susan know. If you have a Web site, you need to keep it up to date; recommend updating at a minimum of twice a year. Take advantage of meeting materials, membership certificate, and the IAFP slide show. We would like to start the *Bio-Brief* back up in the *Affiliate View*. Please submit briefs on individuals in your Affiliate who you would like

to be noticed. We would also like to start the *Affiliate World View* back up in the *Affiliate View*. Please submit briefs on your International Affiliate if you would like to be noticed. We had a new charter in 2016: Oklahoma; however, we also lost Kentucky.

Affiliate Web sites: Neil Bogart presented a template option on building websites, *SquareSpace*. It will be further reviewed in the next *Affiliate View*.

Roundtable Discussion: Fifteen minutes were devoted to the roundtable discussions. There were two topics split among the tables. One person from each table briefly relayed their respective topic and group's discussion to the entire group as summarized below:

- (A) How to get universities more involved with your Affiliate:

Peter Hibbard: Have academia on the Board; Make visits to the food science programs; Scholarships; Get involved with high school science fairs.

Justin Falardeau: Local Affiliates should provide a liaison to their local colleges, which promotes jobs and may help bring more students to meetings; Scholarships; Have your local affiliate meetings in central locations.

Pam Wilger: Get professors involved; Mentoring; Contests; Invite previous award winners back to the meeting to give update on their career.

Susan Algeo: Timing of meetings; Mentor program; Scholarships.

Peggy Good: Expanding your topics to make relevant.

- (B) How to get students more involved with your Affiliate:

Tori Stivers: Job Fairs; Mentoring; Student poster competition; Scholarships; Get professors involved; Have students present their research at annual meetings.

Roger Cook: Ask student PDG what they are looking for; Will help with succession planning; Bring fresh view on modern science; Can help in developing social media; Recruiting students – Food protection needs to be added to curriculum and an Affiliate should act as a liaison between business and college; Each Affiliate should bring one student to IAFP Annual meeting

James O'Donnell: Add a student to the Affiliate Board; YouTube videos; Develop a mentoring program; Develop scholarships.

Charles Muanja: Avenues for internships; Scholarships; Encourage students to attend Annual Meeting.

T.J. Fu: What do the students want: Knowledge, networking and recognition. How can they help: Student Chair participation on the Executive Board; Media.

Election of Affiliate Council Secretary: Christina Wilson announced that Alex Castillo, Delegate from Texas, was willing to stand for election, and asked if there were any nominations from the floor. Having no additional nominations, the nomination was moved and seconded to elect Alex, who was voted by acclamation.

Presentation of the Affiliate Awards: Christina highlighted the achievements of the award winners and presented the 2016 Affiliate Awards to the following:

Affiliate Membership Achievement – Southeast Asia Association for Food Protection.

Affiliate Communication Materials – New York State Association for Food Protection.

Affiliate Member Education – New York State Association for Food Protection.

Best Affiliate Overall Meeting: Alabama Association for Food Protection.

Florida State Association for Food Protection received the C.B. Shogren Memorial Award, which will be presented at the Awards Banquet on Wednesday, August 3, 2016.

Old Business: Christina Wilson asked if there were any questions or concerns on the response of the Executive Board to the Affiliates IAFP recommendations. There were no changes. The recommendations were approved and seconded.

New Business: Christina Wilson announced the death of Dr. Marcelo Masana, Vice President of the Argentine Food Safety Commission.

Affiliate Reports: Delegates/Representatives gave two-minute oral summaries of their respective Affiliate activities for the 2015 year. Reports included the number of active members, number of general membership meetings hosted in 2015, biggest challenges, biggest successes, and topics of interest to other Affiliates.

Final Comments: Christina gave thanks to all Affiliates and the IAFP Staff.

Passing of the Gavel: Chairperson Christina Wilson passed the gavel to Neil Bogart, signifying the beginning of Neil's term as Affiliate Council Chair.

Next Meet Date: July 9, 2017, Tampa, Florida.

Meeting Adjourned: 10:07 a.m.

Chairperson: Christina Wilson.